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PORFLOW 6.42.9 Testing and Verification Document

Tad S. Whiteside

June 2018

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Executive Summary

This report is a continuation of the series of PORFLOW QA documents including (Aleman, 2007; Whiteside, 2007, 2008, 2010a,c,b, 2016b,a, 2017a,b). In this report we have updated the test cases where necessary to account for new features in PORFLOW and to ensure those features perform as described in the documentation.

The same section numbering as described in (Aleman, 2007) is utilized to make referencing the original test cases simpler.

The differences between the PORFLOW and the analytical solution are typically due to problem definition, boundary condition errors, or limitations of the calculation of the analytical solution. In problem 5.3 cases A–C, the implementation of the analytical solution for the 4-parameter dispersivities is not complete, so differences are to be expected.

The only difference between PORFLOW versions 6.42.5 and 6.42.9 is now PORFLOW can optionally save HISTory data in a binary format. This format can be read and compared to the original ASCII output. This is shown in problem 7.5.

The QA tests confirm PORFLOW version 6.42.9 on 64-bit Linux meets the needs of the SRNL Environmental Restoration Technology group for modeling applications at the Savannah River Site.

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List of Abbreviations

DOE Department of Energy

PA Performance Assessment

QA Quality Assurance

RMSD Root-Mean-Square Deviation

SRNL Savannah River National Laboratory

SRNS Savannah River Nuclear Solutions

SRS Savannah River Site

1 Objective

This document examines the output from the PORFLOW modeling code with respect to known groundwater flow and transport problems in order to ensure PORFLOW performs according to its documentation and that its performance meets the needs of the tank, vault closure, and groundwater modeling applications at the Savannah River Site.

The test cases described in this document are mostly based on groundwater flow and transport problems with known analytical solutions. Where an analytical solution is not available, a code-to-code comparison has been done with the COMSOL Multiphysics code (COMSOL, 2006).

2 Software Description

PORFLOW is a commercially developed computer code for use in simulating groundwater flow and contaminant transport in the vadose zone and underlying aquifers. PORFLOW is used in many modeling applications at the Savannah River Site, including work for Solid Waste (e.g., waste disposal in Saltstone, Components in Grout, Low Activity Waste Vaults, etc.) and High-Level Waste Tank Closures. The results from PORFLOW calculations form a basis of support for many types of analyses, such as the Composite Analysis or the Performance Assessment, which are used to comply with DOE Orders and environmental regulations. Therefore, PORFLOW is classified as Level C software, see (Butcher, 2013) for complete details.

This document compares 64-bit PORFLOW version 6.42.5 to 64-bit PORFLOW version 6.42.9 on the Linux operating system: Red Hat Enterprise Linux Workstation release 6.9 (Santiago) using the problems described in (Aleman, 2007; Aleman and Flach, 2010; Whiteside, 2007, 2008, 2010a,c,b, 2016b,a, 2017a,b). This document is the latest in the series of QA documentation that originated with (Aleman, 2007) and includes new test cases to test new features and corrects typos and errors found in prior QA tests.

3 Method and Scope for Test Problems

A collection of shell scripts, Perl, and Python programs were developed to run the test problems in this report. The same PORFLOW input file was used to run each version of PORFLOW. The computed results were compared to the analytical solution (or equivalent results produced by another modeling code) and to each other. This comparison was done using the root-mean-square deviation (RMSD). The RMSD value is the average deviation of each PORFLOW-computed result from the result generated by the analytical equation or prior version of PORFLOW. These results are reported as a Figure or Table within the section of this document describing the problem.

The PORFLOW input files (code listings) for each test case are included in Appendix A. The tables of output for each test case are included in Appendix B. The code used for the analytical equations is included in Appendix C.

To run the QA program (from Linux):

1. Log on to the SRNL HPC
2. Change to the directory: `/hpc/project/projwork22/porflow_qa/porflow_qa`
3. Type `chk_porflow.sh`
4. Type either `./run_bench.sh` or `./run_bench.sh porflow` or `./run_bench.sh noporflow`
5. `./compare_bench.sh version`

The `chk_porflow` program:

1. asks the user to chose a PORFLOW version and system type (linux or windows)
2. calculates the `md5sum` for each PORFLOW executable of the specified type found in the SRNL HPC application directory (the official location of the executables)
3. compares those MD5 values and reports any differences
4. prints out the MD5 values
5. checks the PORFLOW communicates with the license server and runs from all types of compute nodes

The MD5 hash, Listing 1, is a checksum that functions as a digital fingerprint of a file, where it is very unlikely any two non-identical files will have the same MD5 hash.

Listing 1: MD5sum of PORFLOW Executables

```
All MD5SUMs are the same
34b73a868bbae5ca22c8afef79171244
```

The license server test checks if PORFLOW will run on "skink", "anolis", and "SRNL-HPC" systems. The "skink" and "SRNL-HPC" tests can be run from the same host-node, e.g. "skink4", "SRNL-HPC" tests must be run from "skink4". The "anolis" test has to be run from an "anolis" machine.

The `run_bench` program gets the analytical results and results from the PORFLOW output, compares them and creates the output files. The `porflow` option of this command executes the PORFLOW program using the defined input file. Without the `porflow` option, the program uses previous results calculated by PORFLOW. With the `noporflow` option, the program just computes the analytical solution. The `compare_bench.sh version` program compares the output of different versions of PORFLOW, on the same operating system.

This version of the QA process uses the raw output from PORFLOW (from the `*.SAV` or `*.HIS` or `FLUX.OUT` files), which differs from prior QA efforts which depended on multiple external programs to parse and analyze the results. It also implements more analytical solutions, reducing the need to compare the results to those calculated by other programs, such as COMSOL. This effort has increased the speed of analysis, increased the clarity of what the programs are doing, and made the QA process more amenable to adding additional test cases.

The test problems were created based on available analytical solutions (or code-to-code comparisons) that definitively establish the code accuracy and the resulting impact of mesh and control parameter settings on the accuracy of results. Four groups of test problems are used to verify the capability of the software to represent the physical phenomena characteristic of groundwater flow and transport applications at the Savannah River Site.

The groups of problems are:

Group 1: Saturated and variably saturated groundwater flow (steady-state and transient conditions)

Group 2: Contaminant transport in one, two and three dimensions (transient conditions)

Group 3: Dispersion

Group 4: Keyword Commands

Group 5: System

4 Group 1: Groundwater Flow Problems

4.1 Steady-state, one-dimensional flow in a confined aquifer

Figure 4.1.1 illustrates two confined aquifers experiencing steady, one-dimensional flow. These test cases are designed to confirm correct implementation of the general head (Problem 1) and river bed (Problem 2) boundary conditions. The problem-specific values are defined within the figure and were chosen to provide an analytical solution.

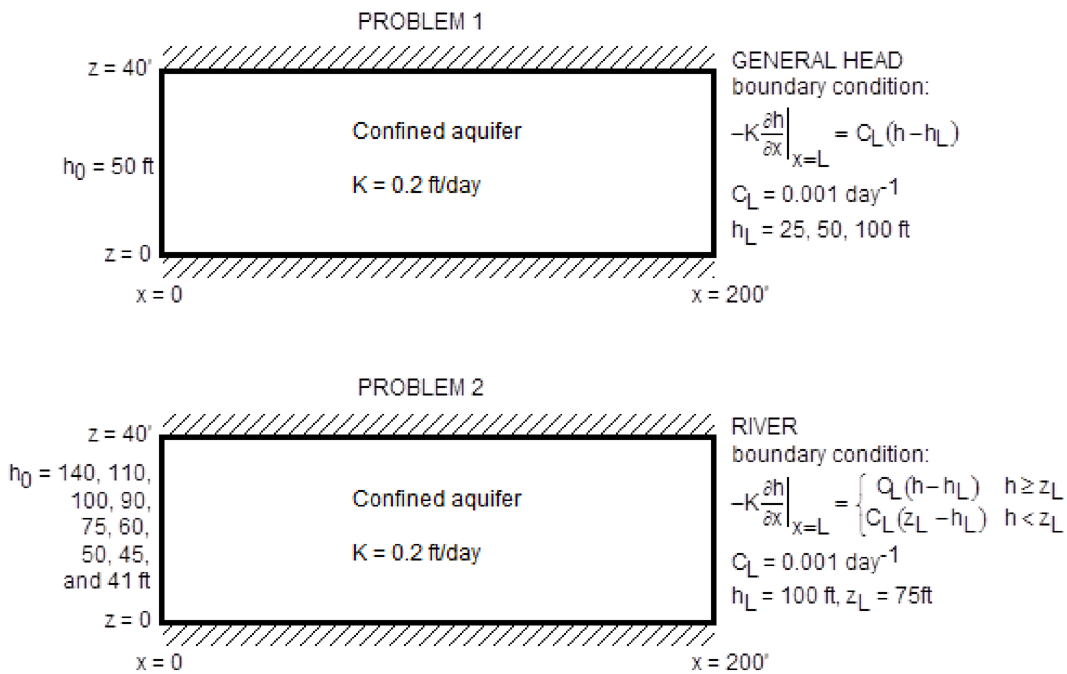

Figure 4.1.1: Schematic diagram of a confined aquifer with a Constant Head boundary condition at x = 0 ft and a General Head (top) or River (bottom) Boundary Condition at x = 200 ft.

Invoking the Dupuit assumption, the following governing equation can be developed for a confined aquifer (de Marsily, 1986, Eq 5.3.11)

$$\nabla^2 h = \frac{\partial^2 h}{\partial x^2} + \frac{\partial^2 h}{\partial y^2} = \frac{S}{T}\frac{\partial h}{\partial t} + \frac{Q}{T} \tag{4.1.1}$$

where h is the hydraulic head, $[L]$; S is the storage coefficient of a confined aquifer; T is the transmissivity of the aquifer, $[L^2/T]$; and Q is the volumetric flow rate per unit surface area withdrawn from the aquifer, $[L/T]$.

For constant aquifer thickness, constant properties, and one dimensional steady flow with no recharge, Equation (4.1.1) becomes

$$\frac{\partial^2 h}{\partial x^2} = 0 \tag{4.1.2}$$

4.1.1 General Head boundary conditions

For the General Head boundary conditions,

$$h = h_0 \qquad \text{at } x = 0 \tag{4.1.3a}$$

$$-K \left.\frac{\partial h}{\partial x}\right|_{x=L} = C_L(h - h_L) \qquad \text{at } x = L \tag{4.1.3b}$$

the analytical solution, derived using direct integration, results in

$$h = h_0 + \frac{h_L - h_0}{1 + \frac{K}{C_L L}} \frac{x}{L} \tag{4.1.4}$$

Listings 2 to 4 show the PORFLOW input files for this problem. Using the values shown in Figure 4.1.1: $h_0 = 50$ ft, $K = 0.2$ ft/day, $L = 200$ ft, $C_L = 0.001$ day^{-1}, Figures 4.1.2 to 4.1.4 show the calculated hydraulic head versus distance at a h_L value of 25 ft, 50 ft, and 100 ft, respectively. The exact values are shown in Tables B.4.1 to B.4.3.

The PORFLOW values are in excellent agreement with the analytical solution. There are no differences in the results between PORFLOW versions.

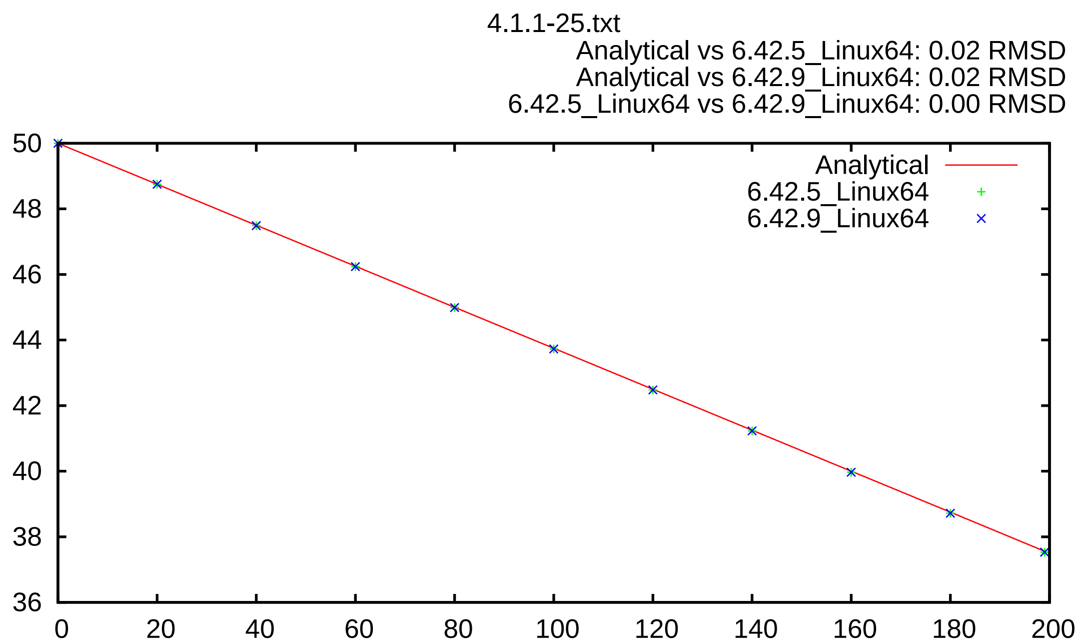

Figure 4.1.2: Hydraulic head versus distance at $h_L = 25$ ft

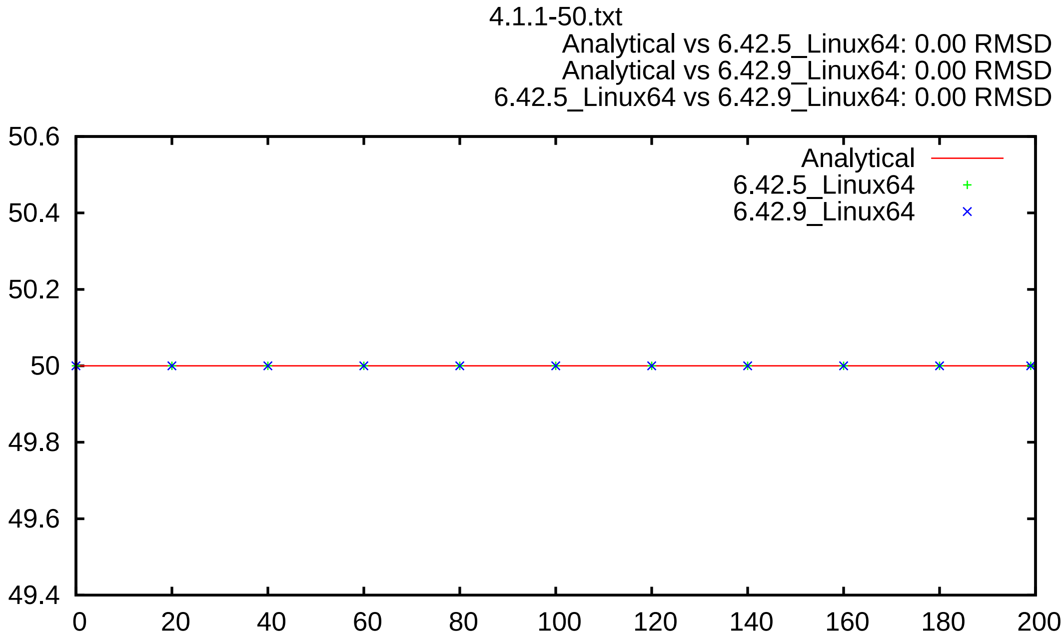

Figure 4.1.3: Hydraulic head versus distance at $h_L = 50$ ft

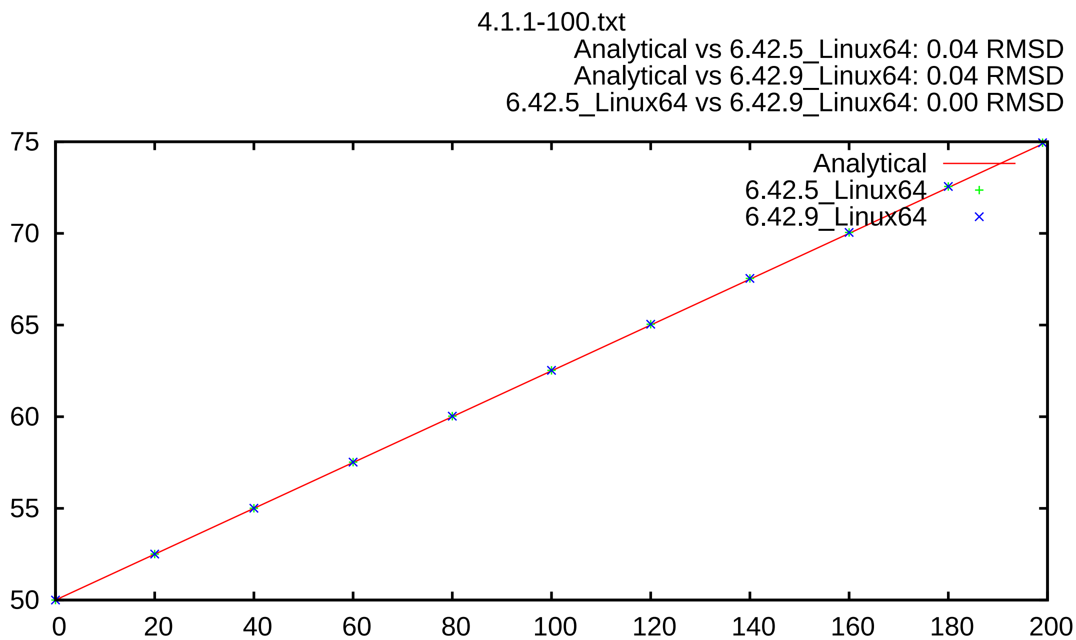

Figure 4.1.4: Hydraulic head versus distance at $h_L = 100$ ft

4.1.2 River Bed boundary conditions

For the River Bed boundary conditions,

$$h = h_0 \qquad \text{at } x = 0 \tag{4.1.5a}$$

$$U_x = -K \left.\frac{\partial h}{\partial x}\right|_{x=L} = \begin{cases} C_L(h - h_L) & h \geq z_L \\ C_L(z_L - h_L) & h < z_L \end{cases} \qquad \text{at } x = L \tag{4.1.5b}$$

the analytical solution, derived using direct integration, results in

$$h = \begin{cases} h_0 + \dfrac{h_L - h_0}{1 + \dfrac{K}{C_L L}} \dfrac{x}{L} & h \geq z_L \\ h_0 + C_L(h_L - z_L)\dfrac{x}{K} & h < z_L \end{cases} \tag{4.1.6}$$

Listings 5 to 13 show the PORFLOW input files for this problem. Table 4.1.2 shows the calculated hydraulic head and Table 4.1.1 shows the Darcy velocity from PORFLOW and analytical solution at $h_L = 100ft$, $z_L = 75ft$, and h_0 values of 41, 45, 50, 60, 75, 90, 100, 110, 140 ft. The exact values are shown in Tables B.4.4 to B.4.12 and in Tables B.4.13 to B.4.21.

The PORFLOW values are in excellent agreement with the analytical solution.

There are no differences in the results between PORFLOW versions.

Table 4.1.1: Comparison of the Analytical results for U_x(ft/day) to the PORFLOW results for problem 4.1.2 at $x = 200$.

h_0	*Analytical*	$P_{6.42.5}$	$P_{6.42.9}$
140	0.0200	0.0200	0.0200
110	0.0050	0.0050	0.0050
100	0.0000	-0.0000	-0.0000
90	-0.0050	-0.0050	-0.0050
75	-0.0125	-0.0125	-0.0125
60	-0.0200	-0.0200	-0.0200
50	-0.0250	-0.0250	-0.0250
45	-0.0250	-0.0250	-0.0250
41	-0.0250	-0.0250	-0.0250

Table 4.1.2: Comparison of the Analytical results for h_x to the PORFLOW results for problem 4.1.2 at $x = 200$.

h_0	*Analytical*	$P_{6.42.5}$	$P_{6.42.9}$
140	120.0	120.0	120.0
110	105.0	105.0	105.0
100	100.0	100.0	100.0
90	95.0	95.0	95.0
75	87.5	87.5	87.5
60	80.0	80.0	80.0
50	75.0	75.0	75.0
45	70.0	70.0	70.0
41	66.0	66.0	66.0

4.2 Steady-state, one-dimensional flow in an unconfined aquifer

Figures 4.2.1 and 4.2.2 illustrate two unconfined aquifers experiencing steady, one-dimensional flow without and with recharge, respectively. The second problem is essentially FTWORK Problem 4.1.1 (Faust et al., 1993). The problem-specific values are defined within the figures and were chosen to provide analytical solutions.

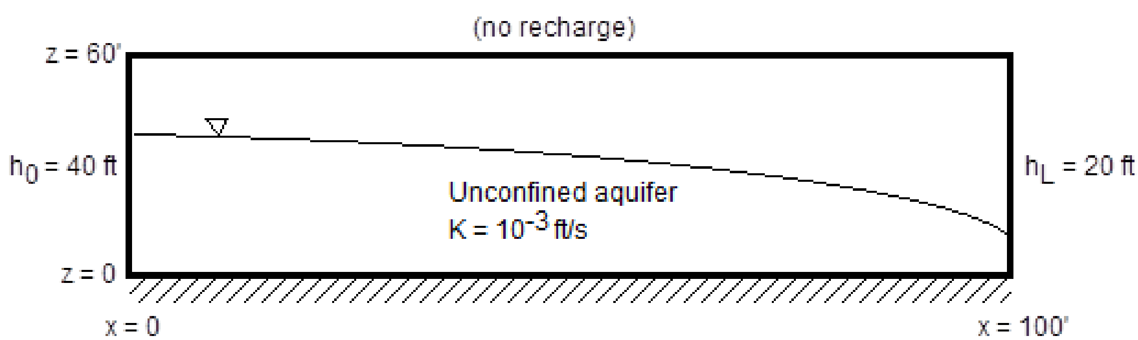

Figure 4.2.1: Schematic diagram of an unconfined aquifer with no recharge and constant head boundary conditions (Problem 1).

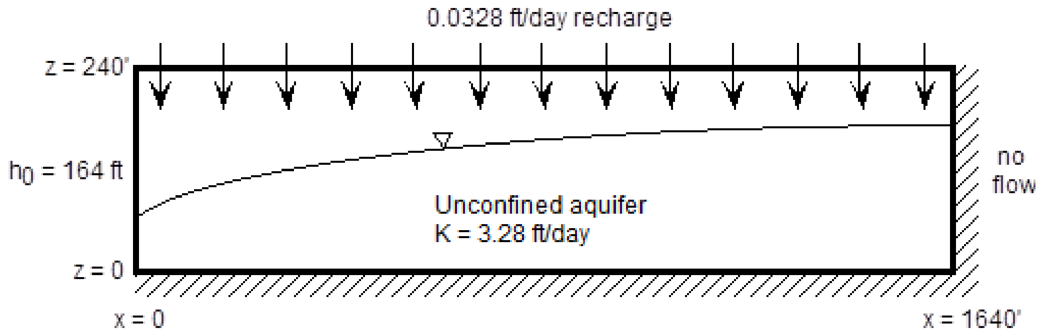

Figure 4.2.2: Schematic diagram of an unconfined aquifer with recharge and mixed head boundary conditions (Problem 2).

Invoking the Dupuit assumption gives the following general expression for flow in an unconfined aquifer (de Marsily, 1986, Eq. 5.1.1)

$$\frac{\partial}{\partial x}\left[\int_{\sigma}^{h} K_{xx} dz \frac{\partial h}{\partial x}\right] + \frac{\partial}{\partial y}\left[\int_{\sigma}^{h} K_{yy} dz \frac{\partial h}{\partial y}\right] = \omega_d \frac{\partial h}{\partial t} + Q \tag{4.2.1}$$

where K is the saturated hydraulic conductivity tensor, [L/T]; σ is the elevation of the aquifer base, [L]; and ω_d is the specific yield or drainage porosity.

If K_{xx} and K_{yy} are constant along the z-axis, we can evaluate the integral to arrive at

$$\frac{\partial}{\partial x}\left[K_{xx}(h-\sigma)\frac{\partial h}{\partial x}\right] + \frac{\partial}{\partial y}\left[K_{yy}(h-\sigma)\frac{\partial h}{\partial y}\right] = \omega_d \frac{\partial h}{\partial t} + Q \tag{4.2.2}$$

For the special case of a horizontal aquifer ($\sigma = 0$), an isotropic and uniform medium ($K_{xx} = K_{yy} = K$), and one-dimensional steady-state flow, Equation (4.2.2) becomes

$$\frac{\partial^2 h^2}{\partial x^2} = \frac{2Q}{K} \tag{4.2.3}$$

4.2.1 Constant Head boundary conditions

For the boundary conditions shown in Figure 4.2.1

$$h = h_0 \qquad \text{at } x = 0 \tag{4.2.4a}$$
$$h = h_L \qquad \text{at } x = L \tag{4.2.4b}$$

the analytical solution, derived using direct integration, results in

$$h^2 = h_0^2 + \left(h_L^2 - h_0^2\right)\frac{x}{L} + \frac{Q_{src}L^2}{K}\left(\frac{x}{L}\right)\left(1 - \frac{x}{L}\right) \tag{4.2.5}$$

where $Q_{src} = -Q$.

Listing 14 shows the PORFLOW input file for this problem. Figure 4.2.3 shows the calculated hydraulic head versus distance from the PORFLOW and the analytical solution. The exact values can be seen in Table B.4.22.

The PORFLOW values are in excellent agreement with the analytical solution. The slight differences between the Dupuit assumption and the PORFLOW calculation is due to curvature of the phreatic surface (water table). In reality, the flow is not purely horizontal and the flow near the phreatic surface has small components of velocity in the vertical direction. This issue is addressed as part of the new command VELO FLUX CORRECT and demonstrated in Section 4.11.

There are no differences in the results between PORFLOW versions.

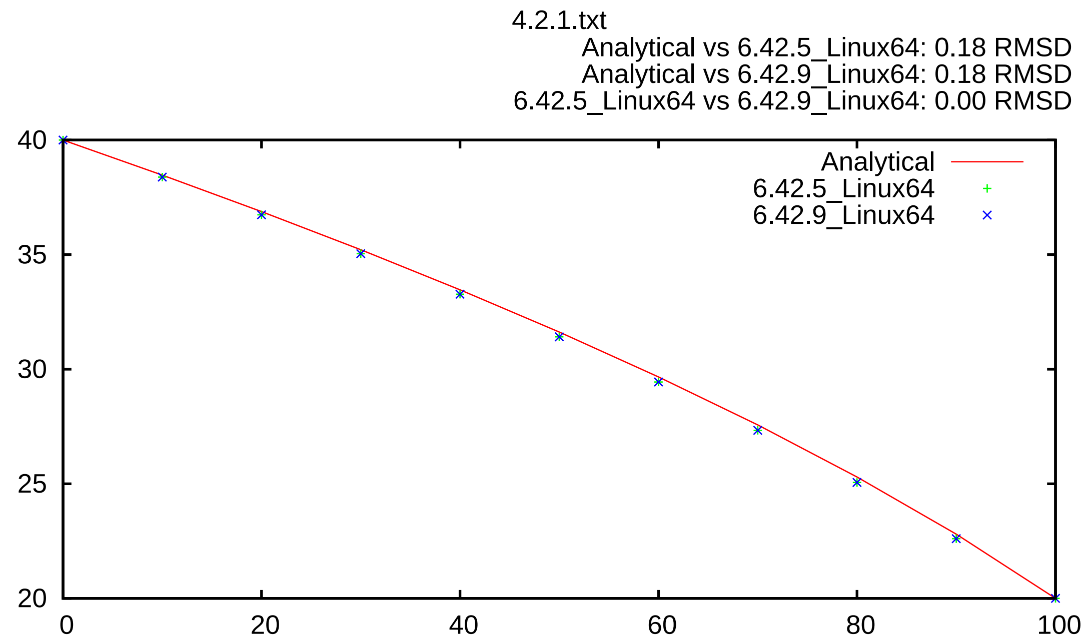

Figure 4.2.3: Hydraulic head versus distance for an unconfined aquifer with recharge.

4.2.2 Recharge and Mixed Head boundary conditions

For the boundary conditions shown in Figure 4.2.2

$$h = h_0 \qquad \text{at } x = 0 \tag{4.2.6a}$$

$$h' = 0 \qquad \text{at } x = L \tag{4.2.6b}$$

the analytical solution, derived using direct integration, results in

$$h^2 = h_0^2 - \frac{Q_{src}L^2}{K}\left(\frac{x}{L}\right)\left(\frac{x}{L} - 2\right) \tag{4.2.7}$$

Listing 15 shows the PORFLOW input file for this problem. Figure 4.2.4 shows the calculated hydraulic head versus distance from the PORFLOW and the analytical solution. The exact values can be seen in Table B.4.23.

The PORFLOW values are in excellent agreement with the analytical solution. The slight differences between the Dupuit assumption and PORFLOW are due to curvature of the phreatic surface (watertable). In reality, the flow is not purely horizontal and the flow near the phreatic surface has small components of velocity in the vertical direction. These issues are addressed as part of the new command VELO FLUX CORRECT and fully demonstrated in Section 4.11.

There are no differences in the results between PORFLOW versions.

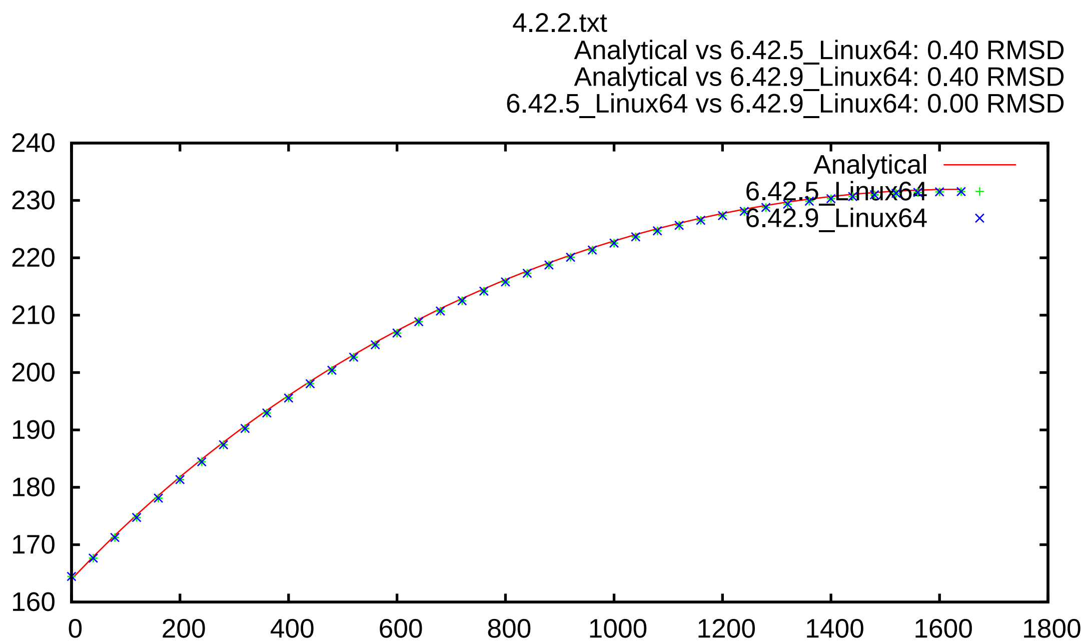

Figure 4.2.4: Comparison of Analytical Solution and PORFLOW Results for 4.2 (Problem 2).

4.3 Steady-state, 2-D Flow through a heterogeneous aquifer system.

Figure 4.3.1 schematically illustrates a particular problem involving steady-state groundwater flow through a heterogeneous subsurface system. The problem shown in Figure 4.3.1 was chosen as a test case to verify that PORFLOW can correctly solve a groundwater flow problem involving a non-uniform hydraulic conductivity field. Problem parameters were carefully chosen to enable an analytic solution. Specifically, the boundary conditions and conductivity field were chosen to create two aquifers with a constant head difference. A constant head difference coupled with a uniform conductivity in the confining unit yields a uniform leakance between the two aquifers. Assuming flow in the aquifers is essentially one-dimensional (the Dupuit assumption; typically an excellent assumption), analytical solutions can be derived for both the unconfined and confined aquifers with a constant source/sink term.

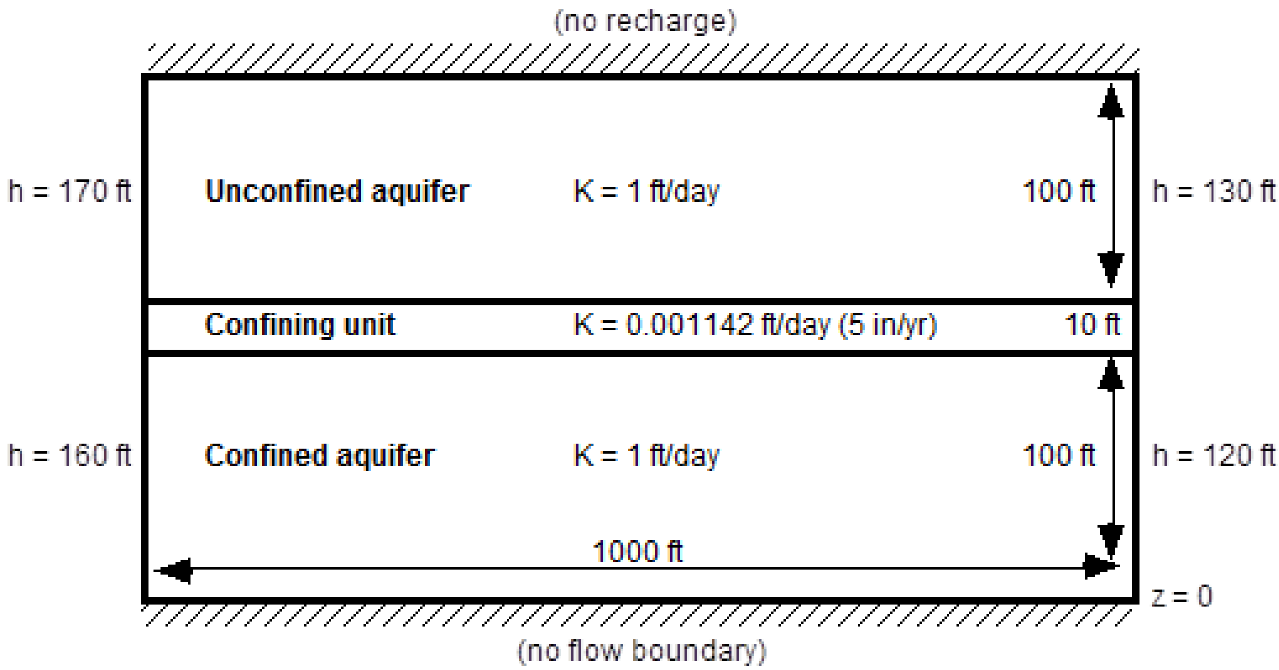

Figure 4.3.1: A Heterogeneous Subsurface System Consisting of an Unconfined Aquifer, Confining Unit, and Confined Aquifer.

4.3.1 Unconfined aquifer

The governing equations for the unconfined aquifer portion of this problem are the same as those shown in 4.2.1. Invoking the Dupuit assumption gives the following general expression for flow in an unconfined aquifer (de Marsily, 1986, Eq. 5.1.1)

$$\frac{\partial}{\partial x}\left[\int_{\sigma}^{h} K_{xx} dz \frac{\partial h}{\partial x}\right] + \frac{\partial}{\partial y}\left[\int_{\sigma}^{h} K_{yy} dz \frac{\partial h}{\partial y}\right] = \omega_d \frac{\partial h}{\partial t} + Q \tag{4.3.1}$$

where K is the saturated hydraulic conductivity tensor, [L/T]; σ is the elevation of the aquifer base, [L]; and ω_d is the specific yield or drainage porosity.

If K_{xx} and K_{yy} are constant along the z-axis, we can evaluate the integral to arrive at

$$\frac{\partial}{\partial x}\left[K_{xx}(h-\sigma)\frac{\partial h}{\partial x}\right] + \frac{\partial}{\partial y}\left[K_{yy}(h-\sigma)\frac{\partial h}{\partial y}\right] = \omega_d \frac{\partial h}{\partial t} + Q \tag{4.3.2}$$

For the special case of a horizontal aquifer ($\sigma = 0$), an isotropic and uniform medium ($K_{xx} = K_{yy} = K$), and one-dimensional steady-state flow, Equation 4.3.2 becomes

$$\frac{\partial^2 h^2}{\partial x^2} = \frac{2Q}{K} \tag{4.3.3}$$

For the boundary conditions shown in Figure 4.3.1

$$h = h_0 \qquad \text{at } x = 0 \tag{4.3.4a}$$

$$h = h_L \qquad \text{at } x = L \tag{4.3.4b}$$

the analytical solution, derived using direct integration, results in

$$h^2 = h_0^2 + \left(h_L^2 - h_0^2\right)\frac{x}{L} + \frac{Q_{src}L^2}{K}\left(\frac{x}{L}\right)\left(1 - \frac{x}{L}\right) \tag{4.3.5}$$

where $Q_{src} = -Q$.

Listing 16 shows the PORFLOW input file for this problem. Figure 4.3.2 shows the calculated PORFLOW and analytical results. The exact values can be seen in Table B.4.25.

As the water flows from the left boundary of the unconfined aquifer, vertical velocity components become evident due to the curvature of the water table. This impact can be shown by the hydraulic head in the unconfined aquifer falling below the analytical solution and consequently raising the hydraulic head in the confined aquifer (approximately at x=400 ft), compare Figures 4.3.2 and 4.3.3.

There are no differences in the results between PORFLOW versions.

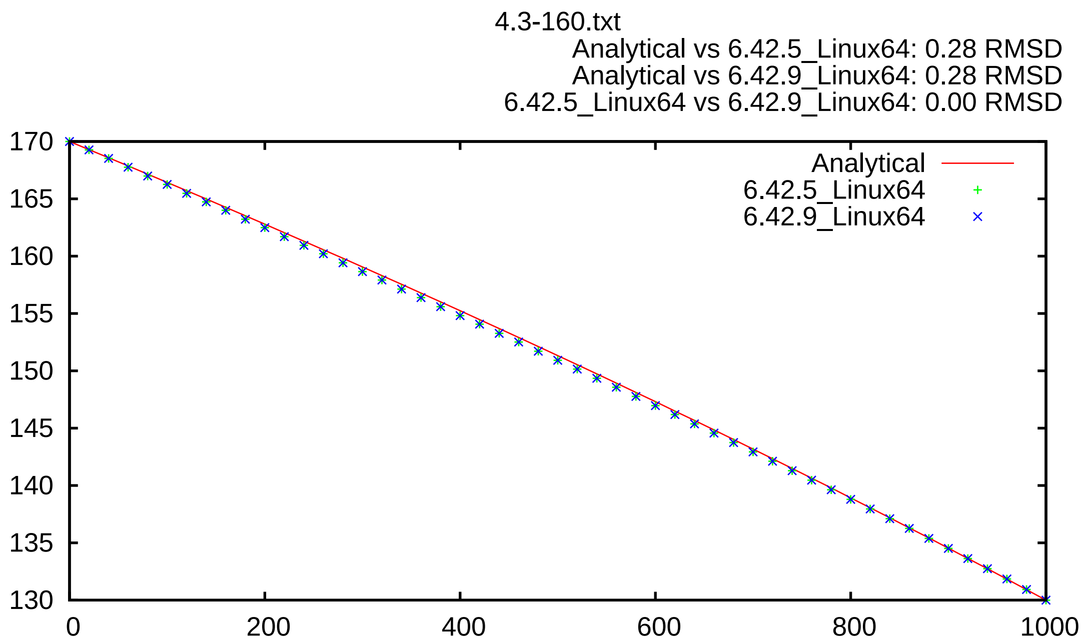

Figure 4.3.2: Analytical and PORFLOW hydraulic head profiles for the unconfined aquifer head (y = 160 ft)

4.3.2 Confined aquifer

The governing equations for the unconfined aquifer portion of this problem are the same as those shown in 4.1. Invoking the Dupuit assumption, the following governing equation can be developed for a confined aquifer (de Marsily, 1986, Eq 5.3.11)

$$\nabla^2 h = \frac{\partial^2 h}{\partial x^2} + \frac{\partial^2 h}{\partial y^2} = \frac{S}{T}\frac{\partial h}{\partial t} + \frac{Q}{T} \tag{4.3.6}$$

where h is the hydraulic head, [L]; S is the storage coefficient of a confined aquifer; T is the transmissivity of the aquifer, [L^2/T]; and Q is the volumetric flow rate per unit surface area withdrawn from the aquifer, [L/T]. The ratio T/S is the aquifer diffusivity.

For constant aquifer thickness, constant properties, and one dimensional steady flow, Equation 4.3.6 becomes

$$\frac{\partial^2 h}{\partial x^2} = \frac{Q}{Ke} \tag{4.3.7}$$

where e is the thickness of the aquifer.

For the boundary conditions shown in Figure 4.3.1

$$h = h_0 \qquad \text{at } x = 0 \tag{4.3.8a}$$

$$h = h_L \qquad \text{at } x = L \tag{4.3.8b}$$

the analytical solution, derived using direct integration, results in

$$h = h_0\left(1 - \frac{x}{L}\right) + h_L\left(\frac{x}{L}\right) + \frac{Q_{src}L^2}{2Ke}\left(\frac{x}{L}\right)\left(1 - \frac{x}{L}\right) \tag{4.3.9}$$

where $Q_{src} = -Q$.

Listing 16 shows the PORFLOW input file for this problem. Figure 4.3.3 shows the calculated PORFLOW and analytical results. The exact values can be seen in Table B.4.24.

As the water flows from the left boundary of the unconfined aquifer, vertical velocity components become evident due to the curvature of the watertable. This impact can be shown by the hydraulic head in the unconfined aquifer falling below the analytical solution and consequently raising the hydraulic head in the confined aquifer (approximately at x=400 ft), compare Figures 4.3.3 and 4.3.2.

There are no differences in the results between PORFLOW versions.

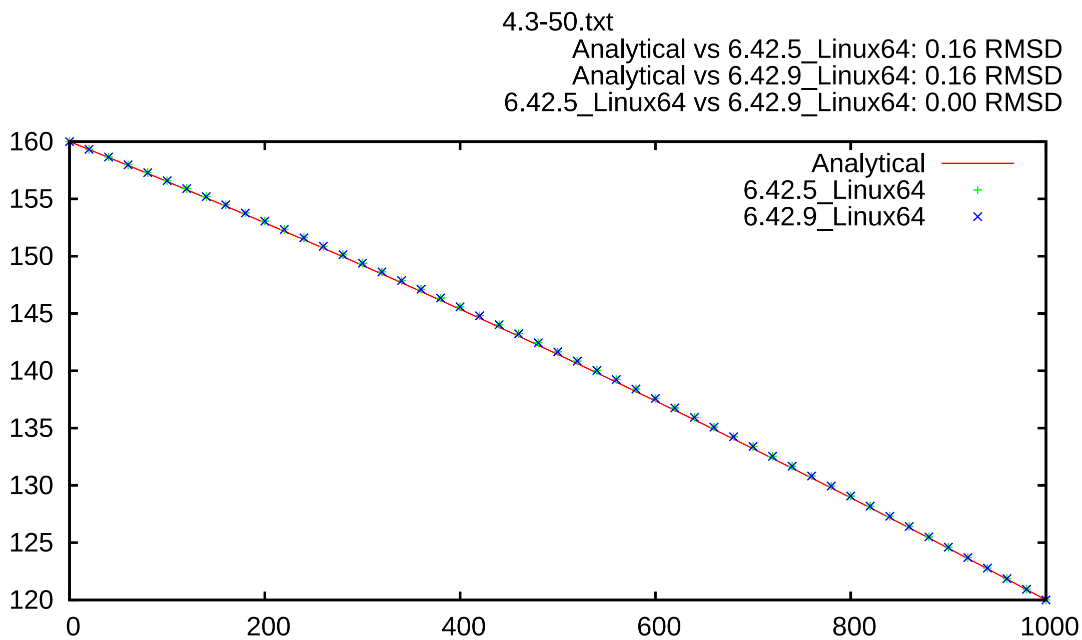

Figure 4.3.3: Analytical and PORFLOW hydraulic head profiles for the confined aquifer head (y=50 ft)

4.4 Unconfined aquifer subject to recharge and drain boundary conditions

Figure 4.4.1 schematically illustrates an unconfined aquifer experiencing both recharge and drainage at the ground surface. The seepline position is unknown *a priori*. This test case is designed to test the implementation of a combined recharge/drain Cauchy boundary condition. The results of the PORFLOW simulation will be compared to an approximate analytical solution.

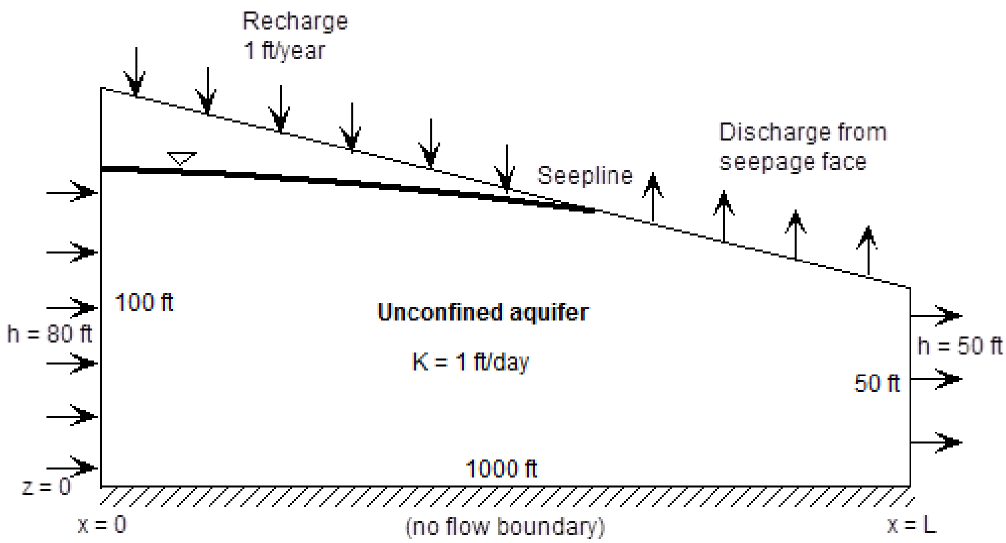

Figure 4.4.1: Schematic illustration of an unconfined aquifer experiencing both recharge and drainage at the ground surface; the seepline is unknown *a priori*.

Using the Dupuit assumption (de Marsily, 1986, Eq. 5.1.1), an analytical solution can be derived for the problem, see Section 4.3. Between the left boundary and the seepline, there is an unconfined aquifer subject to a recharge rate of 1 ft/yr. From inspection of Eq. 4.3.5, the analytical solution for hydraulic head is

$$h^2 = h_0^2 + \left(h_s^2 - h_0^2\right)\frac{x}{L_s} + \frac{Q_{src}L_s^2}{K}\left(\frac{x}{L_s}\right)\left(1 - \frac{x}{L_s}\right) 0 \leq x \leq L_s \tag{4.4.1}$$

where the seepline is positioned at $x = L_s$ and the hydraulic head at the seepline is h_s. The other variables are defined as before. Along the seepage face, the drain coefficient is assumed sufficiently large that the hydraulic head is the same as the ground elevation. That is,

$$h_s = 50\left(2 - \frac{x}{L}\right) \text{ for } L_s \leq x \leq L \tag{4.4.2}$$

The location of the seepline is obtained from the simultaneous solution of the following nonlinear equation set:

$$h_s = 50\left(2 - \frac{L_s}{L}\right) \tag{4.4.3}$$

$$\left.\frac{dh}{dx}\right|_{x=L_s^-} = \frac{1}{h_s}\left[\frac{h_s^2 - h_0^2}{2L_s} - \frac{Q_{src}L_s}{2K}\right] = \frac{h_L - h_s}{L - L_s} = \left.\frac{dh}{dx}\right|_{x=L_s^+} \tag{4.4.4}$$

For the parameter values indicated in Figure 4.4.1, the location of the seepline is $L_s = 829ft$.

A full discussion the implementation of the head-dependent recharge and drain boundary condition can be found in Section 3.1.7.1 of the FACT Version 2.0 manual (Hamm and Aleman, 2000). In summary, the recharge/drain boundary condition is implemented as shown in Figure 4.4.2.

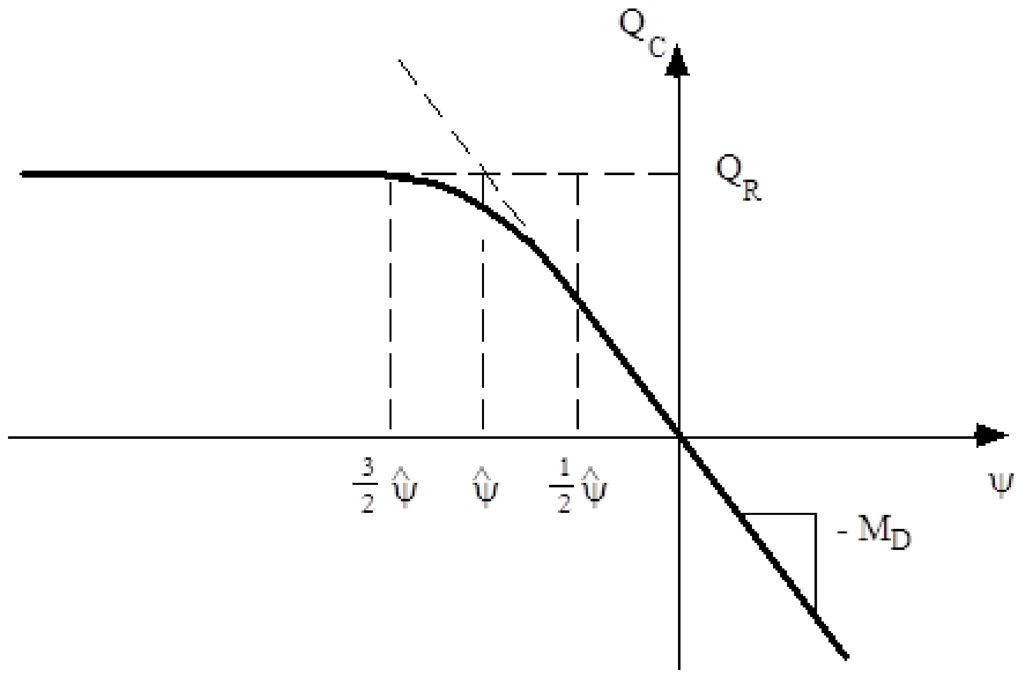

Figure 4.4.2: Cauchy Boundary Condition for the Simultaneous Treatment of Groundwater Recharge and Drainage.

The mathematical formulation chosen for this function, as shown in Figure 4.4.2 is

$$Q_c = \begin{cases} Q_R & \text{for } \Psi \leq \frac{3}{2}\hat{\Psi} \\ \frac{Q_R}{8}\left[7 - 2x - x^2\right] & \text{for } \frac{3}{2}\hat{\Psi} < \Psi < \frac{1}{2}\hat{\Psi} \\ -M_D\Psi & \text{for } \frac{1}{2}\hat{\Psi} \leq \Psi \end{cases} \tag{4.4.5}$$

where

$$\Psi = h - y_c \tag{4.4.6a}$$
$$Q_R = A_D R_{max} \tag{4.4.6b}$$
$$M_D = A_D \left(\frac{K}{b}\right)_D \tag{4.4.6c}$$
$$x = 2\frac{\hat{\Psi} - \Psi}{\hat{\Psi}} \tag{4.4.6d}$$
$$\hat{\Psi} = -\frac{Q_R}{M_D} \tag{4.4.6e}$$

and y_c is the nodal surface elevation, [L]; Ψ is the nodal surface pressure head, [L]; Q_c is the nodal volumetric source or sink flow rate at the surface, [L^3/t]; R_{max} is the maximum recharge rate, [L/T]; A_D is the nodal area available for recharge and drainage (computed), in [L^2]; and $\left(\frac{K}{b}\right)_D$ is the surface leakance coefficient, [T^{-1}].

Equation 4.4.5 is divided by the nodal area, A_D, to get the expression back to a flux boundary condition which is required by PORFLOW

$$R_c = \begin{cases} R_{max} & \text{for } \Psi \leq \frac{3}{2}\hat{\Psi} \\ \frac{R_{max}}{8}\left[7 - 2x - x^2\right] & \text{for } \frac{3}{2}\hat{\Psi} < \Psi < \frac{1}{2}\hat{\Psi} \\ -\left(\frac{K}{b}\right)_D \Psi & \text{for } \frac{1}{2}\hat{\Psi} \leq \Psi \end{cases} \tag{4.4.7}$$

The maximum recharge, R_{max}, is 1 ft/year as shown in Figure 4.4.1. The surface leakance coefficient was set to 1 day^{-1}.

4.4.1 Recharge Only (Y+ uses FLUX table of values)

Listing 17 shows the PORFLOW input file for this problem. Figure 4.4.3 show the calculated hydraulic head versus distance for the PORFLOW and analytical solutions. The exact values are shown in Table B.4.26.

There are no differences in the results between PORFLOW versions. The differences in the analytical and PORFLOW solutions are minimal, and due in part to two differences in model assumptions.

First, the analytical solution assumes the recharge rate is a constant 1 ft/day from the left boundary to the seepline. The implementation of Eq. 4.4.7 in PORFLOW results in the recharge rate varying from a maximum of 1 ft/day to 0 ft/day at the seepline. The effective recharge in the PORFLOW model is slightly less than 1 ft/day, which causes a negative bias in the water table between the left boundary and seepline. Second, the drain portion of the recharge/drain boundary condition could not be implemented in PORFLOW due to convergence issues, which causes a positive bias between the seepline and right boundary. This issue is addressed in Section 4.4.2

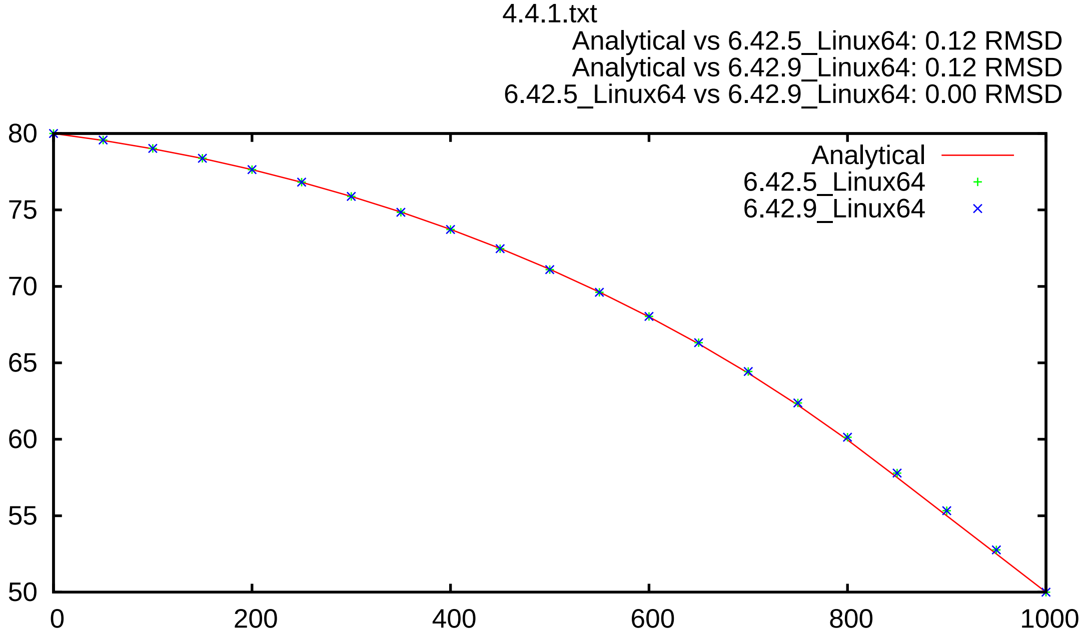

Figure 4.4.3: Comparison of PORFLOW Hydraulic Head Distribution to Analytical Solution (Y = 5).

4.4.2 Recharge and Drain (Y+ uses SEEPage function)

The SEEPage function is a new modifier to the FLUX PORFLOW command. This modifier computes the SEEPage as a function of the surface pressure, the recharge rate and the surface leakance. This enables the drain portion of the problem to be correctly modeled.

Listing 18 shows the PORFLOW input file for this problem. Figure 4.4.4 show the calculated PORFLOW and analytical results. The exact values can be seen in Table B.4.27. The results from using this command show better agreement between the Analytical and PORFLOW solutions than those shown in 4.4.1 (RMSD of 0.05 vs 0.12).

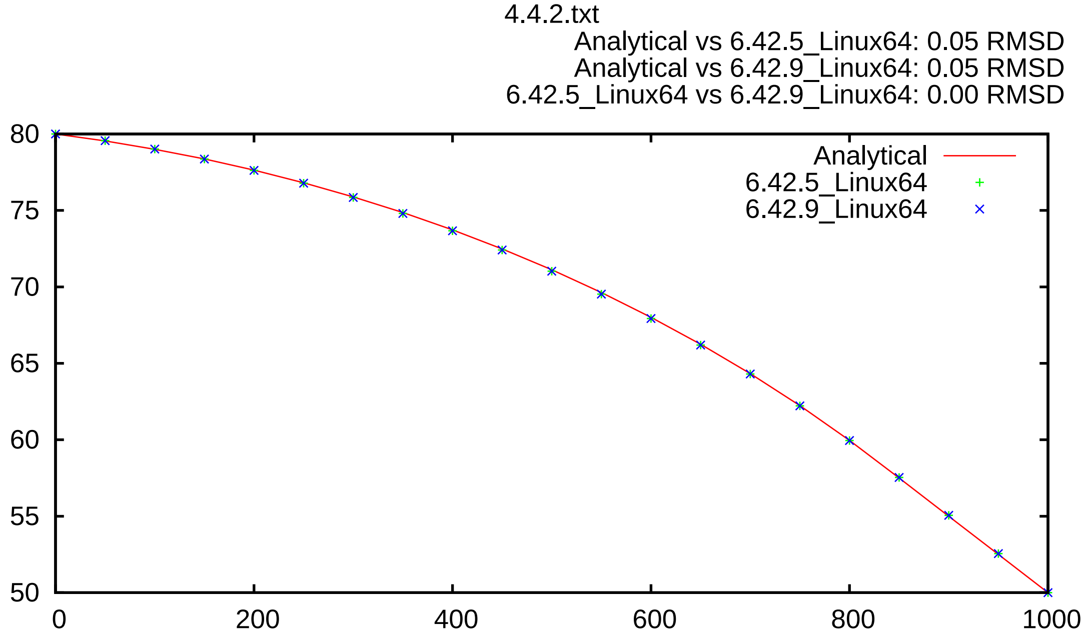

Figure 4.4.4: Comparison of PORFLOW Hydraulic Head Distribution to Analytical Solution (Y = 5).

4.4.3 Recharge and Drain (Multiple Infiltration Sites)

In previous versions of PORFLOW, when multiple infiltration sites were defined the program would apply the last specified parameters to all locations. The current version of PORFLOW correctly addresses this problem by applying the specified parameters to the correct location.

To demonstrate this correction a 2D grid was created with two infiltration sites on the left and right sides. The test cases implement high and low infiltration rates in the following combinations: Left High - Right High; Left High - Right Low; Left Low - Right High; Left Low - Right Low.

Listings 19 to 22 shows the PORFLOW input file for this problem. Figures 4.4.5 to 4.4.8 show the comparison between PORFLOW versions. The exact values can be seen in Tables B.4.28 to B.4.31. These results show that the latest version of PORFLOW implements the correct behavior.

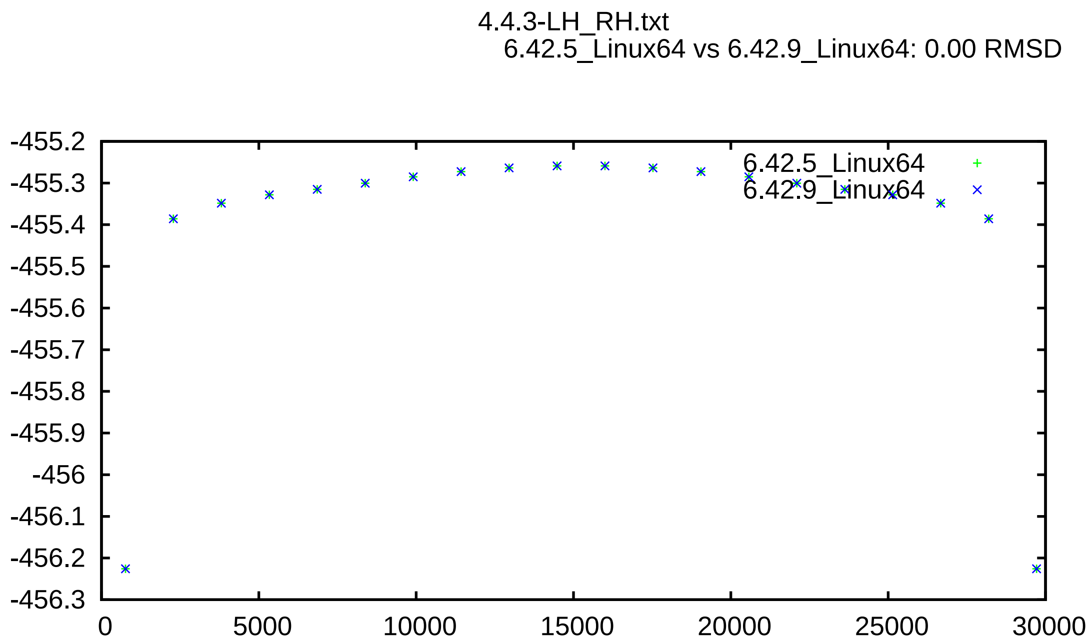

Figure 4.4.5: Comparison of PORFLOW Multiple Infiltration Sites.

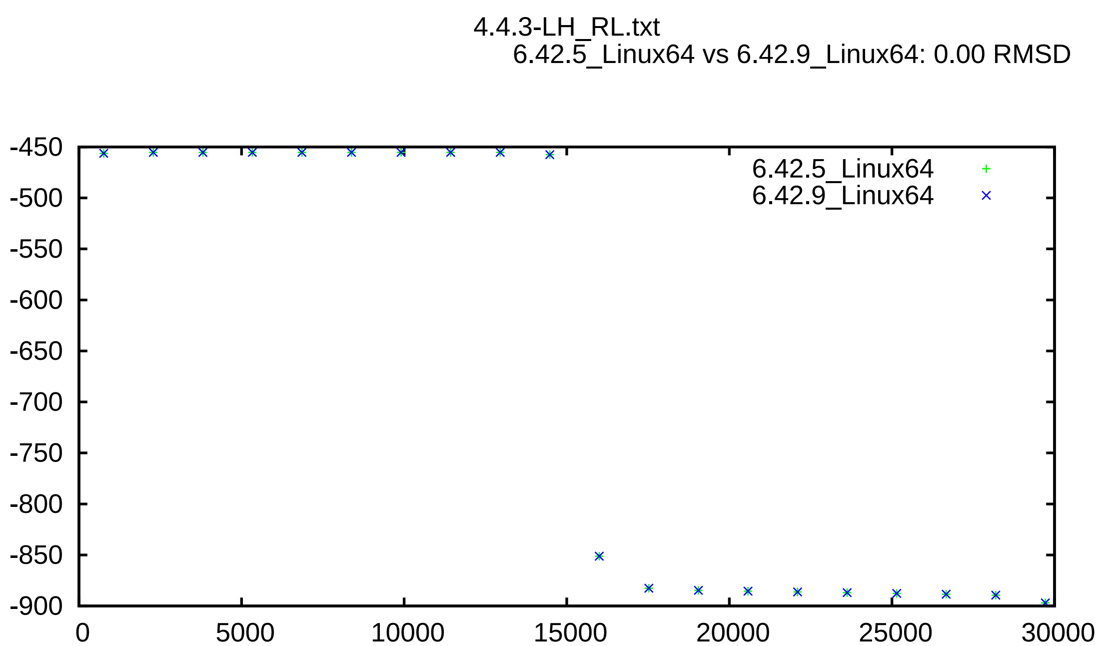

Figure 4.4.6: Comparison of PORFLOW Multiple Infiltration Sites.

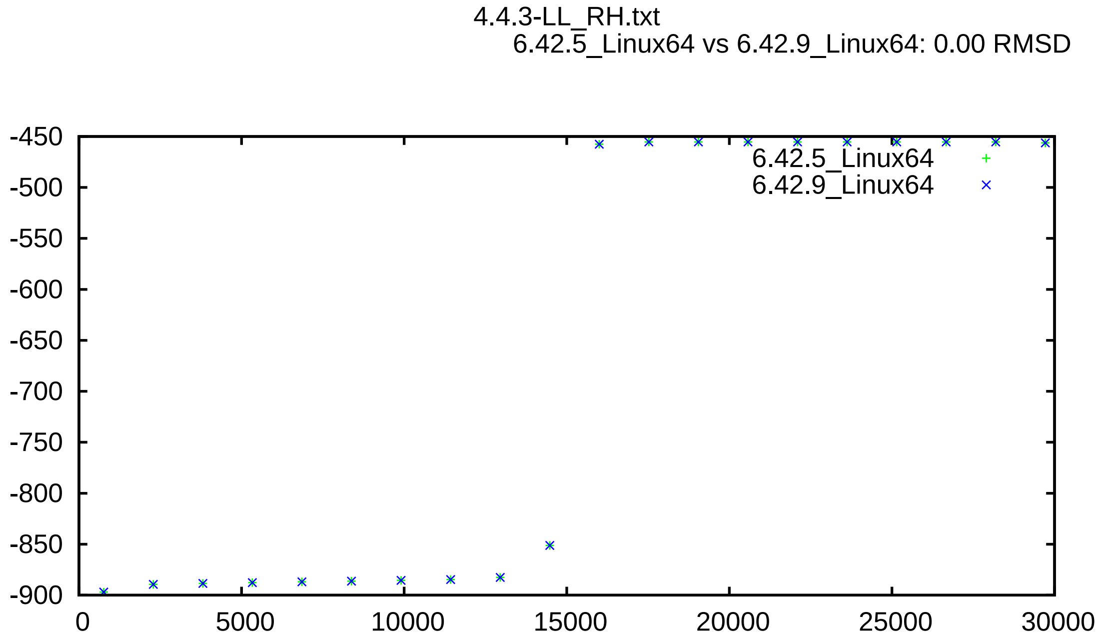

Figure 4.4.7: Comparison of PORFLOW Multiple Infiltration Sites.

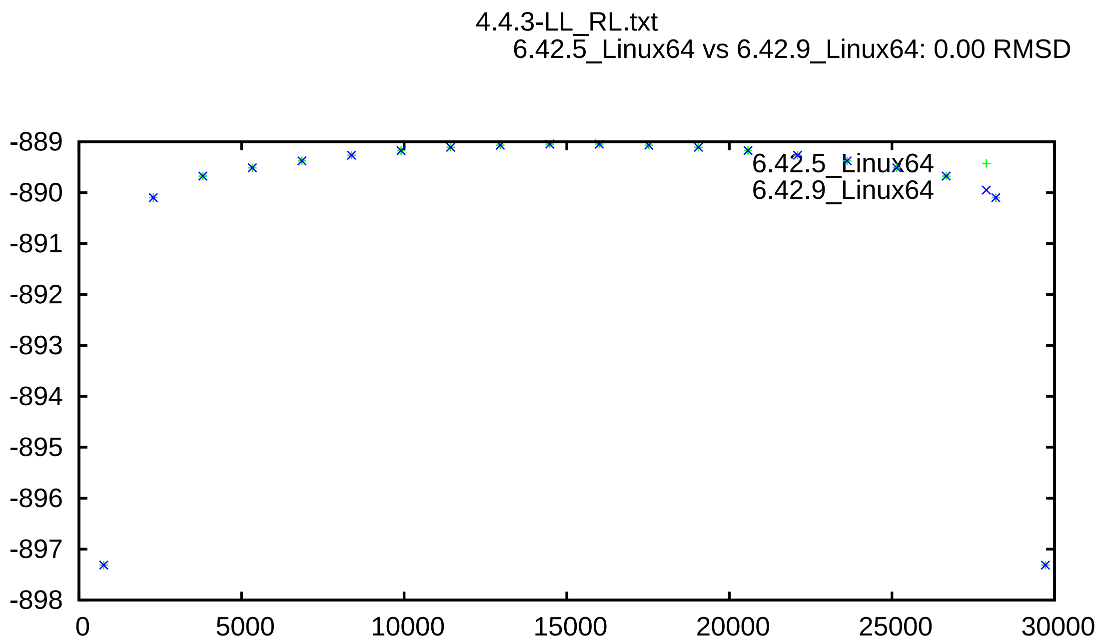

Figure 4.4.8: Comparison of PORFLOW Multiple Infiltration Sites.

4.5 Transient, One-Dimensional Flow to a Well in a Confined Aquifer (Theis, 1935)

The problem involves radial flow to a well in a confined aquifer whose classic solution is given by (Theis, 1935). The problem is illustrated in Figure 4.5.1. Specifically we consider an aquifer with the following attributes:

- homogeneous, isotropic, and of uniform thickness
- fully confined above and below by impervious layers
- infinite in horizontal extent
- water is released instantaneously from storage when hydraulic head decreases
- homogeneous and isotropic properties
- the screen of the pumped well fully penetrates the aquifer
- well diameter is very small, so that storage in the well can be neglected
- water is pumped at a constant rate from the well, and enters uniformly along the well screen
- prior to pumping, the aquifer is in a state of equilibrium

The parameter values chosen for PORFLOW are given in Figure 4.5.1 and are equivalent to those chosen by (Anderson, 1993, Problem 1) for MODFLOW simulations.

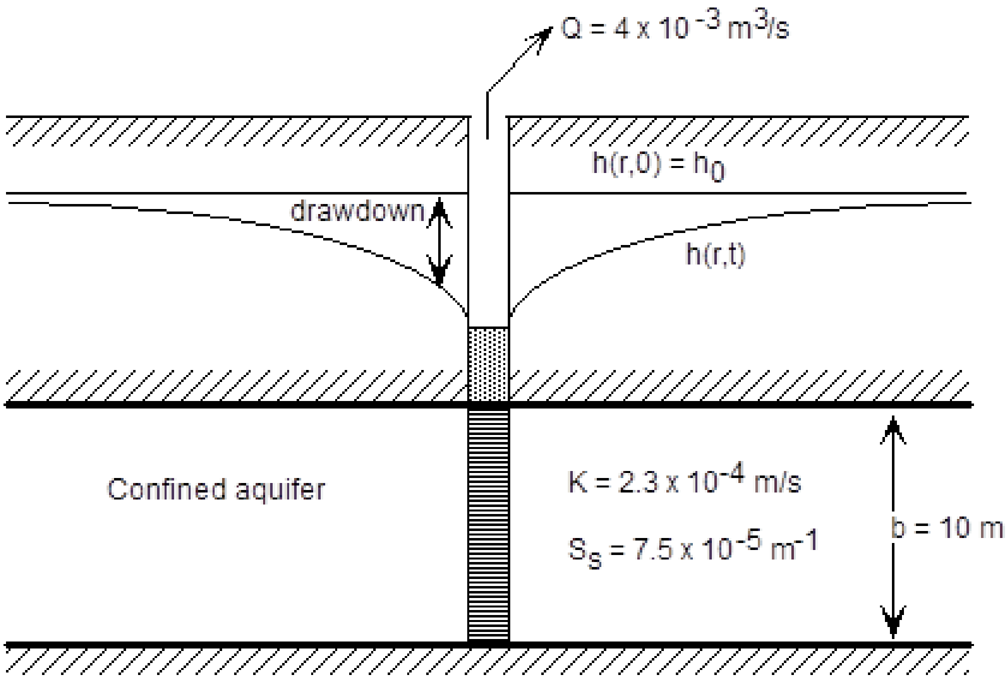

Figure 4.5.1: Radial Flow to a Pumping Well in a Confined Aquifer.

The governing equation for the flow problem described above is (Freeze and Cherry, 1979, Section 8.3)

$$\frac{1}{r}\frac{\partial}{\partial r}\left(r\frac{\partial h}{\partial r}\right) = \frac{S}{T}\frac{\partial h}{\partial t} \tag{4.5.1}$$

The initial condition is

$$h(r,0) = h_0 \tag{4.5.2}$$

where h_0 is the constant initial head.

The boundary conditions assume no drawdown in hydraulic head at the infinite boundary

$$h(\infty,t) = h_0 \tag{4.5.3}$$

and a constant pumping rate Q at the well:

$$\lim_{r\to 0}\left(r\frac{\partial h}{\partial r}\right) = \frac{Q}{2\pi T} \text{ for } t > 0 \tag{4.5.4}$$

Because the aquifer properties are homogeneous

$$S = S_s b \tag{4.5.5a}$$

$$T = Kb \tag{4.5.5b}$$

An analytical solution to Equation 4.5.1 subject to the initial and boundary conditions of Eqs. 4.5.2 through 4.5.5b is given by (Theis, 1935) in terms of drawdown as

$$s = h_0 - h(r,t) = \frac{Q}{4\pi T}\int_0^\infty \frac{e^{-\tau}}{\tau}d\tau = \frac{Q}{4\pi T}W(u) \tag{4.5.6}$$

where

$$u = \frac{r^2 S}{4Tt} \tag{4.5.7}$$

and $W(u)$ is known as the Theis well function. The well function (or the exponential integral) can be evaluated by polynomial and rational approximations given by (Abramowitz and Stegun, 1970, p. 231).

$$W(u) = \begin{cases} -0.5772 + u - 0.25u^2 + 0.055u^3 - 0.01u^4 + 0.001u^5 - \ln(u) & u < 1 \\ \dfrac{e^{-u}}{u}\dfrac{u^4 + 8.58u^3 + 18.06u^2 + 8.64u + 0.27}{u^4 + 9.57u^3 + 25.63u^2 + 21.1u + 3.96} & u \geq 1 \end{cases} \tag{4.5.8}$$

This problem was solved using PORFLOW in one (radial) dimension.

Listing 23 show the PORFLOW input files for this problem. Figures 4.5.2 and 4.5.3 show the calculated drawdown versus time at a radial distance of 55 meters from the well for the PORFLOW and analytical solutions. These exact values can be seen in Tables B.4.32 and B.4.33.

Listing 24 - the Cartisean equivalent of this command - was never implemented or run (section 4.6 may do this).

There are no differences in the results between PORFLOW versions. The differences in the Analytical and PORFLOW solutions are minimal.

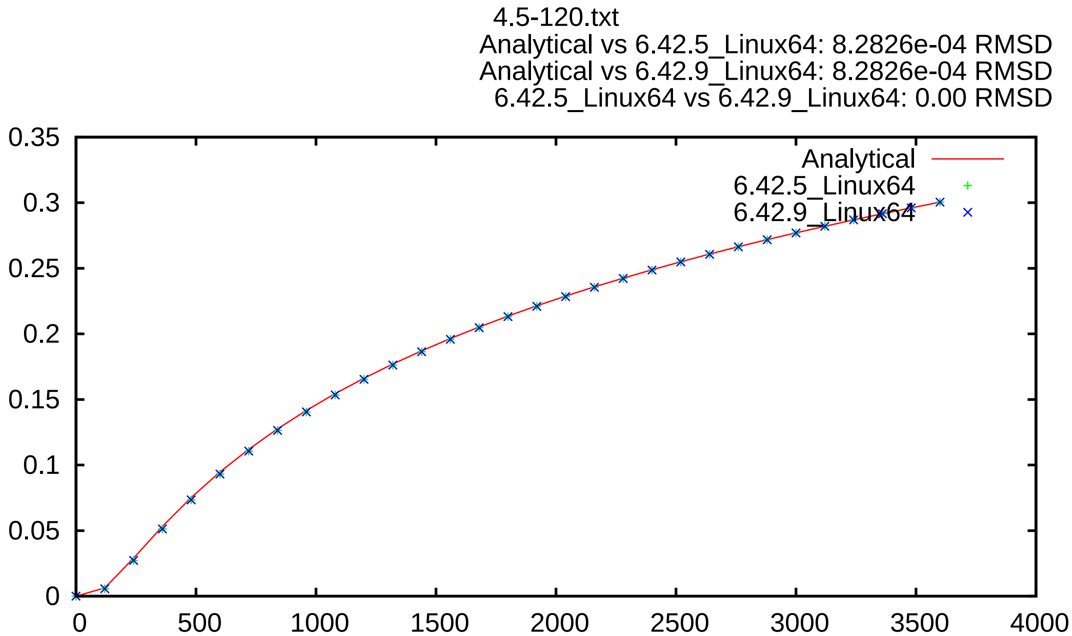

Figure 4.5.2: Drawdown for 1 hr

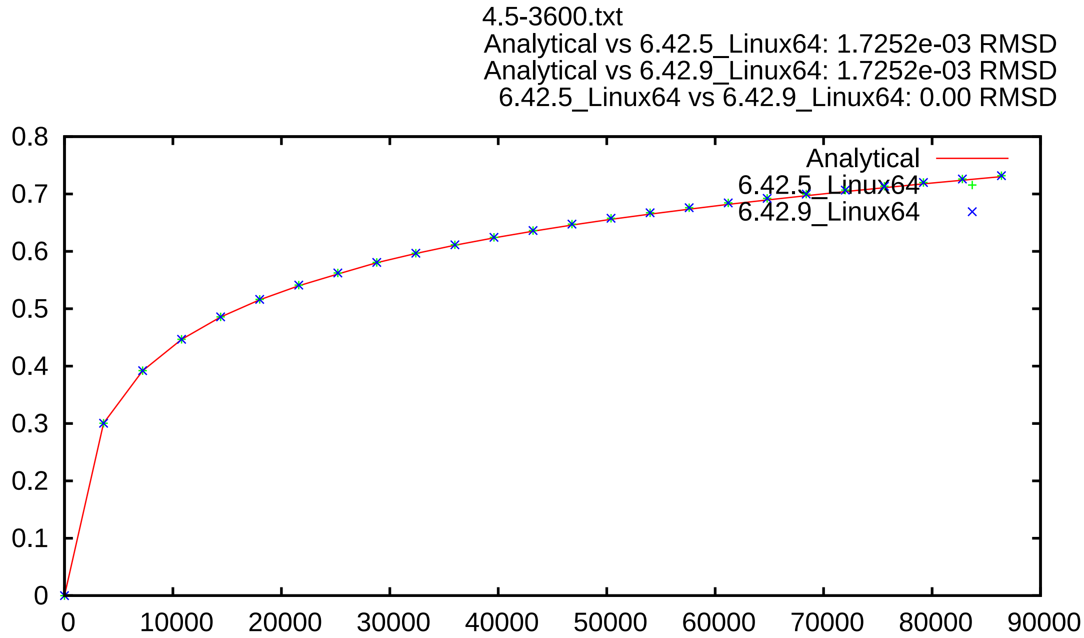

Figure 4.5.3: Drawdown for 1 day

4.6 Transient, Two-Dimensional Flow to a Well in an Anisotropic Confined Aquifer (Hantush and Thomas, 1966)

We next consider a confined aquifer identical to Problem 4.5 except that the hydraulic conductivity is anisotropic in the horizontal plane as shown in Figure 4.6.1. The principal axes of the conductivity tensor are assumed to be aligned with the coordinate axes.

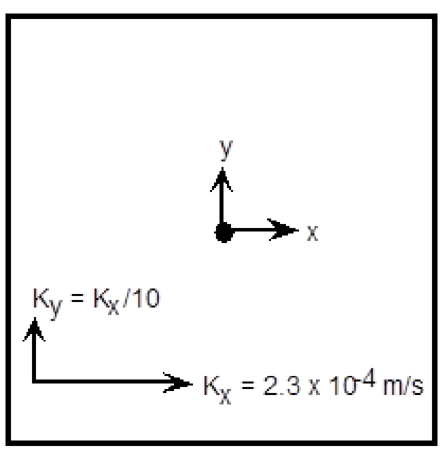

Figure 4.6.1: Anisotropic Confined Aquifer with $K_x/K_y = 10$.

The governing equation for the flow problem described above can be written as

$$\frac{\partial}{\partial x}\left(T_x\frac{\partial h}{\partial x}\right)+\frac{\partial}{\partial y}\left(T_y\frac{\partial h}{\partial y}\right)=S\frac{\partial h}{\partial t}+Q\delta(x)\delta(y) \text{ for } -\infty<x<\infty,-\infty<y<\infty \tag{4.6.1}$$

The initial condition is

$$h(x,y,0)=h_0 \tag{4.6.2}$$

Because the aquifer hydraulic conductivity is anisotropic, Eq. 4.5.5b becomes

$$T_x=K_xb \text{ and } T_y=K_yb \tag{4.6.3}$$

The solution to the governing equation is given by (Hantush and Thomas, 1966) as

$$s=h_0-h(r,t)=\frac{Q}{4\pi\sqrt{T_xT_y}}\int_{u'}^{\infty}\frac{e^{-\tau}}{\tau}d\tau=\frac{Q}{4\pi\sqrt{T_xT_y}}W(u') \tag{4.6.4}$$

where

$$u'=\frac{\left(x^2T_y+y^2T_x\right)S}{4T_xT_yt} \tag{4.6.5}$$

and $W(u')$ is the well function, 4.5.8. Note that for $T_x=T_y$, the above solution reduces to the Theis solution presented in Section 4.5.

Listing 25 shows the PORFLOW input file for this problem. Figures 4.6.2 to 4.6.4 show the transient drawdown of a virtual piezometer at x = 55 m, y =55 m and x = y = 55 m, respectively. The exact values are shown in Tables B.4.34 to B.4.36.

There are no differences in the results between PORFLOW versions. The differences in the Analytical and PORFLOW solutions are minimal. The reason for the differences in the RMSD values shown in Figure 4.6.2 and Figure 4.6.3 is because of the distortion that occurs at the boundaries, see Figure 4.6.5.

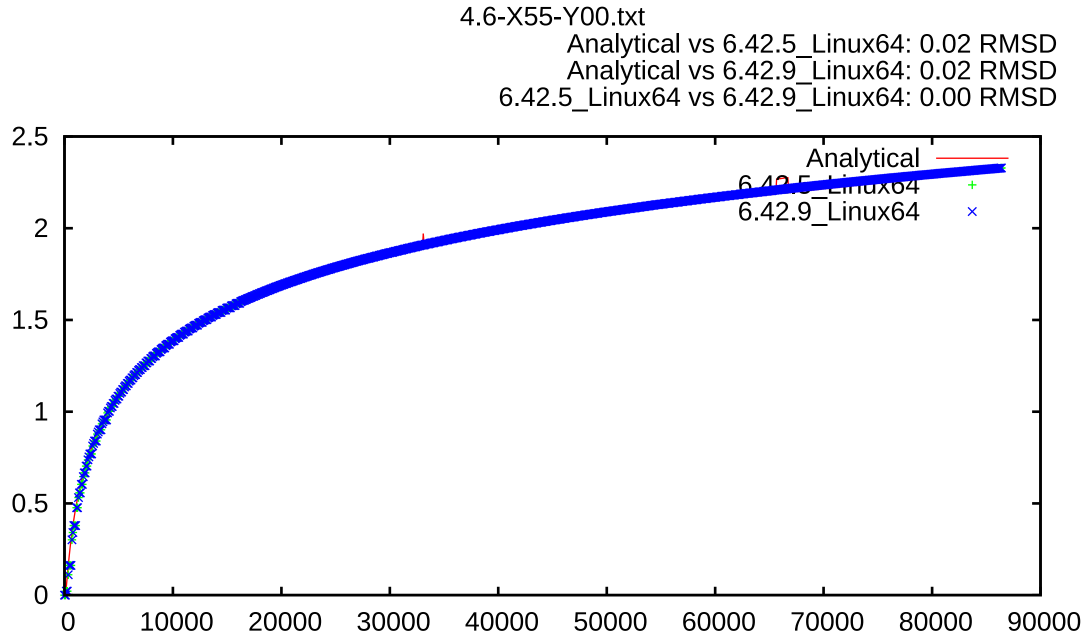

Figure 4.6.2: Drawdown at x=55 m, y=0 m

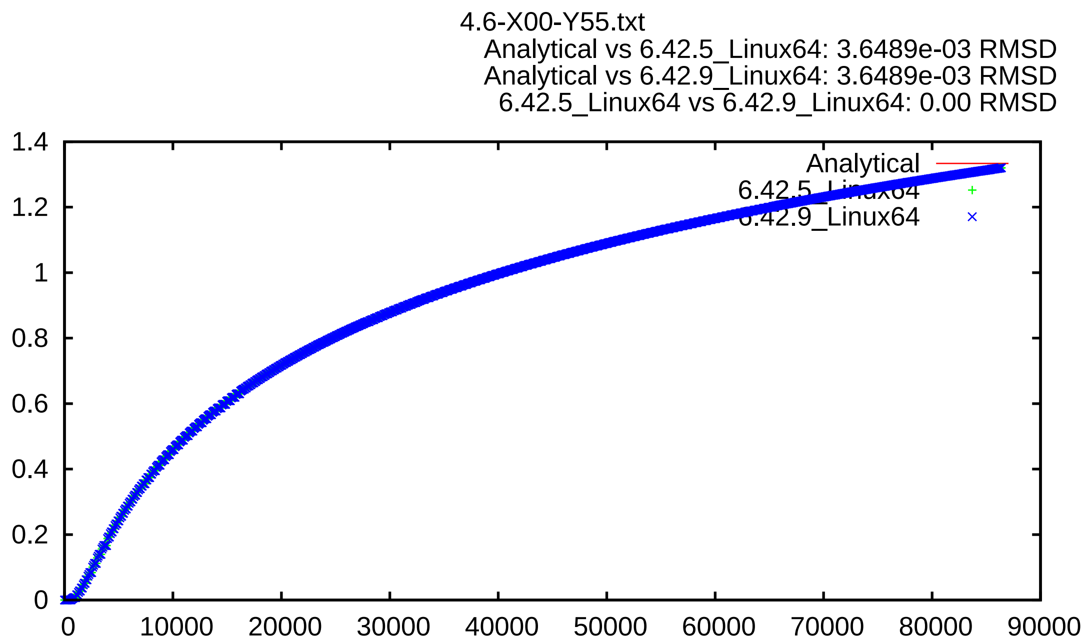

Figure 4.6.3: Drawdown at x=0 m, y=55 m

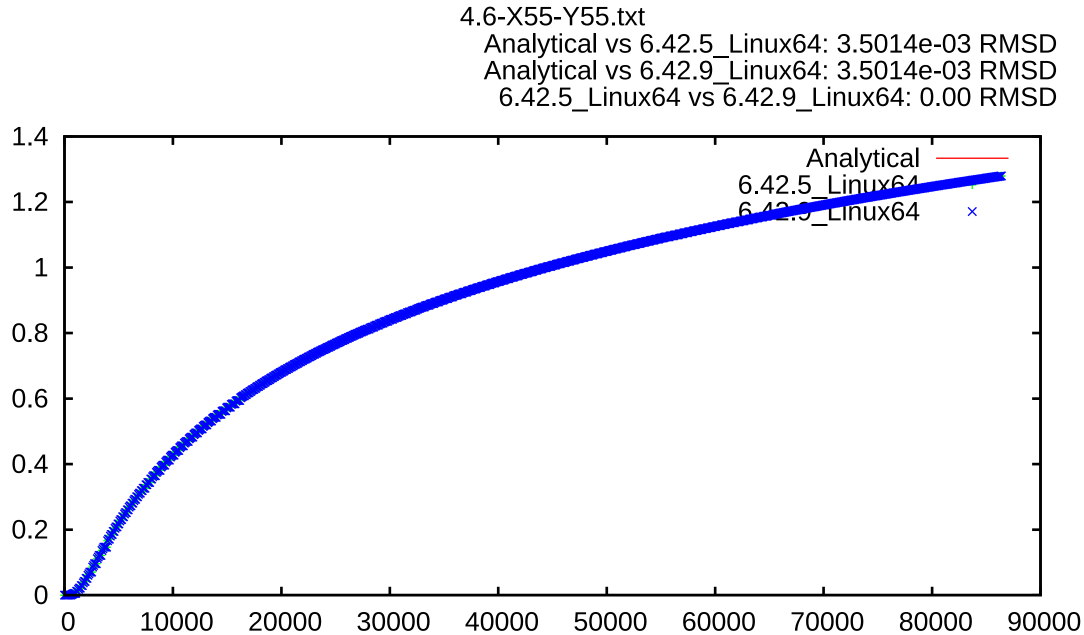

Figure 4.6.4: Drawdown at x=55 m, y = 55m

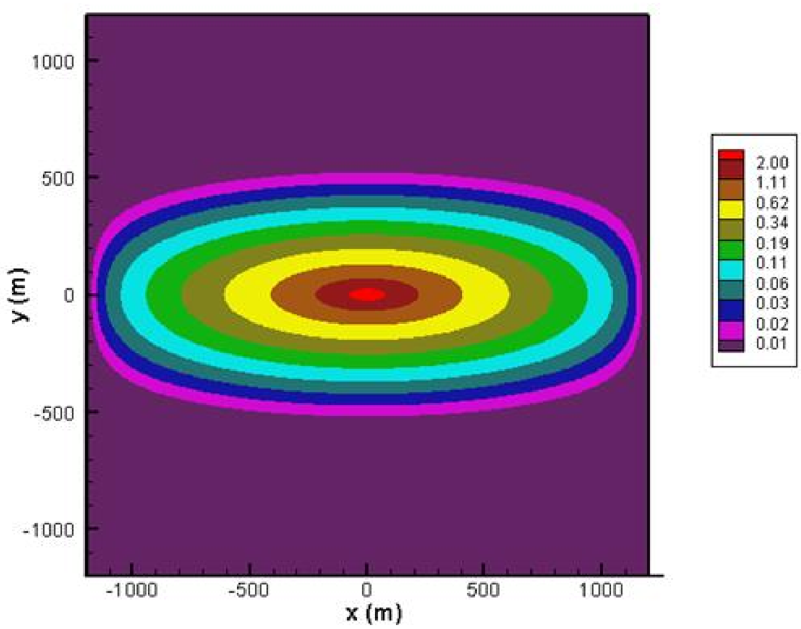

Figure 4.6.5: PORFLOW drawdown at 1 day

4.7 Transient, One-Dimensional Flow to a Well in a Leaky Confined Aquifer (Hantush and Jacob, 1955)

We next consider a confined aquifer identical to Section 4.5 except that the aquifer is recharged from an overlying constant head aquifer through an aquitard separating them, as shown in Figure 4.7.1. The aquitard is assumed to have uniform thickness and vertical conductivity. Flow through the aquitard is assumed to be vertical and proportional to the head difference between the adjoining aquifers (storage capacity assume to be zero). Parameter values are taken from a problem in Faust et al. (1993).

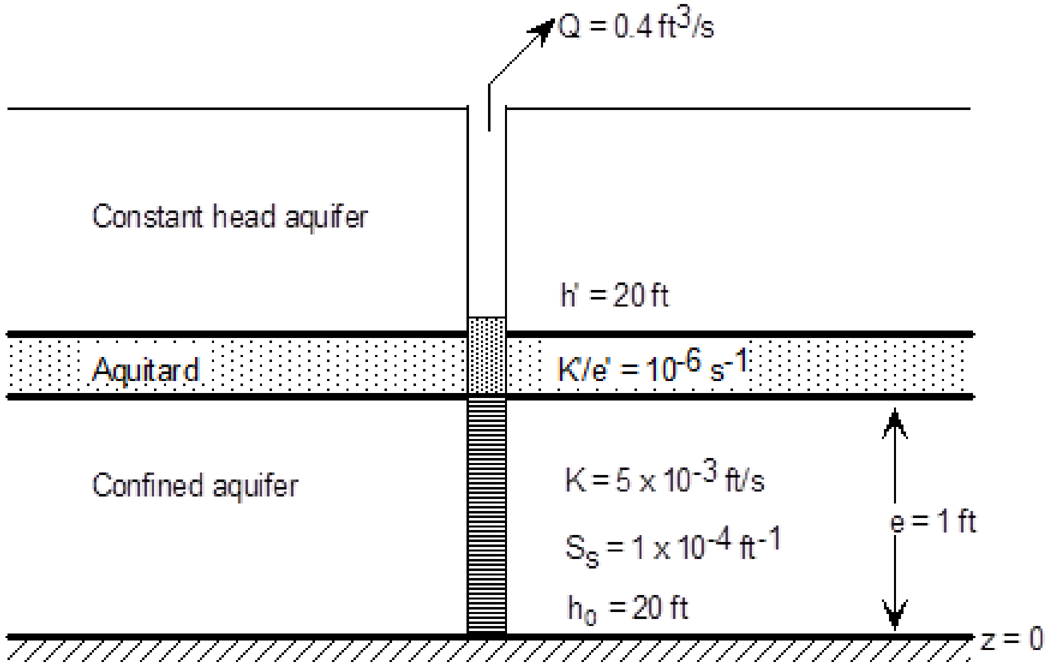

Figure 4.7.1: Schematic diagram of a leaky confined aquifer with constant discharge from a single, fully-penetrating well.

The governing equation for the flow problem described above is (Freeze and Cherry, 1979, Section 8.3)

$$\frac{1}{r}\frac{\partial}{\partial r}\left(r\frac{\partial h}{\partial r}\right) = \frac{S}{T}\frac{\partial h}{\partial t} + F_t \tag{4.7.1}$$

The initial condition is

$$h(r, 0) = h_0 \tag{4.7.2}$$

where h_0 is the constant initial head.

The boundary conditions assume no drawdown in hydraulic head at the infinite boundary

$$h(\infty, t) = h_0 \tag{4.7.3}$$

and a constant pumping rate Q at the well:

$$\lim_{r\to 0}\left(r\frac{\partial h}{\partial r}\right) = \frac{Q}{2\pi T} \text{ for } t > 0 \tag{4.7.4}$$

where F_t represents leakance from the overlying aquifer. The leakage flux is given by

$$F_t = -\frac{K'}{e'}(h' - h) \tag{4.7.5}$$

where K'/e' is the aquitard leakance coefficient. The solution to Eq. 4.7.1 is given by (Hantush and Jacob, 1955) as

$$s = h_0 - h(r,t) = \frac{Q}{4\pi T}\int_u^\infty \frac{e^{-\tau - r^2/4B^2\tau}}{\tau}d\tau = \frac{Q}{4\pi T}W'(u) \tag{4.7.6}$$

where the Hantush leakage factor

$$B = \sqrt{Te'/K'} \tag{4.7.7}$$

Note that for $B = \infty$ (no leakance) the above solution reduces to the Theis solution presented in Section 4.5.

Listing 26 shows the PORFLOW input file for this problem. Figure 4.7.2 show the calculated drawdown versus time at a radial distance of 60 feet from the well for the PORFLOW and analytical solutions. The exact values can be seen in Table B.4.37.

There are no differences in the results between PORFLOW versions. The differences in the Analytical and PORFLOW solutions are minimal.

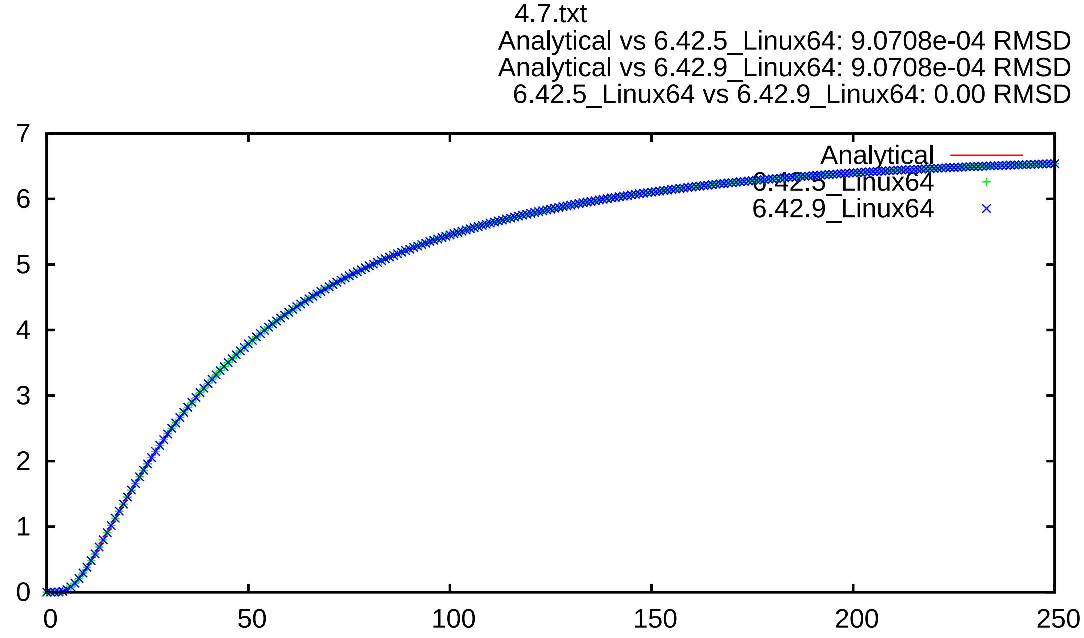

Figure 4.7.2: Results for Problem 4.7

4.8 Free-Surface Boussinesq Flow with Recharge

This test case concerns a semi-infinite, unconfined aquifer. Initially the phreatic surface is at 10 meters everywhere. At time 0, the water level at the left boundary is suddenly raised to 11 meters. The schematic is shown in Figure 4.8.1. The horizontal extent of the computational domain is set at 200 meters and the vertical extent at 11 meters. The objective is to determine the phreatic surface at specified times. This problem is often referred to as the Boussinesq problem. It is described in detail by (Polubarinova-Kochina, 1962). This problem and description was taken from (Problem V.10 ACRI, 1994, PORFLOW Validation Report, v2.50).

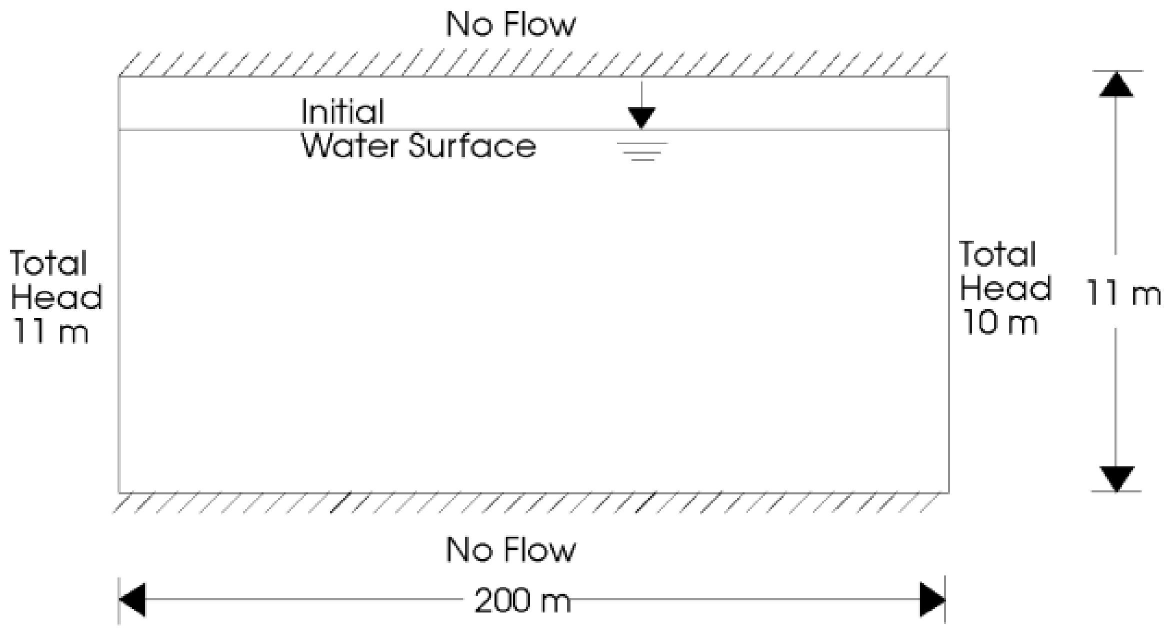

Figure 4.8.1: Schematic Illustration of Problem 4.8.

Previous QA documents (Aleman, 2007, etc.) have visually compared the results between PORFLOW and COMSOL for this problem. In this QA project, we implemented the analytical solution as described by (Polubarinova-Kochina, 1962) and further described in (Moutsopoulos, 2010) as:

$$h(x,t) = h_0 + \mathrm{erfc}\left(\frac{x}{2\sqrt{tK\hbar/n}}\right)(h_1 - h_0) \tag{4.8.1}$$

where h_1 is the water level height at time = 0 [11 m] ; h_0 is the water level everywhere else [10 m]; K is the hydraulic conductivity [0.1]); $\hbar$ is the mean of h_1 and h_0; n is the porosity of the soil [0.25]; t is time; and x is the distance from the boundary.

Listing 27 shows the PORFLOW input file for this problem. The time history of the phreatic surface due to recharge is shown in Figures 4.8.2 to 4.8.7 for the PORFLOW and analytical solutions for times of 9, 36, 81, 144, 225, and 324 days, respectively. The exact values for these solutions can be seen in Tables B.4.38 to B.4.43.

There are no differences in the results between PORFLOW versions. The differences in the Analytical and PORFLOW solutions are minimal.

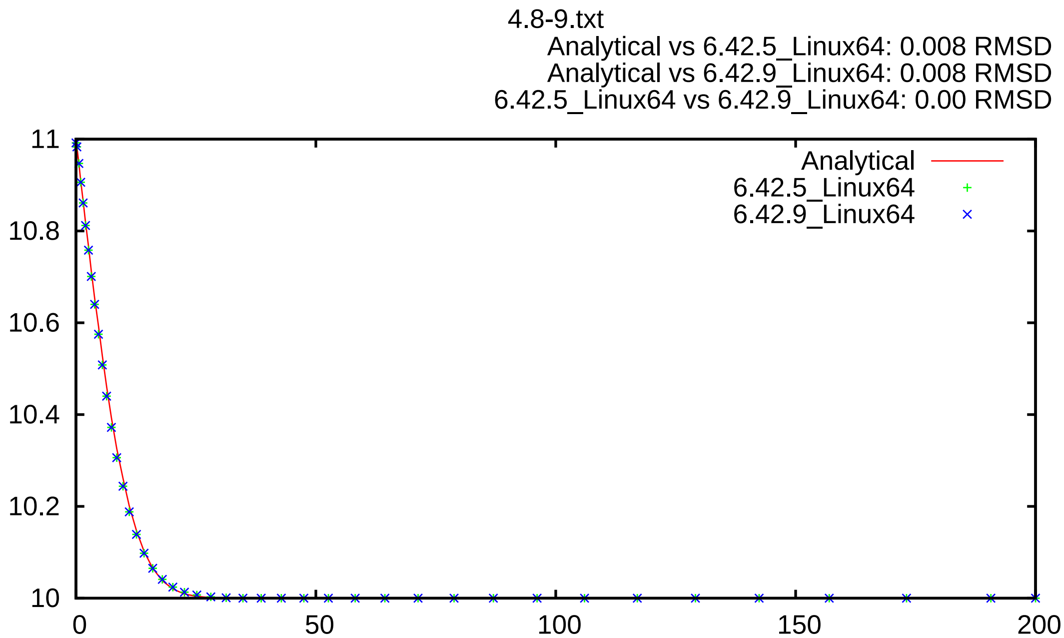

Figure 4.8.2: Time History of Phreatic Surface Due to Recharge.

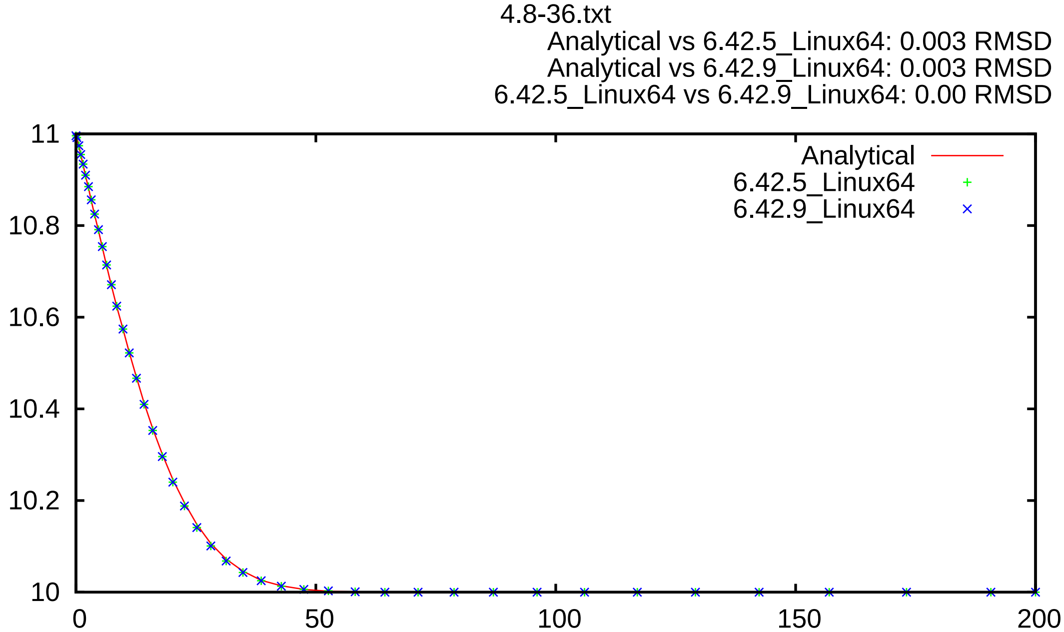

Figure 4.8.3: Time History of Phreatic Surface Due to Recharge.

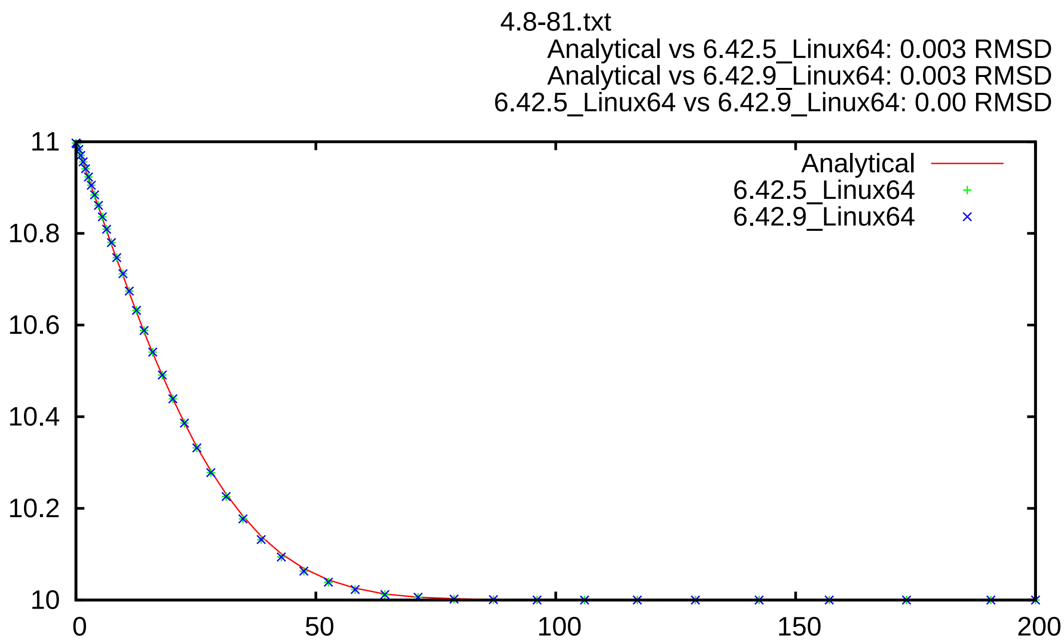

Figure 4.8.4: Time History of Phreatic Surface Due to Recharge.

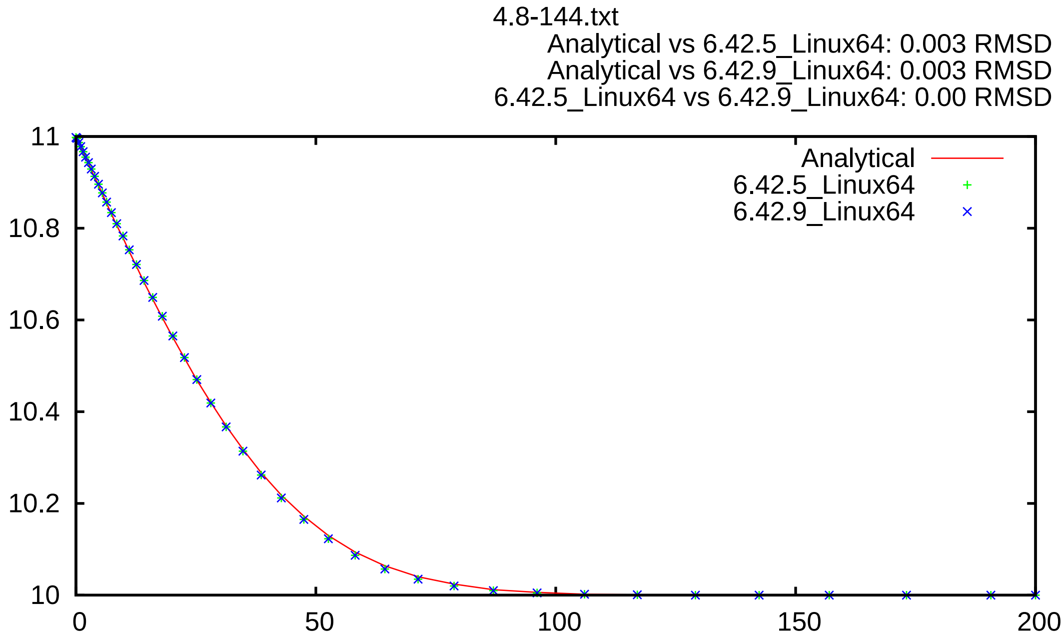

Figure 4.8.5: Time History of Phreatic Surface Due to Recharge.

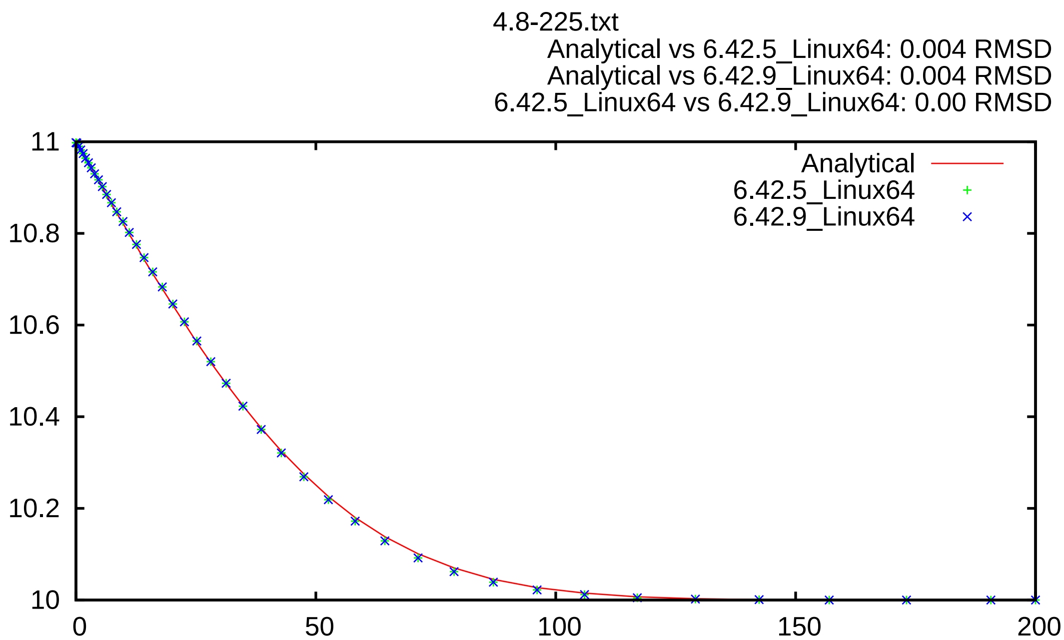

Figure 4.8.6: Time History of Phreatic Surface Due to Recharge.

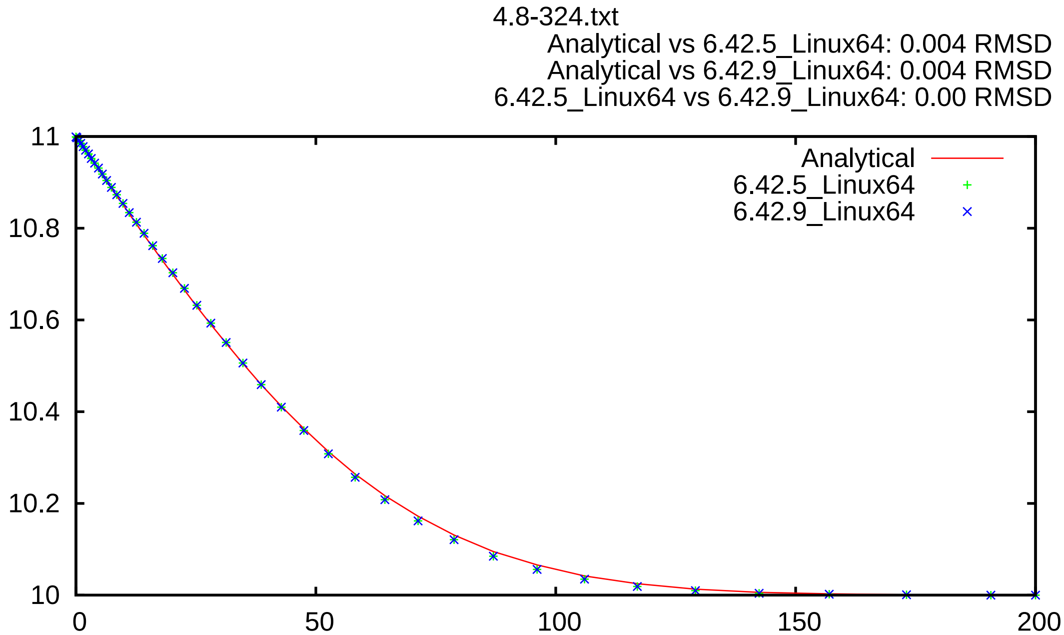

Figure 4.8.7: Time History of Phreatic Surface Due to Recharge.

4.9 Free-Surface Boussinesq Flow with Seepage

This test problem is a variation on the previous Boussinesq problem, Section 4.8. In this case, the initial phreatic surface is at 10 meters. At time 0, the water level at the left boundary is suddenly lowered to 9 meters. The schematic is shown in Figure 4.9.1. The horizontal extent of the mesh is 200 meters and the vertical extent is 10 meters. The objective is to determine the phreatic surface at selected times. It is described in detail by (Polubarinova-Kochina, 1962). This problem and description was taken from (Problem V.11 ACRI, 1994, PORFLOW Validation Report, v2.50).

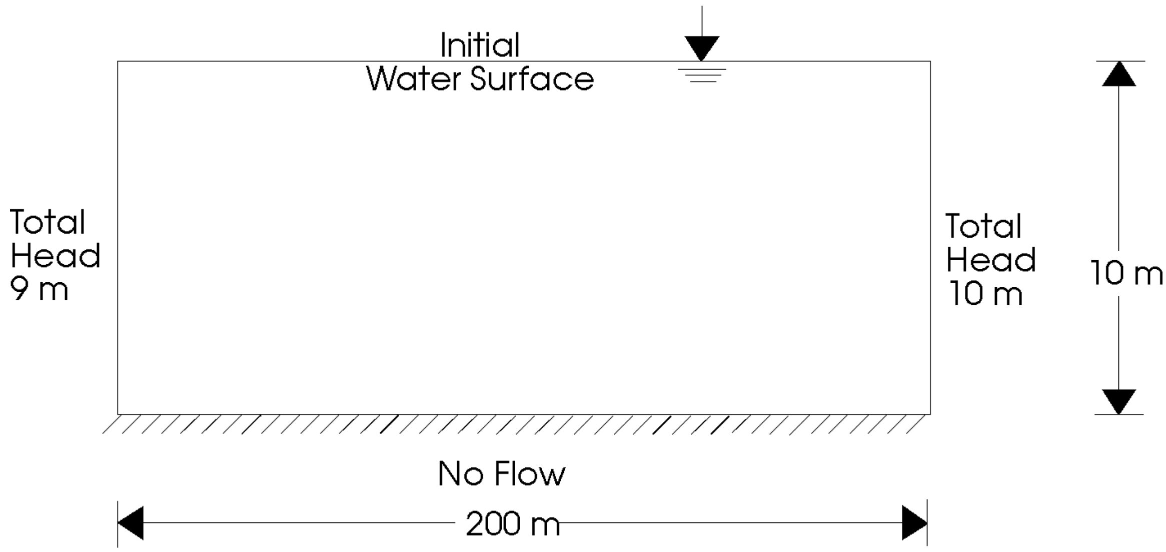

Figure 4.9.1: Schematic Illustration of Problem 4.9.

Previous QA documents (Aleman, 2007, etc.) visually compared the results between PORFLOW and COMSOL for this problem. In this QA project, we implemented the analytical solution as described by (Polubarinova-Kochina, 1962) and further described in (Moutsopoulos, 2010) as:

$$h(x,t) = h_0 + \operatorname{erfc}\left(\frac{x}{2\sqrt{tK\hbar/n}}\right)(h_1 - h_0) \tag{4.9.1}$$

where h_1 is the water level height at time = 0 [9 m] ; h_0 is the water level everywhere else [10 m]; K is the hydraulic conductivity [0.1]); $\hbar$ is the mean of h_1 and h_0; n is the porosity of the soil [0.25]; t is time; and x is the distance from the boundary.

Listing 28 shows the PORFLOW input file for this problem. The time history of the phreatic surface due to recharge is shown in Figures 4.9.2 to 4.9.7 for the PORFLOW and analytical solutions for times of 9, 36, 81, 144, 225, and 324 days, respectively. The exact values for these solutions can be seen in Tables B.4.44 to B.4.49.

There are no differences in the results between PORFLOW versions. The differences between the Analytical and PORFLOW solutions are minimal.

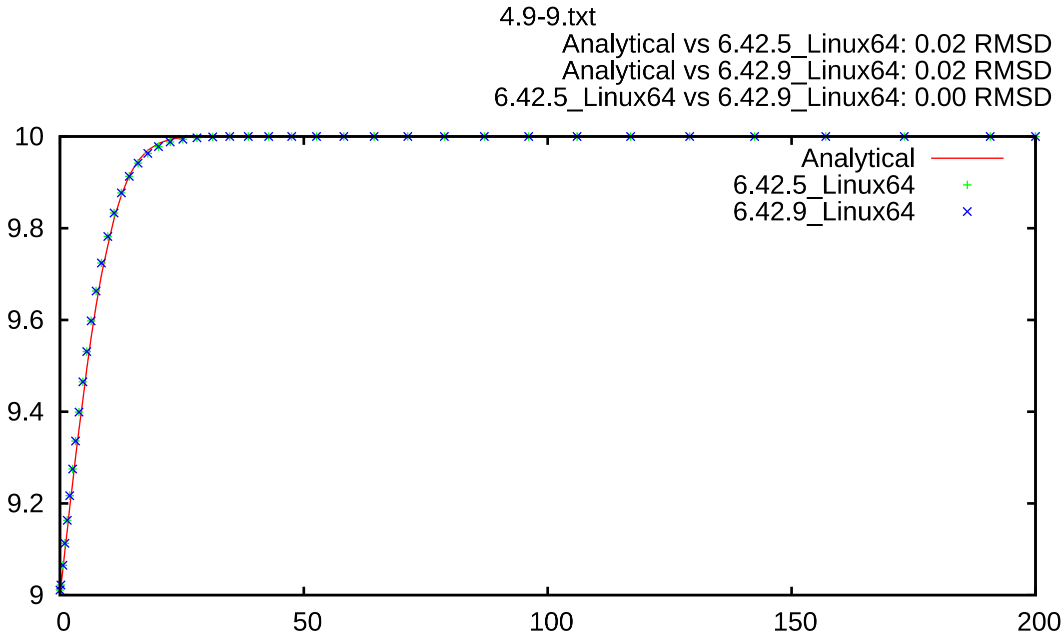

Figure 4.9.2: Time History of Phreatic Surface Due to Seepage.

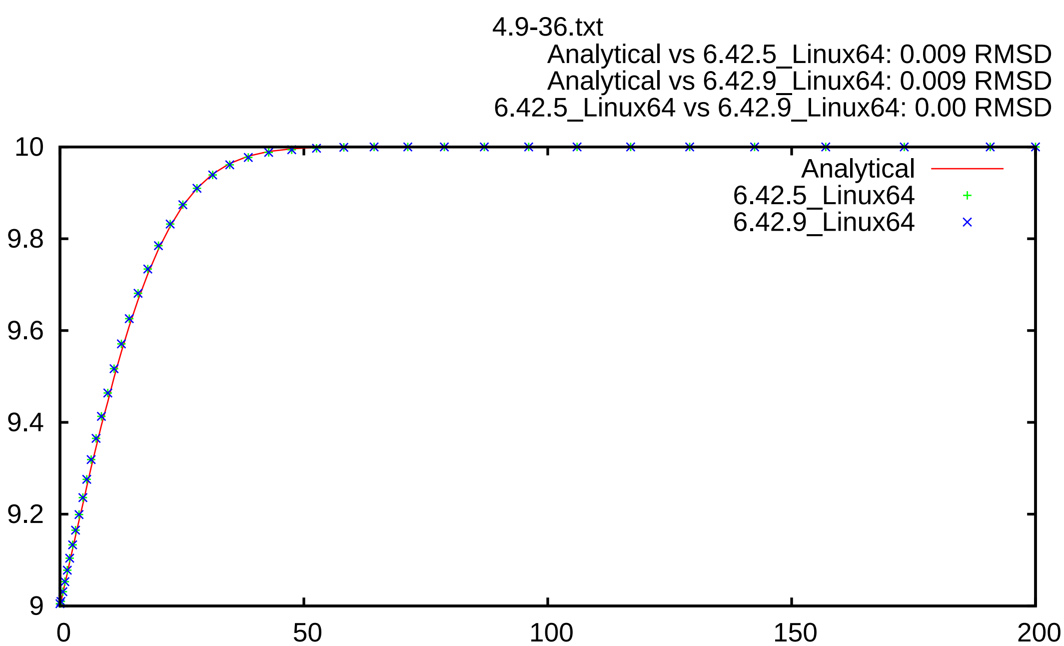

Figure 4.9.3: Time History of Phreatic Surface Due to Seepage.

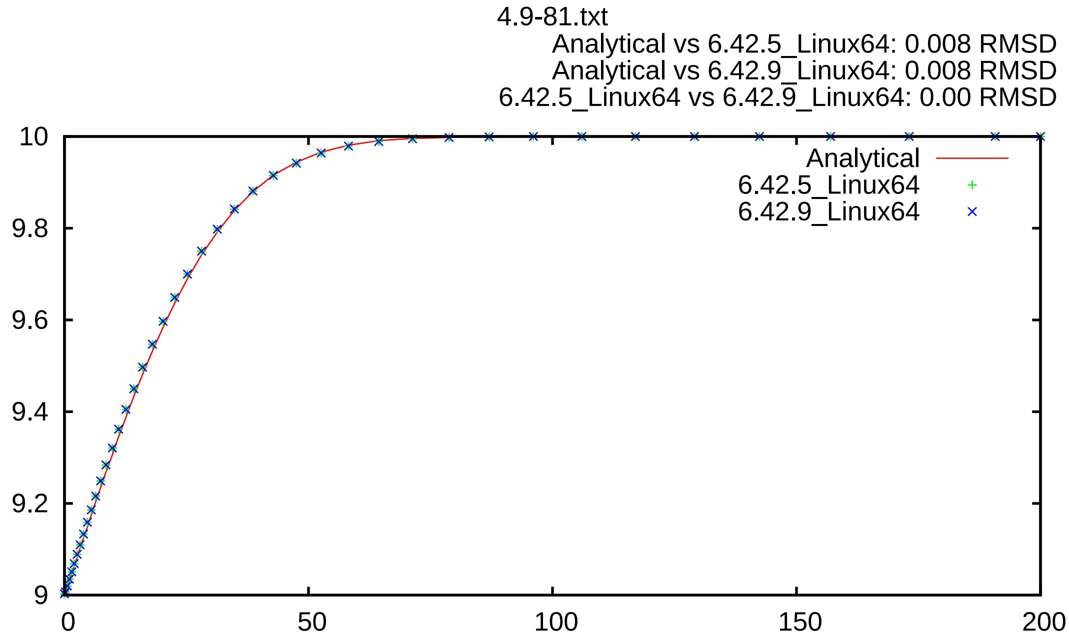

Figure 4.9.4: Time History of Phreatic Surface Due to Seepage.

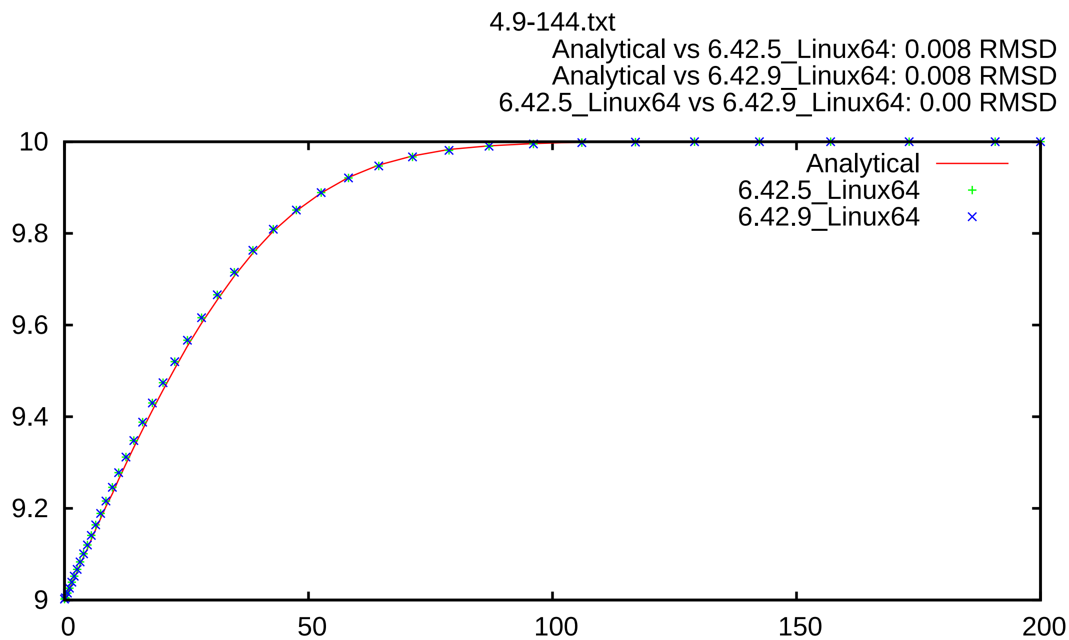

Figure 4.9.5: Time History of Phreatic Surface Due to Seepage.

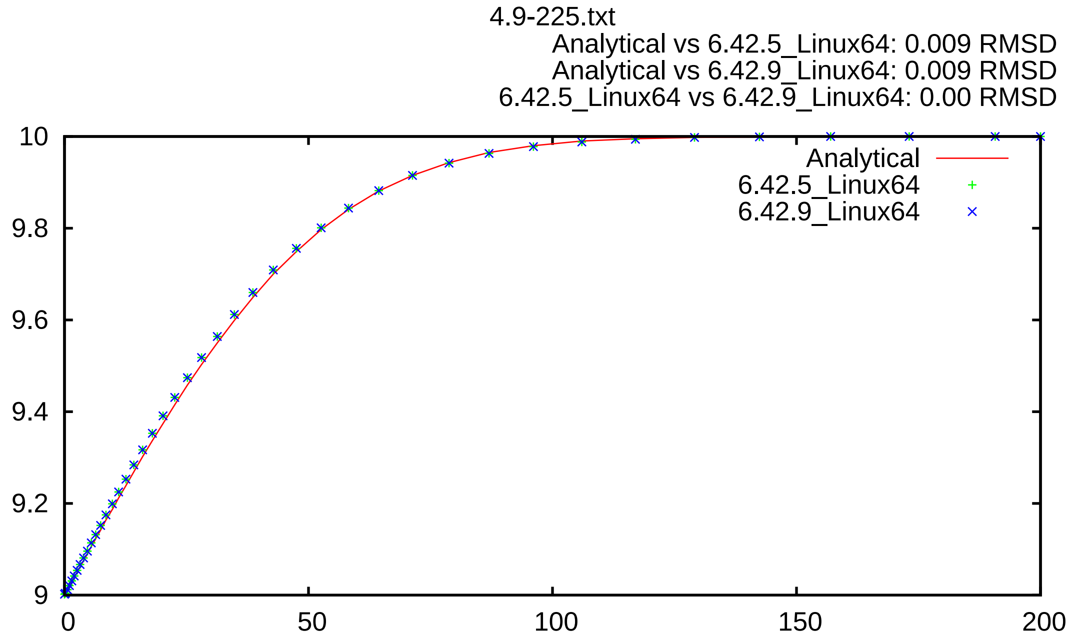

Figure 4.9.6: Time History of Phreatic Surface Due to Seepage.

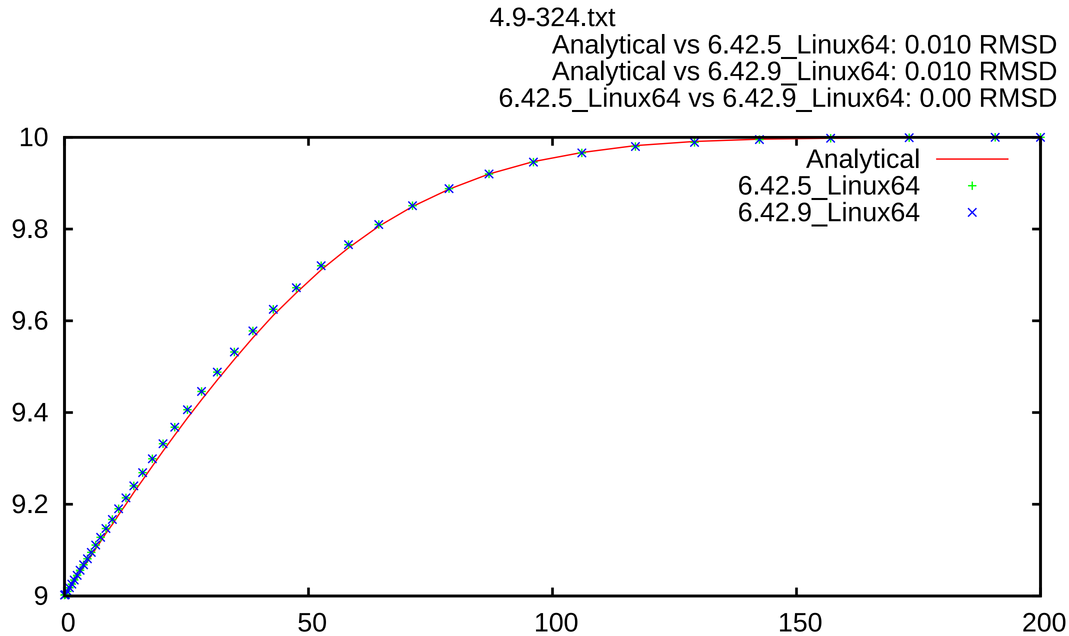

Figure 4.9.7: Time History of Phreatic Surface Due to Seepage.

4.10 Unsaturated vertical soil column

Two test cases were designed to confirm correct implementation of soil characteristic curves and Richards equation. The first test case essentially reproduces the water retention curve under no flow conditions. The second test case involves steady-state unsaturated flow at constant saturation that involves relative permeability. The soil characteristic curves chosen are for "Silt Loam G.E. 3" and are taken from (van Genuchten, 1980). The van Genuchten models for capillary suction-water retention and relative permeability are

$$S_e = \begin{cases} \dfrac{1}{[1+(\alpha\Psi)^n]^m} & \Psi > 0 \\ 1 & \Psi \leq 0 \end{cases} \tag{4.10.1}$$

$$k_{rw} = S_e^{1/2}\left[1-\left(1-S_e^{1/m}\right)^m\right]^2 \tag{4.10.2}$$

where S_e is the "effective saturation" defined by

$$S_e = \frac{S_w - S_{wr}}{1 - S_{wr}} \tag{4.10.3}$$

with empirical parameters α and m.

For "Silt Loam G.E. 3", the empirical parameters take on the values

$$S_{wr} = 0.331 \tag{4.10.4a}$$
$$\alpha = 0.129 ft^{-1} \tag{4.10.4b}$$
$$m = 0.515 \Rightarrow n = \frac{1}{1-m} = 2.0619 \tag{4.10.4c}$$

The saturated hydraulic conductivity is $K = 0.163$ ft/day (van Genuchten, 1980).

4.10.1 Water retention profile

Listing 30 shows the PORFLOW input file for this problem. Figure 4.10.1 shows the Water Saturation versus Column Elevation from the PORFLOW and the analytical solution. The exact values can be seen in Table B.4.52.

The PORFLOW values are in excellent agreement with the analytical solution.

There are no differences in the results between PORFLOW versions.

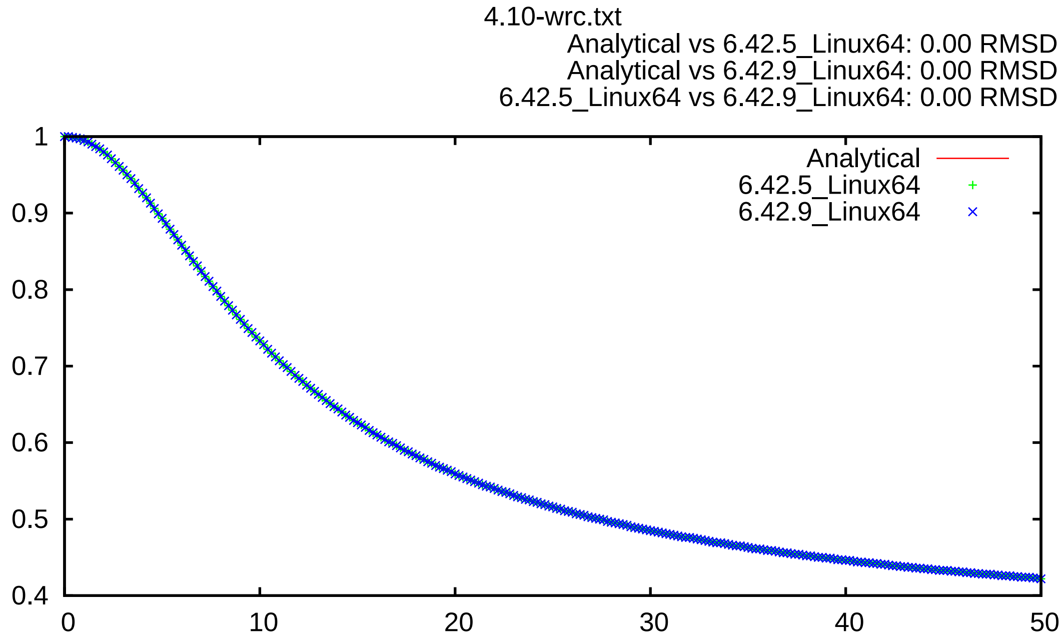

Figure 4.10.1: Comparison of Analytical Solution and PORFLOW Results

4.10.2 Steady-state unsaturated flow at constant saturation

Listing 29 shows the PORFLOW input file for this problem. For a saturation of 75%, the capillary pressure is 0.005125952 ft and the relative permeability is 0.043098523. A boundary condition of -9.377711175 ft is applied to both ends of the column, which makes the Darcy velocity throughout the column constant and equal to

$$U = k_{rw} K \frac{\delta h}{\delta x} = (0.043098523)(0.163 ft/day) \frac{50 ft}{50 ft} = 0.007025 ft/day \tag{4.10.5}$$

Figure 4.10.2 shows the Water Saturation versus Column Elevation from the PORFLOW and the analytical solution and Figure 4.10.2 shows the Darcy Velocity versus Column Elevation from the PORFLOW and the analytical solution. The exact values can be seen in Tables B.4.50 and B.4.50.

The PORFLOW values are in excellent agreement with the analytical solution.

There are no differences in the results between PORFLOW versions.

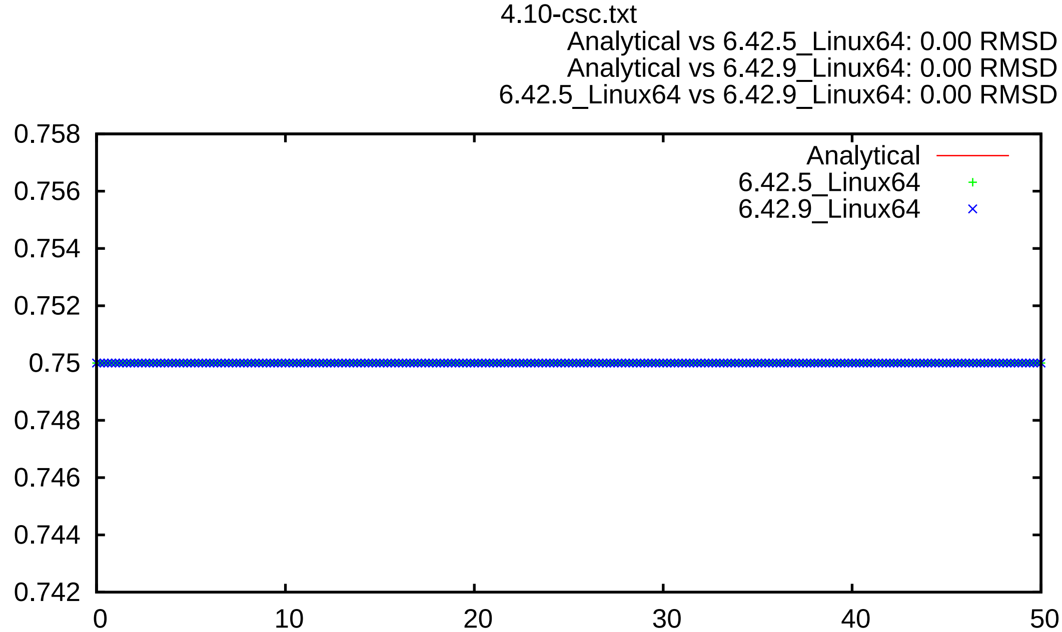

Figure 4.10.2: Water Saturation versus Column Elevation

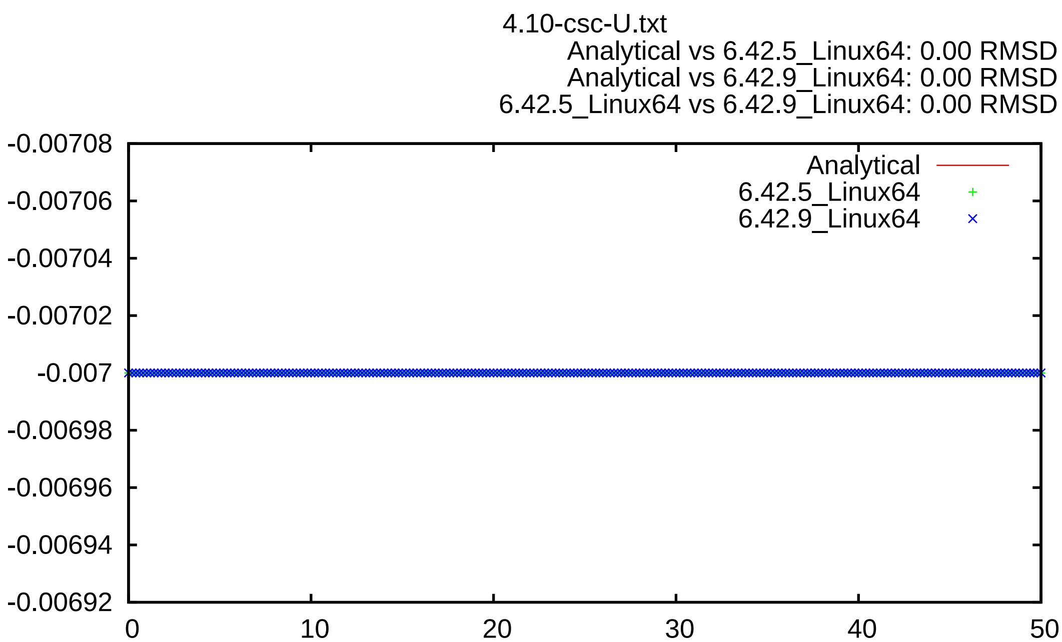

Figure 4.10.3: Darcy Velocity versus Column Elevation

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4.11 Velocity vectors

Computational grids containing cell faces that do not align with an orthogonal (e.g. Cartesian or cylindrical) coordinate system are routinely encountered in porous-medium numerical simulations.

Particle tracking is routinely performed after a porous-medium numerical flow simulation to better understand the dynamics of the flow field and/or as an approximate indication of the trajectory and timing of advective solute transport. Particle tracks are computed by integrating the velocity field from cell to cell starting from designated seed (starting) positions. Obviously an accurate velocity field is required to attain accurate particle tracks. Many numerical simulation codes report only the volumetric flowrate and/or flux (flowrate divided by area) crossing cell faces. For an orthogonal grid, the normal flux at a cell face is a component of the Darcy velocity vector for the grid coordinate system, and the pore velocity is attained by dividing by water content. For a non-orthogonal grid, the flux normal to a cell face that lies outside a coordinate plane (e.g. constant x, y, or z plane in a Cartesian system) is not a true component of the velocity vector. Nonetheless, normal fluxes are often used as Darcy velocity components, either naively or with accepted approximation.

The PORFLOW command: VELO FLUX CORR was developed by ACRI to report the true Darcy velocity vectors, which are derived from the normal fluxes to the cell faces, in both orthogonal and non-orthogonal grids, by implementing the algorithm described in (Flach, 2015). This command will enable accurate particle tracking.

The following test cases were developed to ensure the correct implementation of this command within PORFLOW. The tables show the RMSD comparison between the true Darcy velocities (reported by the VELOW FLUX CORR command) and those calculated from the normal fluxes using the algorithm described in (Flach, 2015).

The results reported by PORFLOW 6.42.9 ($P_{6.42.9}$) are the corrected Darcy velocity components. The differences between these and the calculated values are negligible.

4.11.1 2D Cartesian coordinates

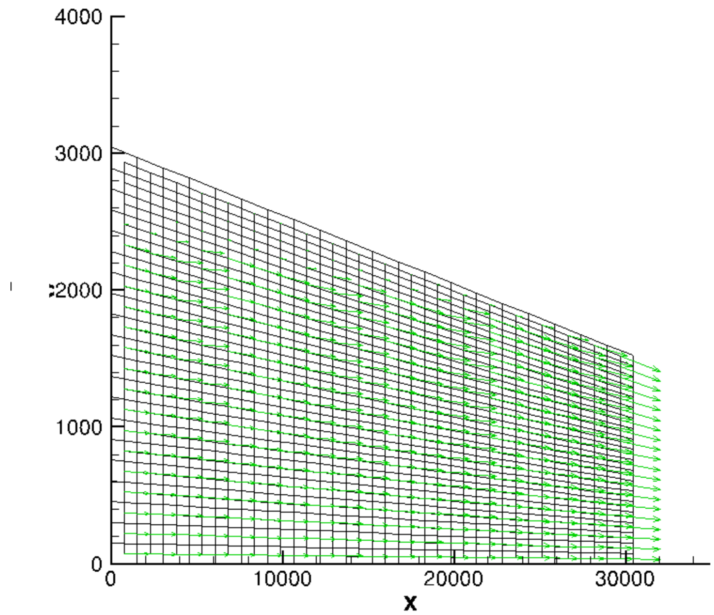

Figure 4.11.1: 2D Cartesian coordinates, sloping water table.

Listing 31 shows the PORFLOW input file for this problem.

Table 4.11.1: Output for Problem 4.11.1.1-U

$P_{6.42.5}$	$P_{6.42.9}$
7.83×10^{-9}	7.83×10^{-9}

Table 4.11.2: Output for Problem 4.11.1.1-V

$P_{6.42.5}$	$P_{6.42.9}$
5.63×10^{-10}	5.63×10^{-10}

4.11.2 2D Cylindrical coordinates

The figure for cylindrical coordinates is similar to the Cartesian coordinate (Figure 4.11.1).

Listing 32 shows the PORFLOW input file for this problem.

Table 4.11.3: Output for Problem 4.11.2.1-U

$P_{6.42.5}$	$P_{6.42.9}$
6.29×10^{-11}	6.29×10^{-11}

Table 4.11.4: Output for Problem 4.11.2.1-V

$P_{6.42.5}$	$P_{6.42.9}$
2.38×10^{-9}	2.38×10^{-9}

4.11.3 3D 1 cell deep in one direction, pseudo-2D in the orthogonal directions

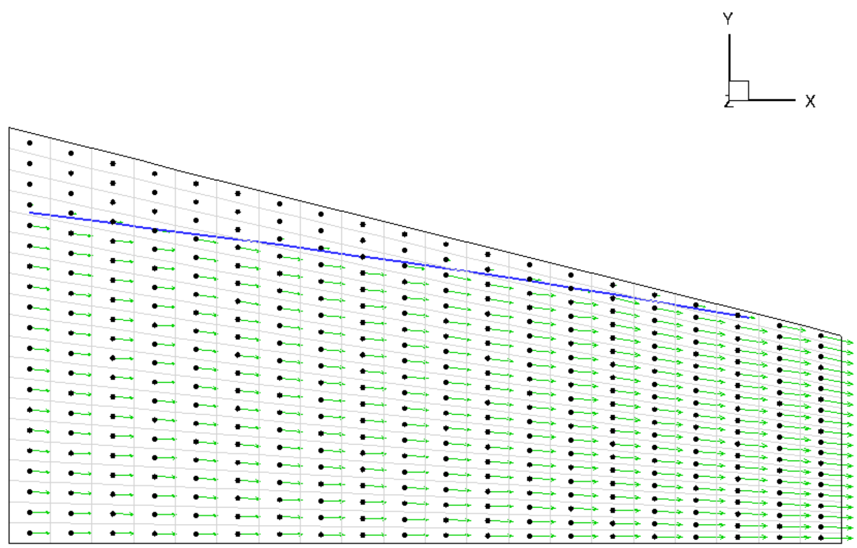

Figure 4.11.2: 3D coordinates, 1 cell deep in the Z, pseudo-2D in the X, Y; sloping water table.

Listing 33 shows the PORFLOW input file for this problem, 1 cell deep in the Z, pseudo-2D in the X, Y.

Table 4.11.5: Output for Problem 4.11.3.1-U

$P_{6.42.5}$	$P_{6.42.9}$
1.45×10^{-9}	1.45×10^{-9}

Table 4.11.6: Output for Problem 4.11.3.1-V

$P_{6.42.5}$	$P_{6.42.9}$
3.54×10^{-11}	3.54×10^{-11}

Table 4.11.7: Output for Problem 4.11.3.1-W

$P_{6.42.5}$	$P_{6.42.9}$
0.00	0.00

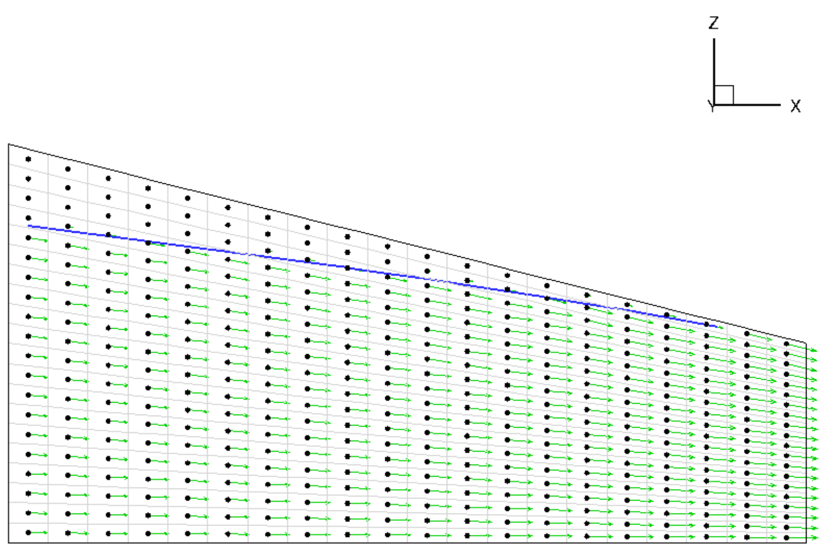

Figure 4.11.3: 3D coordinates, 1 cell deep in the Y, pseudo-2D in the X, Z; sloping water table.

Listing 34 shows the PORFLOW input file for this problem, 1 cell deep in the Y, pseudo-2D in the X, Z.

Table 4.11.8: Output for Problem 4.11.3.2-U

$P_{6.42.5}$	$P_{6.42.9}$
1.45×10^{-9}	1.45×10^{-9}

Table 4.11.9: Output for Problem 4.11.3.2-V

$P_{6.42.5}$	$P_{6.42.9}$
0.00	0.00

Table 4.11.10: Output for Problem 4.11.3.2-W

$P_{6.42.5}$	$P_{6.42.9}$
3.54×10^{-11}	3.54×10^{-11}

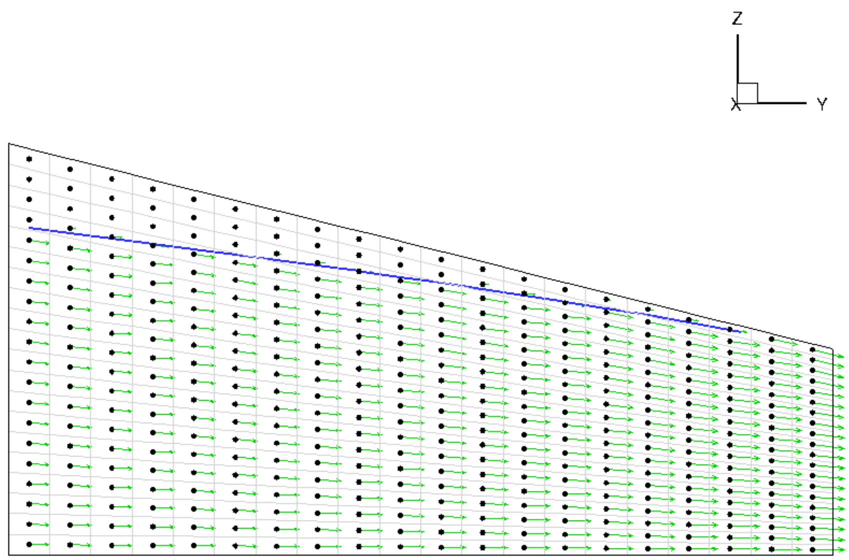

Figure 4.11.4: 3D coordinates, 1 cell deep in the X, pseudo-2D in the Y, Z; sloping water table.

Listing 35 shows the PORFLOW input file for this problem, 1 cell deep in the X, pseudo-2D in the Y, Z.

Table 4.11.11: Output for Problem 4.11.3.3-U

$P_{6.42.5}$	$P_{6.42.9}$
0.00	0.00

Table 4.11.12: Output for Problem 4.11.3.3-V

$P_{6.42.5}$	$P_{6.42.9}$
1.45×10^{-9}	1.45×10^{-9}

Table 4.11.13: Output for Problem 4.11.3.3-W

$P_{6.42.5}$	$P_{6.42.9}$
3.54×10^{-11}	3.54×10^{-11}

4.11.4 3D Rotation about the Z-axis

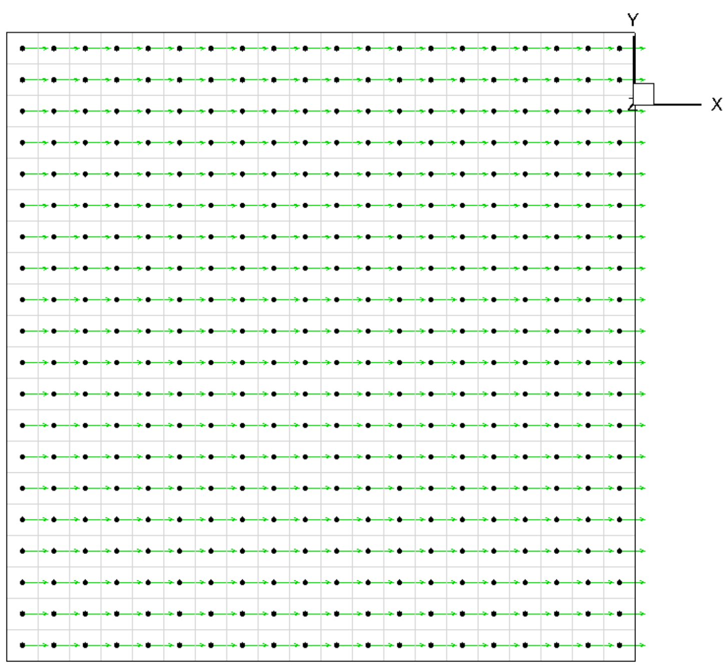

Figure 4.11.5: 3D coordinates, 1 cell deep in the Z, pseudo-2D in the X, Y; no rotation about the Z.

Listing 36 shows the PORFLOW input file for this problem, 1 cell deep in the Z, pseudo-2D in the X, Y, 0° rotation about the Z.

Table 4.11.14: Output for Problem 4.11.4.1-U

$P_{6.42.5}$	$P_{6.42.9}$
0.00	0.00

Table 4.11.15: Output for Problem 4.11.4.1-V

$P_{6.42.5}$	$P_{6.42.9}$
0.00	0.00

Table 4.11.16: Output for Problem 4.11.4.1-W

$P_{6.42.5}$	$P_{6.42.9}$
0.00	0.00

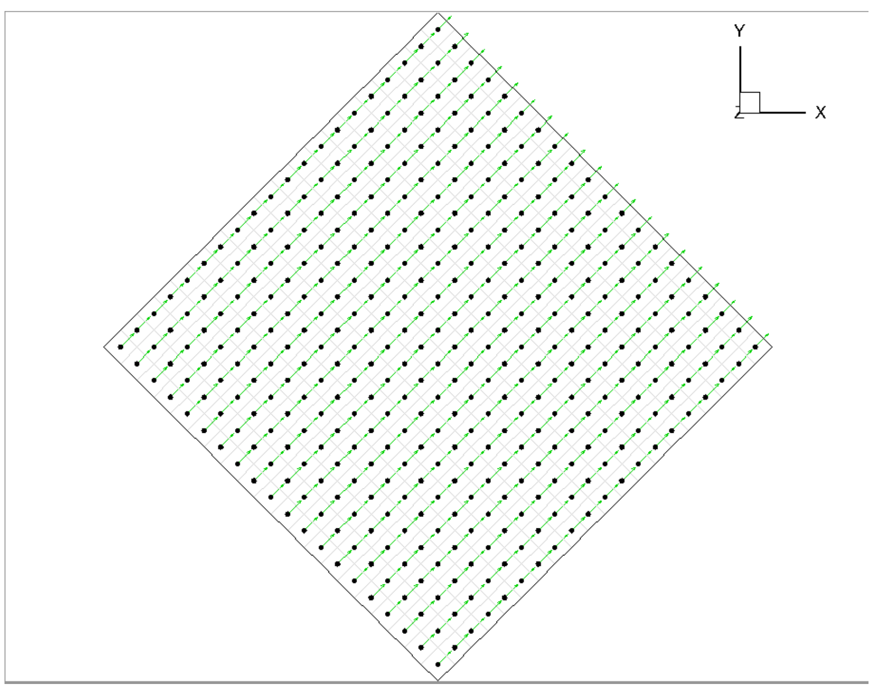

Figure 4.11.6: 3D coordinates, 1 cell deep in the Z, pseudo-2D in the X, Y; 45° rotation about the Z.

Listing 37 shows the PORFLOW input file for this problem, 1 cell deep in the Z, pseudo-2D in the X, Y, 45° rotation about the Z.

Table 4.11.17: Output for Problem 4.11.4.2-U

$P_{6.42.5}$	$P_{6.42.9}$
6.10×10^{-10}	6.10×10^{-10}

Table 4.11.18: Output for Problem 4.11.4.2-V

$P_{6.42.5}$	$P_{6.42.9}$
6.10×10^{-10}	6.10×10^{-10}

Table 4.11.19: Output for Problem 4.11.4.2-W

$P_{6.42.5}$	$P_{6.42.9}$
0.00	0.00

4.11.5 3D 6 x 6 x 6 cells with rotation about an axis and skew of grid

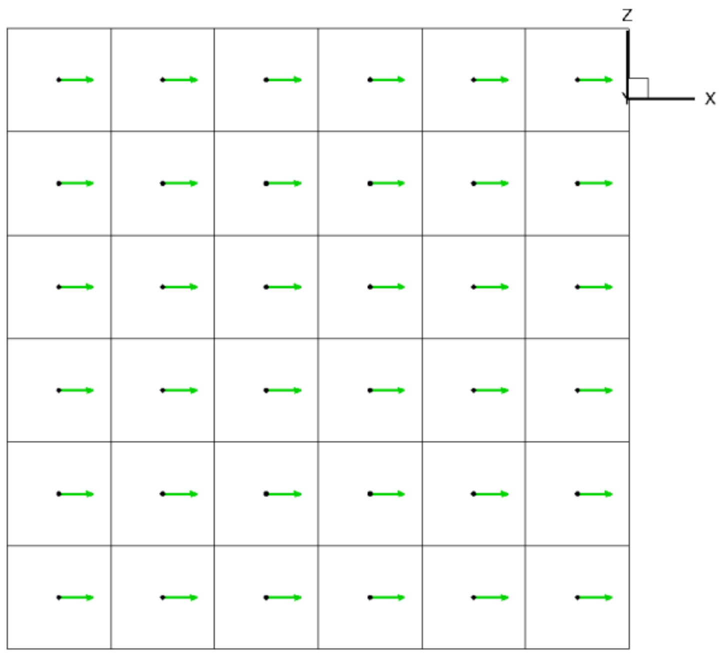

Figure 4.11.7: 3D coordinates, 6 cells in the X, Y, Z; No rotation; No skew.

Listing 38 shows the PORFLOW input file for this problem, 6 cells in the X, Y, Z, 0° rotation about the Z, No skew.

Table 4.11.20: Output for Problem 4.11.5.1-U

$P_{6.42.5}$	$P_{6.42.9}$
6.67×10^{-10}	6.67×10^{-10}

Table 4.11.21: Output for Problem 4.11.5.1-V

$P_{6.42.5}$	$P_{6.42.9}$
2.13×10^{-16}	2.13×10^{-16}

Table 4.11.22: Output for Problem 4.11.5.1-W

$P_{6.42.5}$	$P_{6.42.9}$
1.74×10^{-16}	1.74×10^{-16}

The grid cells were rotated by 30° and independently tested the X, Y, and Z orientations. Listings 39 to 41 show the PORFLOW input files for these problems.

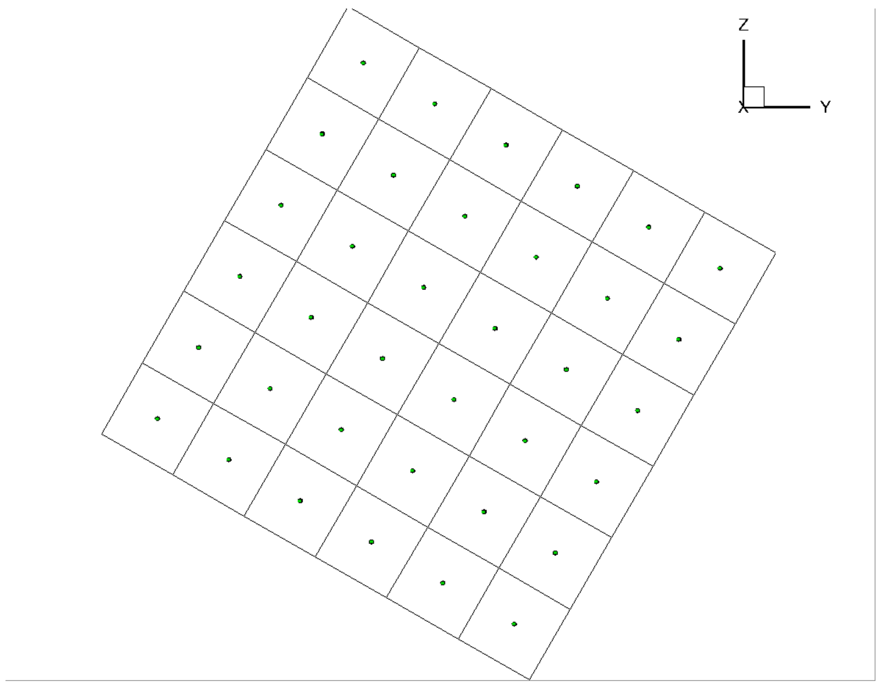

Figure 4.11.8: 3D coordinates, 6 cells in the X, Y, Z; 30° rotation about the X; No skew.

Table 4.11.23: Output for Problem 4.11.5.2-U

$P_{6.42.5}$	$P_{6.42.9}$
8.82×10^{-10}	8.82×10^{-10}

Table 4.11.24: Output for Problem 4.11.5.2-V

$P_{6.42.5}$	$P_{6.42.9}$
5.79×10^{-16}	5.79×10^{-16}

Table 4.11.25: Output for Problem 4.11.5.2-W

$P_{6.42.5}$	$P_{6.42.9}$
2.03×10^{-16}	2.03×10^{-16}

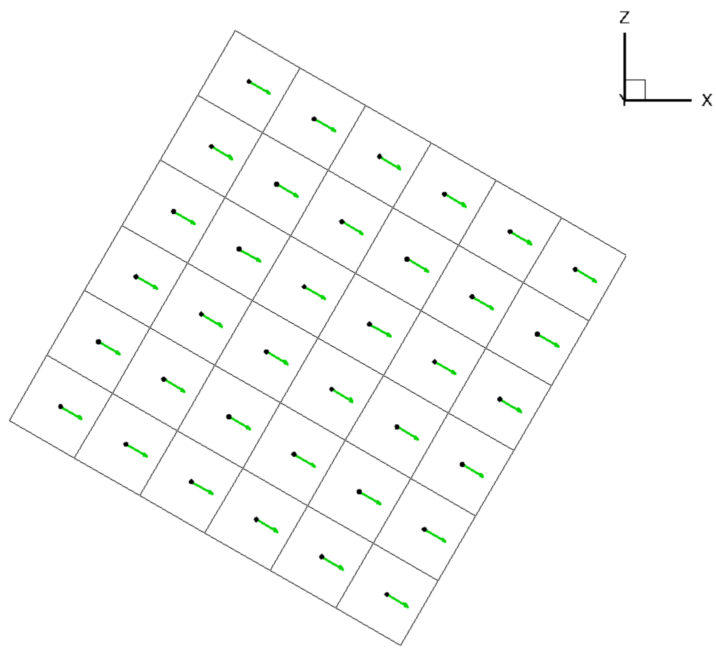

Figure 4.11.9: 3D coordinates, 6 cells in the X, Y, Z; 30°rotation about the Y; No skew.

Table 4.11.26: Output for Problem 4.11.5.3-U

$P_{6.42.5}$	$P_{6.42.9}$
8.33×10^{-10}	8.33×10^{-10}

Table 4.11.27: Output for Problem 4.11.5.3-V

$P_{6.42.5}$	$P_{6.42.9}$
2.13×10^{-16}	2.13×10^{-16}

Table 4.11.28: Output for Problem 4.11.5.3-W

$P_{6.42.5}$	$P_{6.42.9}$
6.38×10^{-10}	6.38×10^{-10}

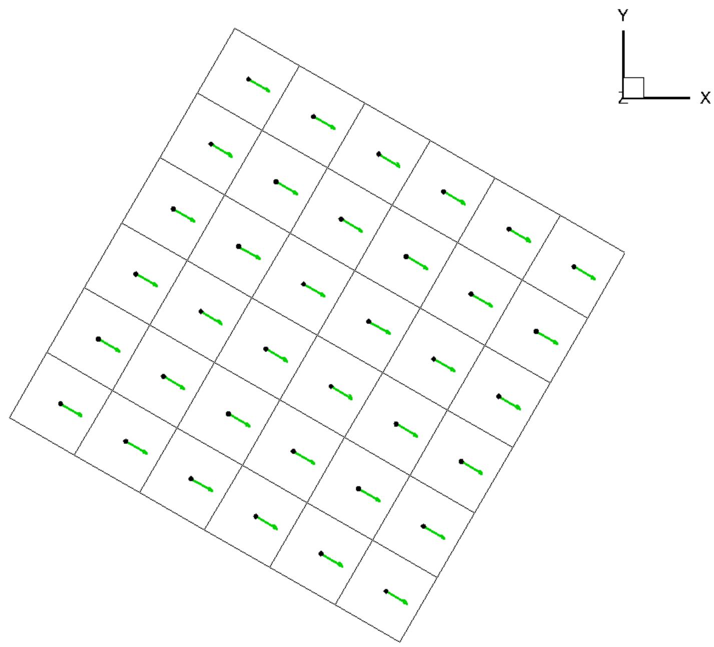

Figure 4.11.10: 3D coordinates, 6 cells in the X, Y, Z; 30° rotation about the Z; No skew.

Table 4.11.29: Output for Problem 4.11.5.4-U

$P_{6.42.5}$	$P_{6.42.9}$
8.33×10^{-10}	8.33×10^{-10}

Table 4.11.30: Output for Problem 4.11.5.4-V

$P_{6.42.5}$	$P_{6.42.9}$
6.38×10^{-10}	6.38×10^{-10}

Table 4.11.31: Output for Problem 4.11.5.4-W

$P_{6.42.5}$	$P_{6.42.9}$
1.74×10^{-16}	1.74×10^{-16}

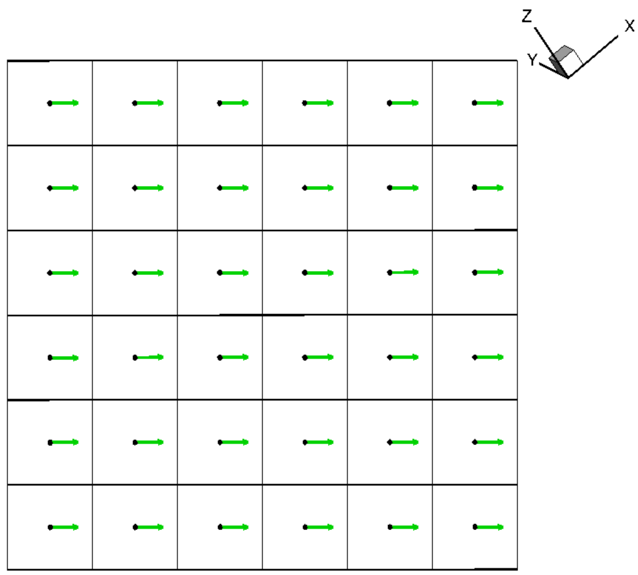

Figure 4.11.11: 3D coordinates, 6 cells in the X, Y, Z; 30° rotation about the X, Y, and Z; No skew.

Listing 42 shows the PORFLOW input file for this problem, 6 cells in the X, Y, Z, 30° rotation about the X, Y, Z; no skew.

Table 4.11.32: Output for Problem 4.11.5.5-U

$P_{6.42.5}$	$P_{6.42.9}$
6.60×10^{-10}	6.60×10^{-10}

Table 4.11.33: Output for Problem 4.11.5.5-V

$P_{6.42.5}$	$P_{6.42.9}$
5.49×10^{-10}	5.49×10^{-10}

Table 4.11.34: Output for Problem 4.11.5.5-W

$P_{6.42.5}$	$P_{6.42.9}$
5.14×10^{-10}	5.14×10^{-10}

We skewed the grid cells by 50% and independently tested the X, Y, and Z orientations. Listings 43 to 45 show the PORFLOW input files for these problems.

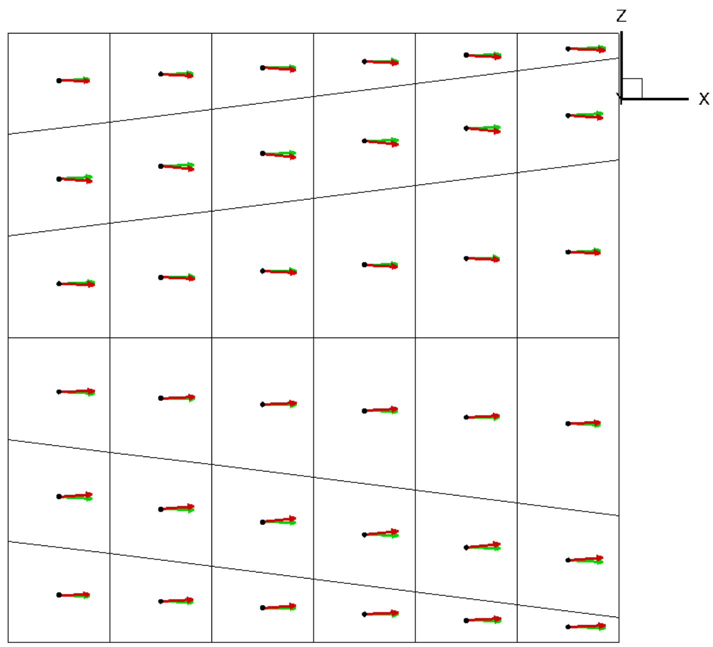

Figure 4.11.12: 3D coordinates, 6 cells in the X, Y, Z; No rotation; 50% skew in the Z.

Table 4.11.35: Output for Problem 4.11.5.6-U

$P_{6.42.5}$	$P_{6.42.9}$
2.19×10^{-9}	2.19×10^{-9}

Table 4.11.36: Output for Problem 4.11.5.6-V

$P_{6.42.5}$	$P_{6.42.9}$
2.11×10^{-16}	2.11×10^{-16}

Table 4.11.37: Output for Problem 4.11.5.6-W

$P_{6.42.5}$	$P_{6.42.9}$
9.30×10^{-11}	9.30×10^{-11}

Similar image as in Figure 4.11.12, with no rotation; 50% skew in the Y.

Table 4.11.38: Output for Problem 4.11.5.7-U

$P_{6.42.5}$	$P_{6.42.9}$
2.19×10^{-9}	2.19×10^{-9}

Table 4.11.39: Output for Problem 4.11.5.7-V

$P_{6.42.5}$	$P_{6.42.9}$
9.30×10^{-11}	9.30×10^{-11}

Table 4.11.40: Output for Problem 4.11.5.7-W

$P_{6.42.5}$	$P_{6.42.9}$
1.75×10^{-16}	1.75×10^{-16}

Similar image as in Figure 4.11.12, with no rotation; 50% skew in the Y and Z.

Table 4.11.41: Output for Problem 4.11.5.8-U

$P_{6.42.5}$	$P_{6.42.9}$
1.60×10^{-9}	1.60×10^{-9}

Table 4.11.42: Output for Problem 4.11.5.8-V

$P_{6.42.5}$	$P_{6.42.9}$
1.23×10^{-10}	1.23×10^{-10}

Table 4.11.43: Output for Problem 4.11.5.8-W

$P_{6.42.5}$	$P_{6.42.9}$
1.23×10^{-10}	1.23×10^{-10}

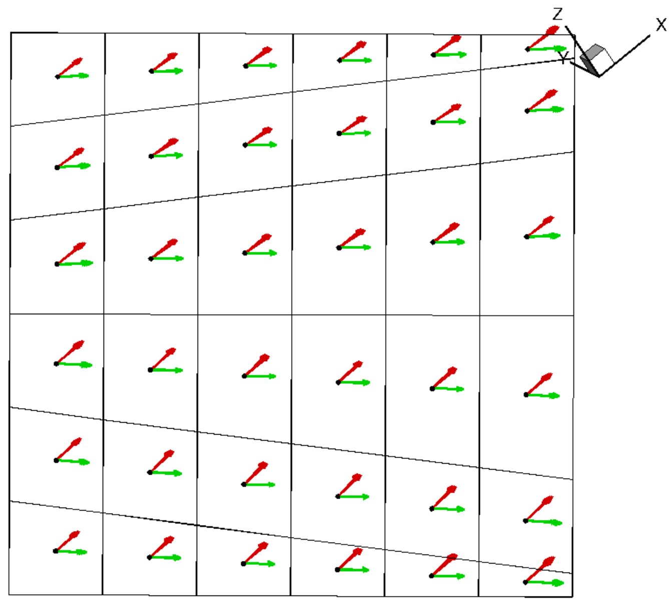

Figure 4.11.13: 3D coordinates, 6 cells in the X, Y, Z; 30°rotation in the X, Y, and Z; 50% skew in the Y and Z.

Listing 46 show the PORFLOW input file for this problem.

Table 4.11.44: Output for Problem 4.11.5.9-U

$P_{6.42.5}$	$P_{6.42.9}$
7.58×10^{-10}	7.58×10^{-10}

Table 4.11.45: Output for Problem 4.11.5.9-V

$P_{6.42.5}$	$P_{6.42.9}$
5.40×10^{-10}	5.40×10^{-10}

Table 4.11.46: Output for Problem 4.11.5.9-W

$P_{6.42.5}$	$P_{6.42.9}$
5.85×10^{-10}	5.85×10^{-10}

4.12 Undefined corner nodes

An error was discovered in how PORFLOW handles corner-nodes. When the material properties are unspecified for the corner nodes, a floating point error occurs and PORFLOW aborts. This error was corrected in PORFLOW version 6.42.3

Listing 47 shows the PORFLOW input file for this problem.

Table 4.12.1 shows the comparison between the two PORFLOW versions

Table 4.12.1: Output for Problem 4.12

$P_{6.42.5}$	$P_{6.42.9}$
PASS	PASS

5 Group 2: Contaminant Transport Problems

In the following three sections, we present one, two, and three dimensional solute transport examples, respectively. They are classical cases ideal for studying the basic behavior of an advection-dispersion equation solver. In the one-dimensional case, we shall test the equation solver in various ways by varying its control parameters over a wide range of values. This enables modelers to see the inherent weaknesses of this solver and help to minimize such weaknesses in their own problems. The majority of behaviors presented below are observed in all advection-dispersion solvers. Ultimately, the users must rely on their own experience and it is highly recommended that several transport simulations of the same problem be performed. Comparisons to these simulations will provide excellent insight into how adequate and optimal their solution is. The test cases selected all have analytic solutions for a clear picture as to how well PORFLOW handles these transport conditions.

5.1 One-Dimensional Saturated Solute Transport in a Uniform Flow Field

This problem deals with one-dimensional advection-dispersion of a non-conservative solute species through a semi-infinite porous medium and is used to demonstrate the impact that various PORFLOW options (i.e., numerical approximations) have on its solution. The 1D advection-dispersion equation is ideal for testing an algorithm's behavior over a wide range of conditions. A physical schematic of this problem is shown in Figure 5.1.1. As illustrated, a non-conservative contaminant is continuously released from a fully penetrating channel into a shallow confined aquifer unit whose groundwater flow is assumed uniform. Both hydrodynamic dispersion and molecular diffusion are allowed, as well as the possibility of radioactive decay and/or adsorption of the species. It is assumed that the contaminant concentration level in the neighboring reservoir remains constant, the aquifer's flow rate and properties (such as porosity, soil type, water saturation) are uniform and constant.

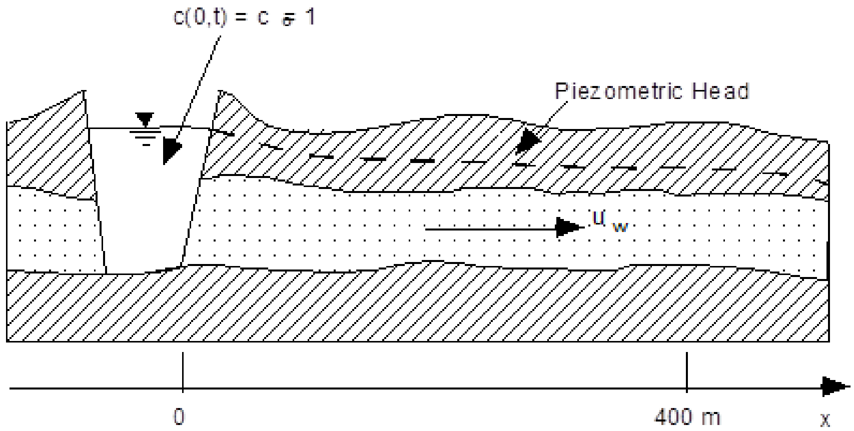

Figure 5.1.1: Schematic diagram for 1D solute transport in a confined aquifer.

The conservative form of the multi-dimensional advection-dispersion equation for solute transport through a variably saturated porous media with radioactive decay and point sources is given as

$$\frac{\partial}{\partial t}(\theta_e R c) + \nabla(Uc) = \nabla(\Gamma \nabla c) - \theta_e R \lambda c + qc^* \tag{5.1.1}$$

where θ_e is the effective or mobile water content, $S_w\phi$; R is the retardation factor, $1 + \rho_b k_b/\theta_e$; ρ_b is the bulk soil density, $\rho_s(1-\phi)$; ρ_s is the particle density; k_d is the distribution coefficient; U is the Darcy velocity vector; c is the solute concentration; Γ is the apparent hydrodynamic dispersion tensor, $\theta_e D$; λ is the radioactive decay constant, $\ln(2)/t_{1/2}$; q is the volumetric flow source per unit volume of porous medium; and c^* is the solute concentration evaluated within source/sink flow term.

Equation (5.1.1) is the conservative form and the non-conservative form is considered more amendable to spatial discretization. To accomplish the transformation, use is made of the flow (mixture mass balance) equation in its incompressible form

$$\frac{\partial \theta_e}{\partial t} = -\nabla U + q \tag{5.1.2}$$

Substituting Equation (5.1.2) into Equation (5.1.1), with expanded advective and mass accumulation terms, yields

$$\theta_e R \frac{\partial c}{\partial t} + c\frac{\partial \theta_e}{\partial t} + c\frac{\partial(\rho_b k_d)}{\partial t} + U\nabla c - c\frac{\partial \theta_e}{\partial t} + qc = \nabla(\theta_e D) - \theta_e R \lambda c + qc^* \tag{5.1.3}$$

Assuming that the time derivative of $\rho_b k_d$ is negligible, eq. (5.1.3) reduces to

$$\theta_e R \frac{\partial c}{\partial t} + U\nabla c = \nabla(\theta_e D) - \theta_e R \lambda c - q(c - c^*) \tag{5.1.4}$$

Taking the 1D form of eq. (5.1.4) and assuming that no point sources/sinks exist within the domain, constant water saturation level, and that material coefficients are constants, results in

$$\frac{\partial c}{\partial t} = D'_{xx}\frac{\partial^2 c}{\partial x^2} - u'_x\frac{\partial c}{\partial x} - \lambda c \tag{5.1.5}$$

where

$$u_x = \frac{U_x}{\theta_e} \tag{5.1.6a}$$
$$u'_x = \frac{u_x}{R} \tag{5.1.6b}$$
$$D_{xx} = \alpha_L u_x + \theta_e \tau D_m \tag{5.1.6c}$$
$$D'_{xx} = \frac{D_{xx}}{R} \tag{5.1.6d}$$

where α_L is longitudinal dispersivity; τ is the tortuosity of the porous medium; and D_m is the bulk molecular diffusion coefficient.

For our semi-infinite confined aquifer the initial conditions are:

$$c(x,0) = 0 \tag{5.1.7}$$

and the boundary conditions are:

$$c(0,t) = c_0 \tag{5.1.8a}$$
$$c(\infty,t) = 0 \tag{5.1.8b}$$

For the first boundary condition we are assuming that at x = 0 the contaminant concentration reaches its ultimate value c_0 immediately upon commencement of flow and remains at that value throughout all positive times (x = 0 boundary represents an inflow boundary). The second boundary condition is equivalent to assuming that the dispersive flux of solute is 0 at $+\infty$ or

$$\lim_{x\to\infty}\left(\frac{\partial c}{\partial x}\right) \tag{5.1.9}$$

Equation (5.1.5), a linear partial differential equation subject to the initial and boundary conditions given by Equations (5.1.7) to (5.1.9) can be solved by applying Laplace and Fourier transforms. The general solution has been derived by (Grobner and Hofreiter, 1950) and takes the form:

$$c(x,t) = \frac{1}{2}c_0 \exp\left(\frac{u'_x x}{2D'_x x}\right)\left[\exp(-x\beta)\,\mathrm{erfc}\left(\frac{x+\sigma t}{2\sqrt{D'_{xx}t}}\right) + \exp(x\beta)\,\mathrm{erfc}\left(\frac{x+\sigma t}{2\sqrt{D'_{xx}t}}\right)\right] \tag{5.1.10}$$

where

$$\beta^2 = \left(\frac{u'_x}{2D'_{xx}}\right)^2 + \frac{\lambda}{D'_{xx}} \tag{5.1.11a}$$
$$\sigma^2 = (u'_x)^2 + 4\lambda D'_{xx} \tag{5.1.11b}$$

When there is no radioactive decay ($\lambda = 0$), Equation (5.1.10) reduces to

$$c(x,t) = \frac{1}{2}c_0 \left[\operatorname{erfc}\left(\frac{x - u'_x t}{2\sqrt{D'_{xx} t}} \right) + \exp\left(\frac{u'_x x}{D'_{xx}} \right) \operatorname{erfc}\left(\frac{x + u'_x t}{2\sqrt{D'_{xx} t}} \right) \right] \tag{5.1.12}$$

derived also by (Ogata and Banks, 1961). The absence of adsorption is achieved by setting the retardation factor to unity ($R = 1, k_d = 0$). Note that the original derivation by (Grobner and Hofreiter, 1950) was performed on the limited case of a saturated media in the absence of adsorption. The more general case presented here results in the same solution but is based upon retarded material coefficients.

Listings 48 to 62 show the PORFLOW input files for this problem and the various parameters used in those simulations. Those parameters are presented in Tables 5.1.1 to 5.1.4 for the base case. At the channel inlet boundary (left face), the concentration of solute in the incoming water is set to 1.0 kg/m^3. Due to the finite overall length of our mesh, at the outflow boundary (right face) the dispersive flux is set to 0, while the advective flux is calculated as part of the solution. Because this is a 1D problem, solute concentration gradients do not exist in the transverse directions (y and z directions). The aquifer is assumed to be completely saturated.

Table 5.1.1: Values of the Physical Parameters used in the 1-D Transport Simulations

Physical parameters	Base Case
Darcy velocity, U_x	1.0 m/d
Porosity, ϕ	0.25
Longitudinal dispersivity, α_L	5.0 m
Apparent molecular dispersion coefficient, $\theta_e \tau D_m$	0.0 m^2/d
Water saturation, S_w	1.0
Radioactive decay constant, λ	0.0 d^{-1}
Soil density, ρ_s	1.0 kg/m3
Solute distribution coefficient, k_d	0.0 m^3/kg
Boundary solute concentration, c_0	1.0 kg/m^3

Table 5.1.2: Values of the Mesh used in the 1-D Transport Simulations

Grid specifics	Base Case
x grid spacing, Δx	2 m
y grid spacing, Δy	0.5 m
Number nodes in x-direction	201
Number nodes in y-direction	3
Longitudinal length	400 m

Table 5.1.3: Values of the Time Steps used in the 1-D Transport Simulations

Time Steps	Base Case
Time duration	50 days
number time-steps	500
time-step size, Δt	0.1 d

Table 5.1.4: Values of the Key Computed Parameters used in the 1-D Transport Simulations

Key Computed Parameters	Base Case
Retardation factor, R	1.0
Bulk soil density, ρ_b	0.75 kg/m^3
Phasic velocity, u_x	4.0 m/d
Retarded phasic velocity, u'_x	4.0 m/d
Retarded longitudinal dispersion coefficient, D'_{xx}	20.0 m^2/d
Cell Fourier number, Fo_x	0.5
Cell Courant number, Co_x	0.2
Cell Peclet number, Pe_x	0.4

For this problem several simulations were performed. As summarized in Table 5.1.5, simulations were performed for a base case and then runs were made varying certain key physical parameters and PORFLOW options to demonstrate their impact on the results. For each simulation, a transient calculation was performed for a 50-day duration and the results from PORFLOW at two points in time (25 and 50 days) are compared to the analytical solution given by Equation 5.1.7. As shown in Table 5.1.4, a broad range of cell Fourier, cell Courant, and cell Peclet numbers were tested. For understanding behavior, stability and accuracy issues, these are very important quantities to consider.

Table 5.1.5: Summary of Simulations Performed (Base Case and Variations) on the One-Dimensional Transport Problem.

PORFLOW Options	Base Case	A	B	C	D	E	F	G	H	I	J	K	L
Integration scheme													
HYBRID	x	x	x	x	x	x	x	x	x	x	x	x	x
CONDIF												x	
QUICK												x	
Central Differencing												x	
Property averaging													
Harmonic	x	x	x	x	x	x	x	x	x	x	x	x	x
Arithmetic													x
Geometric													x
Upwind													x
Mesh Sizes													
Element length													
$\Delta x = 2$ m	x	x	x	x				x	x	x	x	x	x
$\Delta x = 20$ m					x								
$\Delta x = 40$ m						x							
$\Delta x = 80$ m							x						
time-step size													
$\Delta t = 0.1$ d	x	x	x	x	x	x	x				x	x	x
$\Delta t = 5$ d								x					
$\Delta t = 10$ d									x				
$\Delta t = 25$ d										x			
Physical Parameters													
Longitudinal horizontal dispersivity													
$\alpha_L = 5$ m	x	x	x	x	x	x	x	x	x	x			x
$\alpha_L = 0.01$ m											x	x	
radioactive decay coef.													
$\lambda = 0.0$ d^{-1}	x	x			x	x	x	x	x	x	x	x	x
$\lambda = 0.01$ d^{-1}			x	x									
Solute distribution coef.													
$k_d = 0.0$ m^3/kg	x		x		x	x	x	x	x	x	x	x	x
$k_d = 0.3333$ m^3/kg		x		x									

The results of the simulations (both numerical and analytical) are shown in Figures 5.1.2 to 5.1.39. Each figure corresponds to a different combination of parameters (e.g., spatial and temporal approximations). These results are also presented in tabular form for comparison in Tables B.5.1 to B.5.38.

The results presented in Figures 5.1.2 and 5.1.3 represent our base case. The concentration profiles at both times compare very close to the analytical profiles. Once the simulation time has reached 50 days, sufficient time has elapsed such that the concentration profile shape is unaffected by the inlet boundary condition and the mean transport distance (location of 50% of the solute) corresponds to the retarded velocity times elapsed time. For the base case at 50 days, the mean distance is 200 m (i.e., 4.0 m/d x 50 d). Characteristic oscillatory overshoot or undershoot, exhibited by second-order accurate centered spatial differencing, is not observed for the base case because the local cell Peclet number does not exceed 2.

By adjusting the solute distribution coefficient such that the retardation factor becomes 2 (Case A), the retarded dispersion and velocity are halved. These results can be seen in Figures 5.1.4 and 5.1.5 where (a) the mean transport distance at 50 days is now 100 m and (b) the spread of the plume has been greatly reduced. Compare the results in Figures 5.1.4 and 5.1.5 to Figures 5.1.2 and 5.1.3.

By employing a non-zero radioactive decay coefficient such that the solute now becomes a non-conservative transport species (Case B), the solute concentration profiles are reduced especially at the higher concentration levels. These results can be seen in Figures 5.1.6 and 5.1.7. as compared to Figures 5.1.2 and 5.1.3.

By applying both retardation and radioactive decay coefficients simultaneously (Case C), we observe the composite effect as shown in Figures 5.1.8 and 5.1.9. These results show (a) the mean transport distance at 50 days is now less than 100 m and (b) the concentration profile has been reduced at the higher concentration levels.

The effect of varying the grid size spacing (Cases D, E, and F) can be seen in Figures 5.1.10 to 5.1.15. As shown, the "effective", numerical plus mechanical, dispersion coefficient continues to increase as the grid spacing increases. Thus, resolution of the concentration front diminishes. The cell Peclet numbers are 4, 8 and 16 for mesh sizes of Δx = 20 m, 40 m and 80 m, respectively and we can begin to see significant undershoot and overshoot occurring.

The effect of varying the time-step size (Cases G, H, and I) can be seen in Figures Figures 5.1.16 to 5.1.21. As shown, the "effective", numerical plus mechanical, dispersion coefficient continues to increase as the time-step size increases. Thus, resolution of the concentration front diminishes. At the time-step sizes Δt = 5, 10 and 25 days, the cell Courant and Fourier numbers are exceeding unity and we can begin to see significant undershoot and overshoot occurring.

To see a strong effect of oscillation near the concentration front two cases (Cases J and K) were performed at a cell Peclet number of 1000. This high of a cell Peclet number results in the transport of nearly square wave (i.e., plug flow) over the time and distance ranges of interest here. Using the central differencing scheme for integration of the transport equation (Case J) we see oscillatory behavior as illustrated in Figures 5.1.22 and 5.1.23. The central spatial differencing scheme attempt to capture the very steep concentration resulted in upstream oscillations. These oscillations can be minimized or eliminated by refining the grid spacing. We will restrict ourselves to the grid spacing use in the base case. Applying the default HYBRID, CONDIF or Modified QUICK nodal integration schemes (Case K) eliminates the oscillations but results in a significant increase in artificial dispersion, see Figures 5.1.24 to 5.1.31.

PORFLOW offers several options for averaging of material properties from node to node. Figures 5.1.32 to 5.1.39 (Case L) illustrates the impact of arithmetic, harmonic (default option), geometric and upwind averaging of the dispersion coefficient in the transport equation. Since the dispersion coefficient does not vary spatially in this example, you would expect these various averaging schemes to produce identical results as shown in the figure. A better test would be to have the dispersion coefficient varying spatially and then compare the various averaging options.

There are no significant differences between PORFLOW versions. The differences in the Analytical and PORFLOW solutions are minimal.

The differences in Cases D–I are due to the grid scale and time scale implemented in PORFLOW and are to be expected. The other differences are due to conditions as described above.

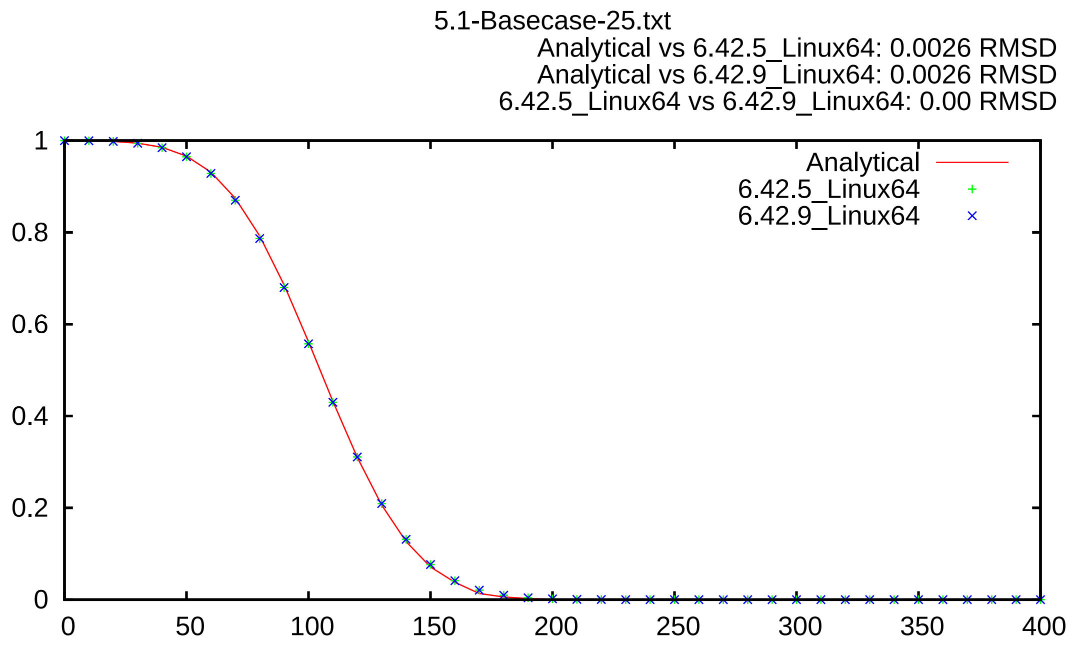

Figure 5.1.2: Concentration Profiles for the 1D Transport of the Base Case at 25m.

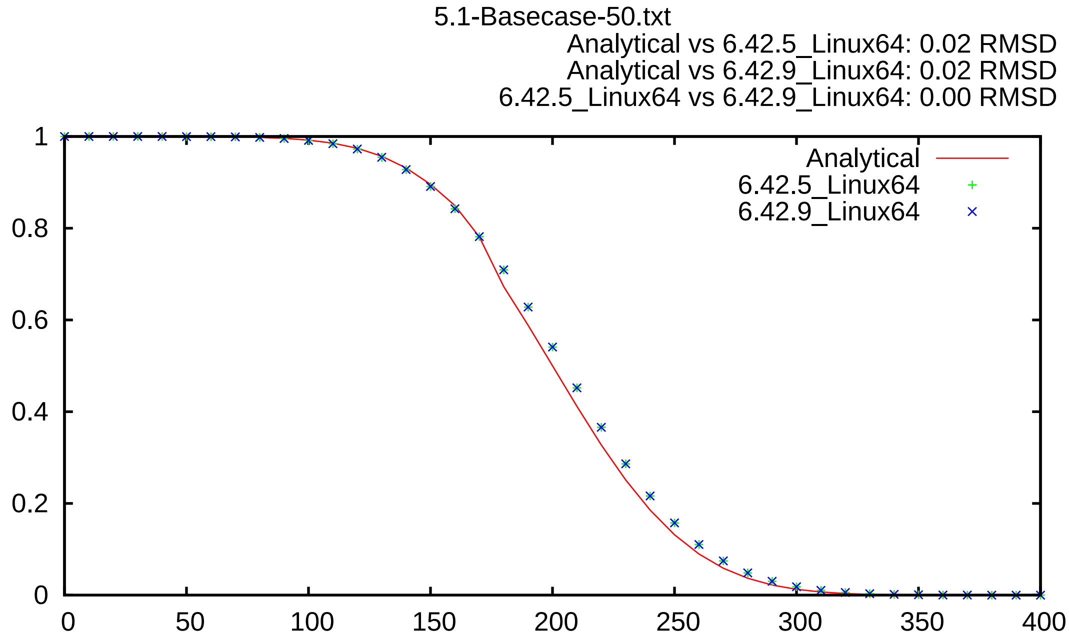

Figure 5.1.3: Concentration Profiles for the 1D Transport of the Base Case at 50m.

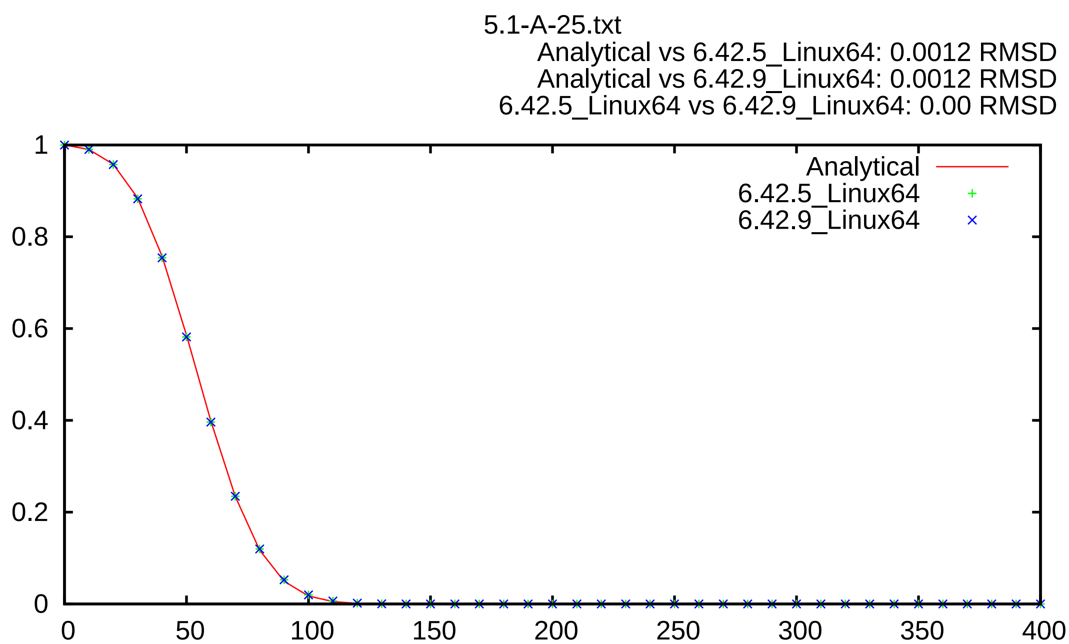

Figure 5.1.4: Concentration Profiles for the 1D Transport Showing Effect of Retardation (Case A) at 25m.

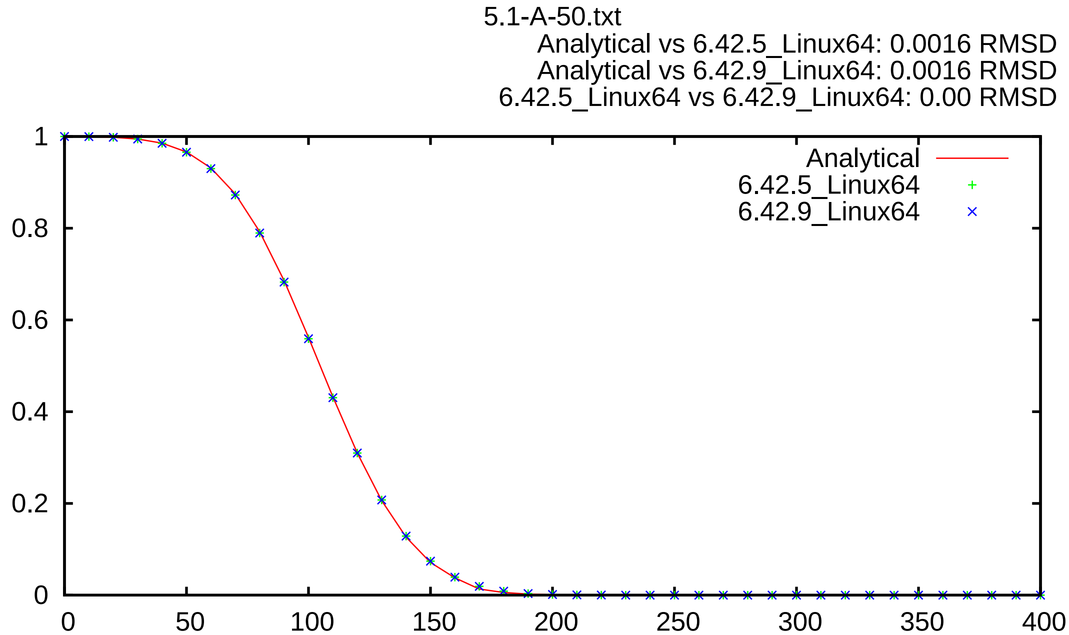

Figure 5.1.5: Concentration Profiles for the 1D Transport Showing Effect of Retardation (Case A) at 50m.

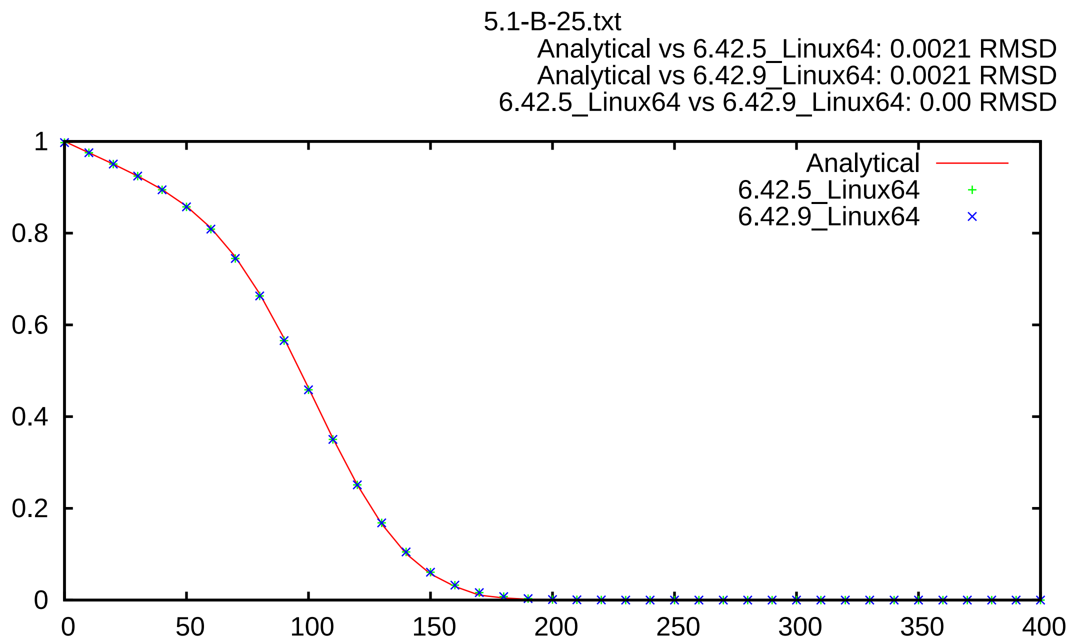

Figure 5.1.6: Concentration Profiles for the 1D Transport Showing Effect of Radioactive Decay (Case B) at 25m.

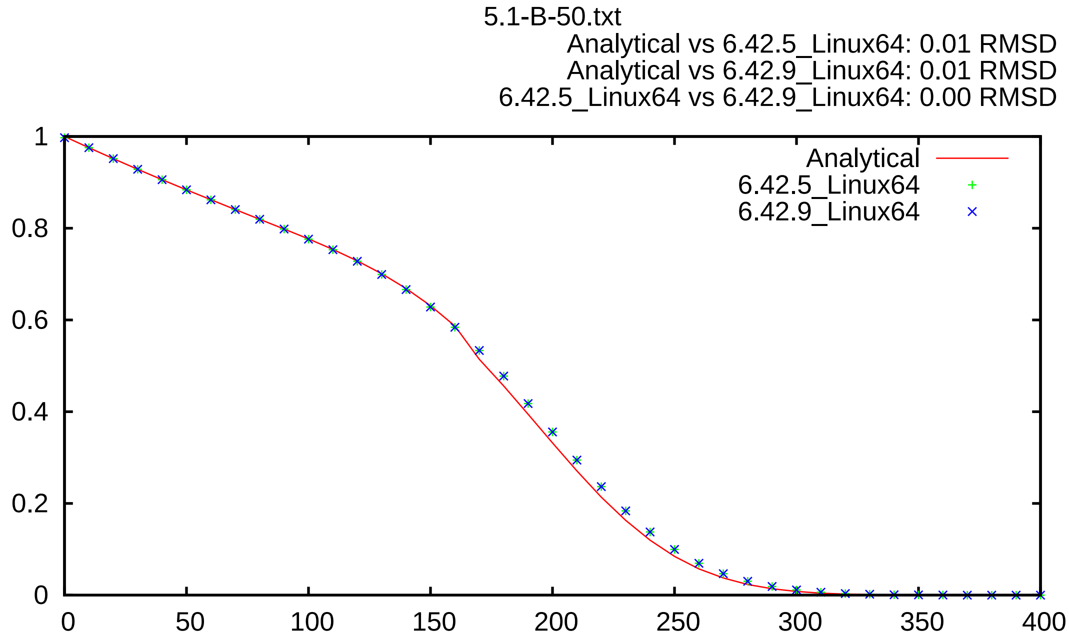

Figure 5.1.7: Concentration Profiles for the 1D Transport Showing Effect of Radioactive Decay (Case B) at 50m.

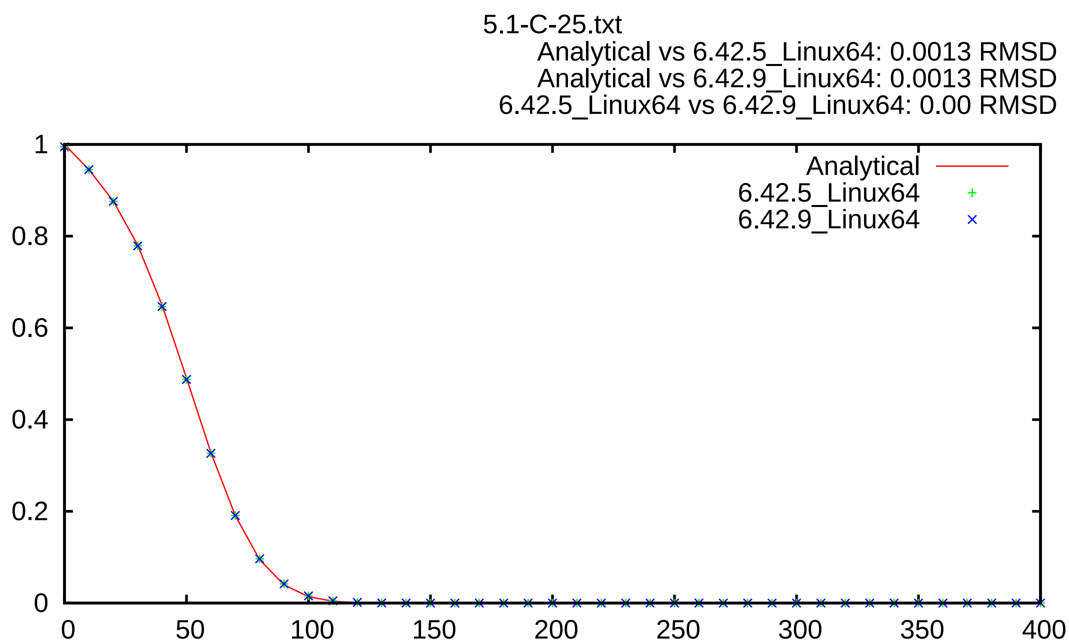

Figure 5.1.8: Concentration Profiles for the 1D Transport Showing Combined Effect of Retardation and Radioactive Decay (Case C) at 25m.

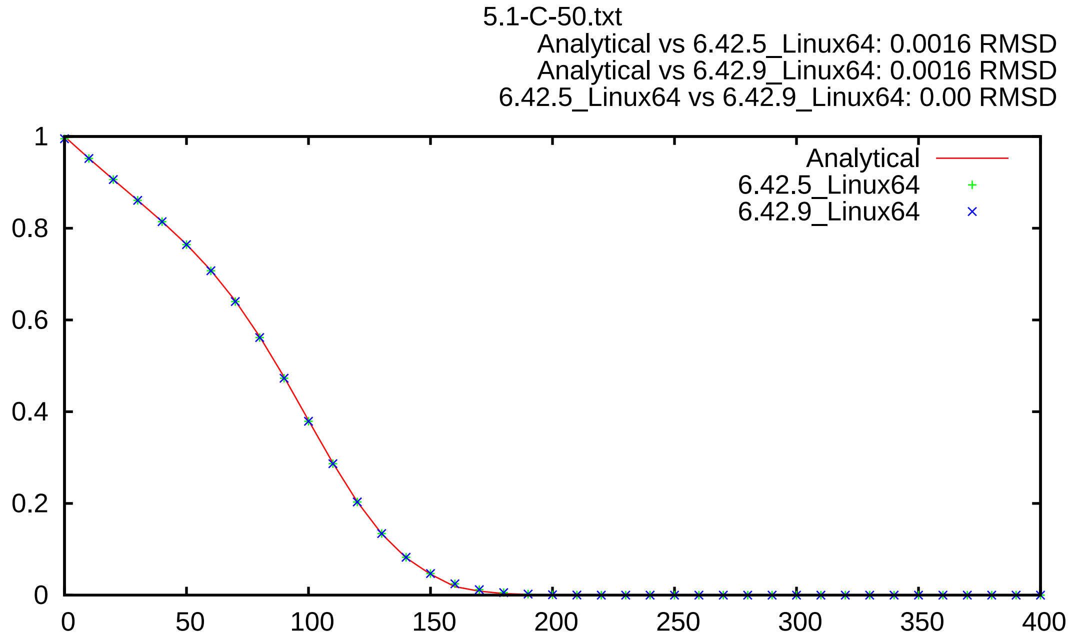

Figure 5.1.9: Concentration Profiles for the 1D Transport Showing Combined Effect of Retardation and Radioactive Decay (Case C) at 50m.

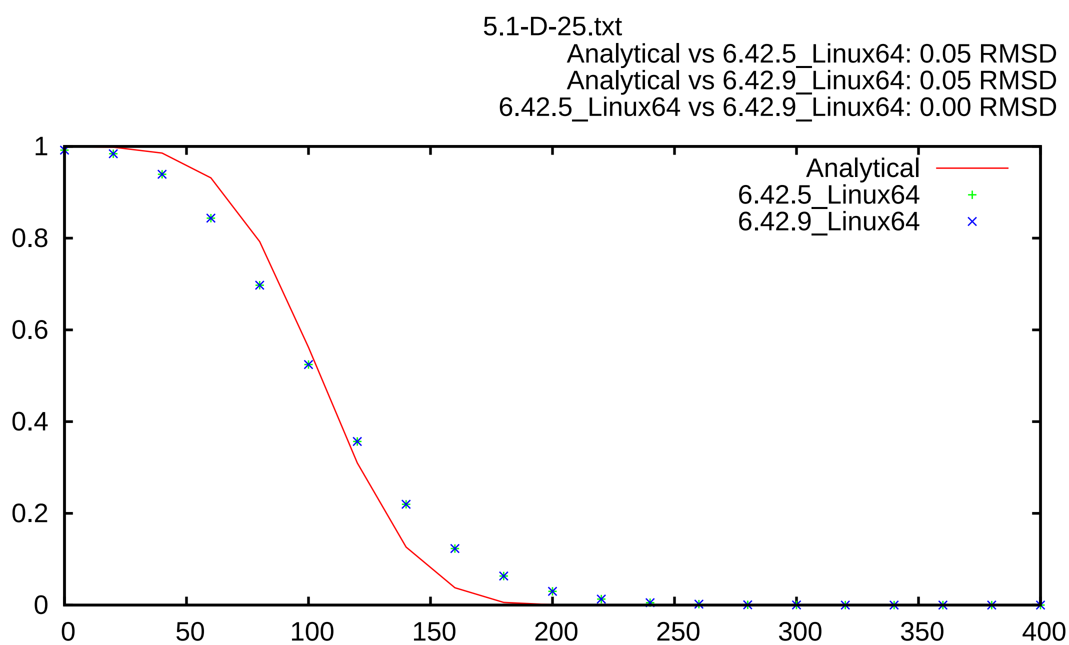

Figure 5.1.10: Concentration Profiles for the 1D Transport Showing Effect of Grid Size, $\Delta x = 20$ m (Case D) at 25m.

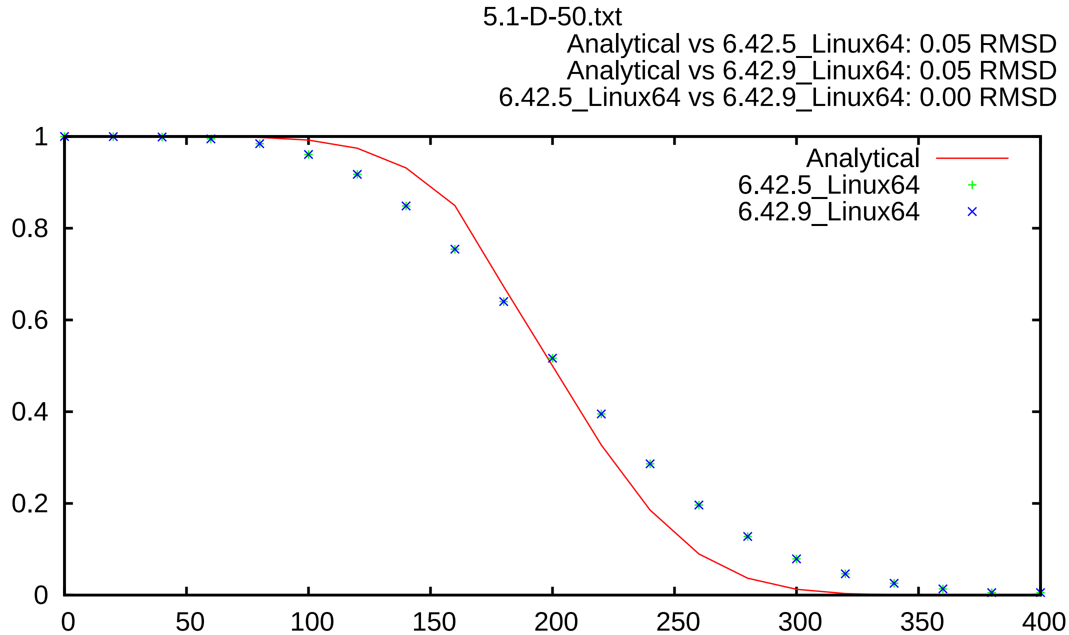

Figure 5.1.11: Concentration Profiles for the 1D Transport Showing Effect of Grid Size, $\Delta x = 20$ m (Case D) at 50m.

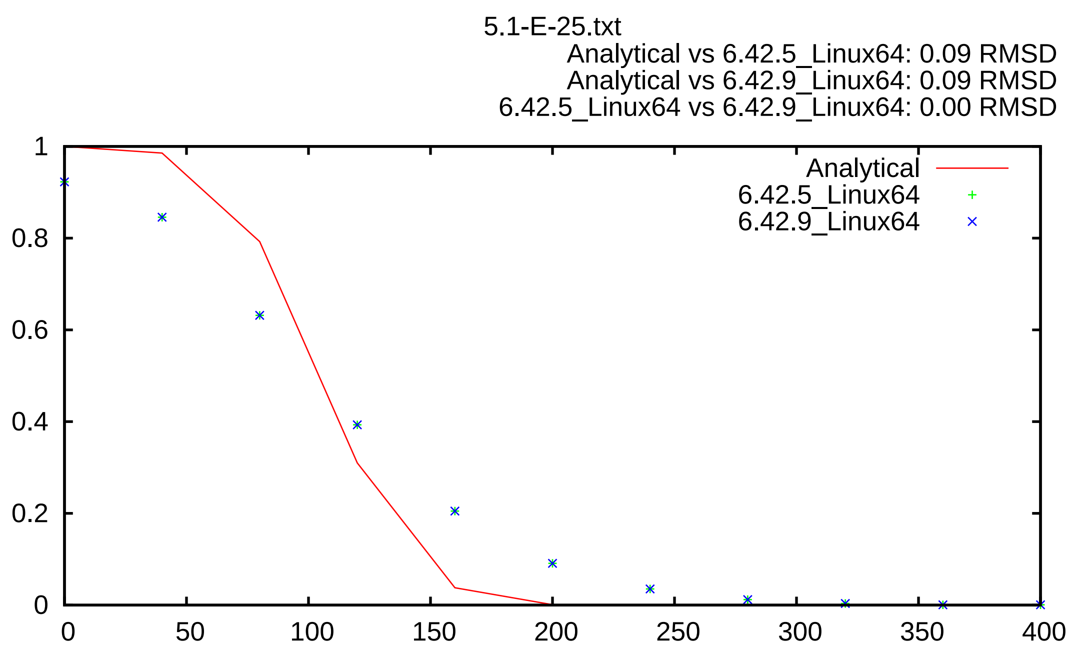

Figure 5.1.12: Concentration Profiles for the 1D Transport Showing Effect of Grid Size, $\Delta x = 40$ m (Case E) at 25m.

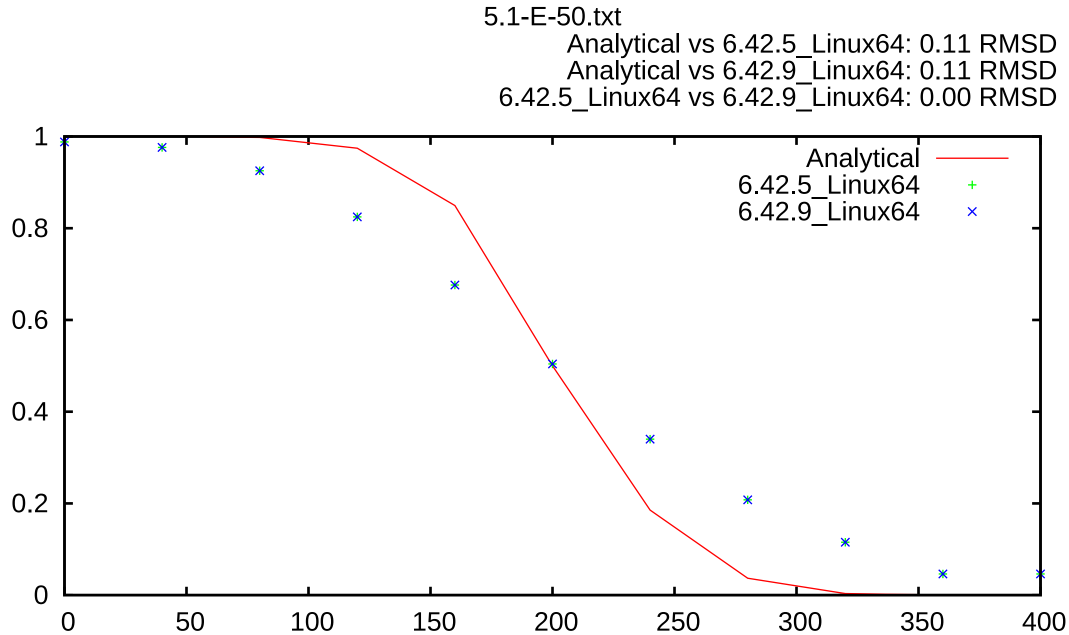

Figure 5.1.13: Concentration Profiles for the 1D Transport Showing Effect of Grid Size, $\Delta x = 40$ m (Case E) at 50m.

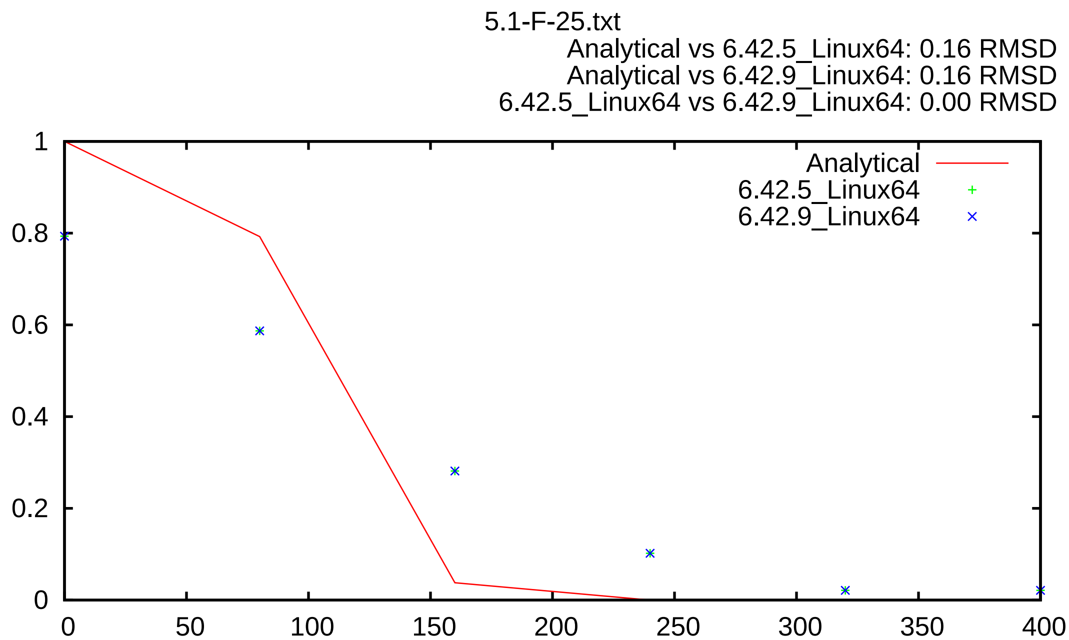

Figure 5.1.14: Concentration Profiles for the 1D Transport Showing Effect of Grid Size, $\Delta x = 80$ m (Case F) at 25m.

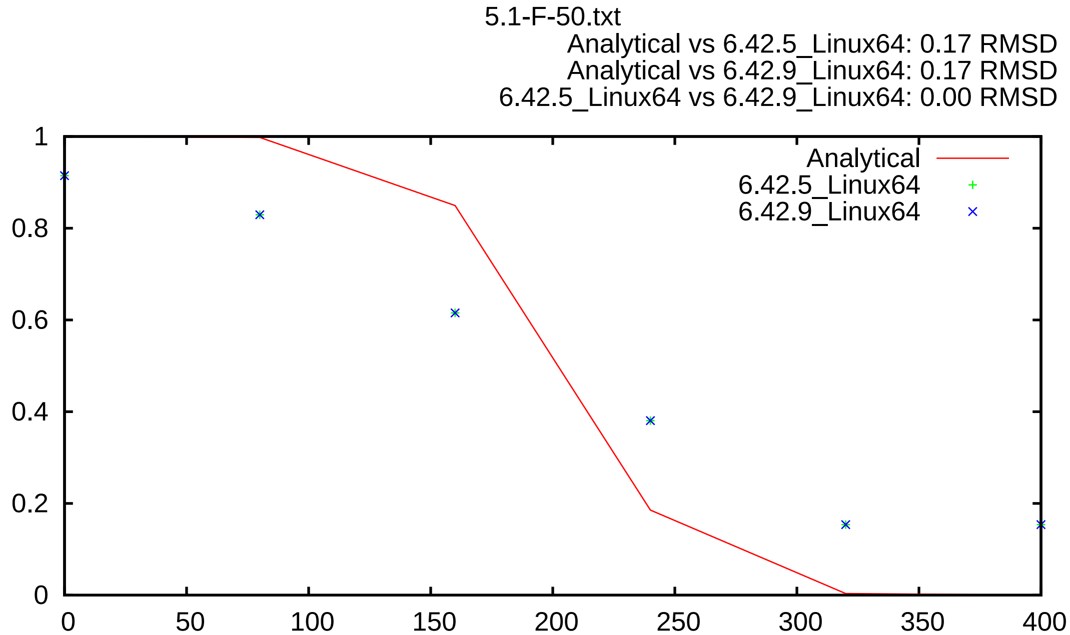

Figure 5.1.15: Concentration Profiles for the 1D Transport Showing Effect of Grid Size, Δx = 80 m (Case F) at 50m.

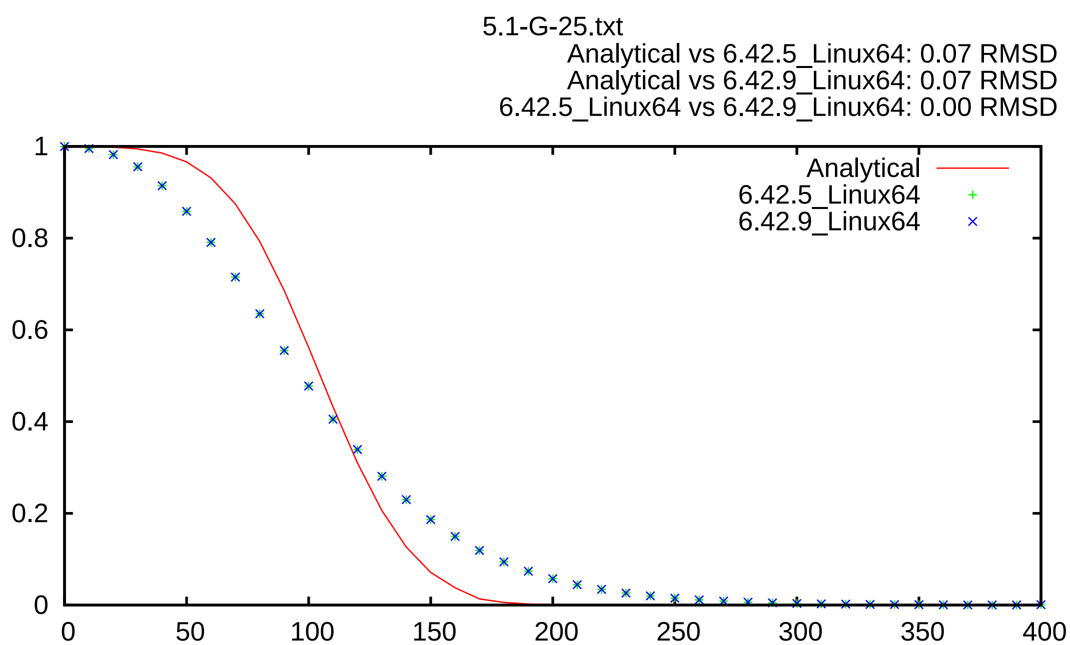

Figure 5.1.16: Concentration Profiles for the 1D Transport Showing Effect of Time Step Size, Δt = 5 d (Case G) at 25m.

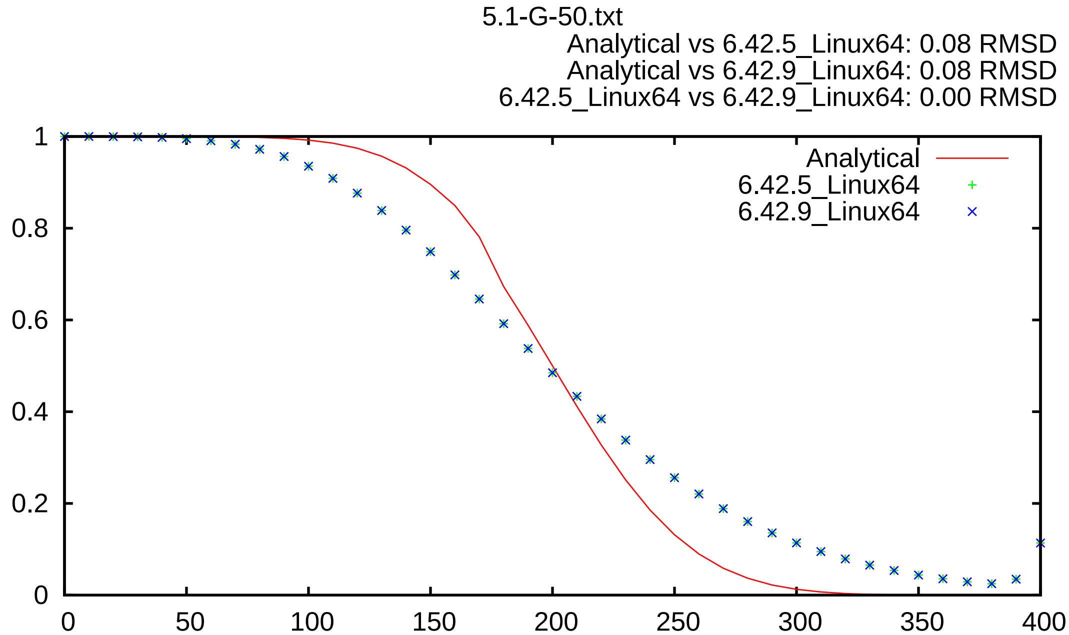

Figure 5.1.17: Concentration Profiles for the 1D Transport Showing Effect of Time Step Size, Δt = 5 d (Case G) at 50m.

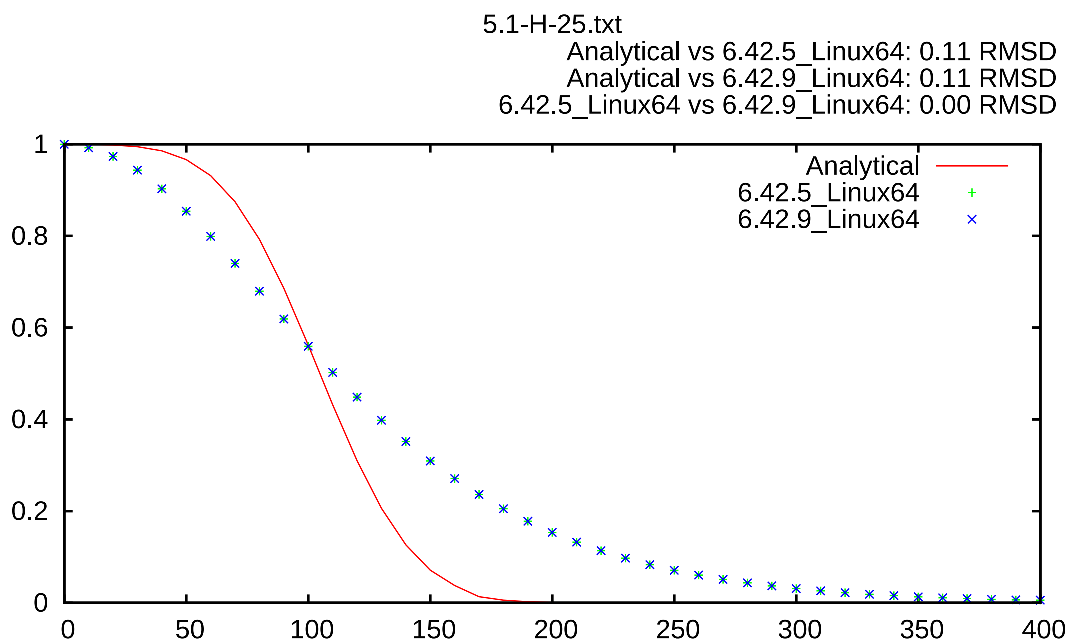

Figure 5.1.18: Concentration Profiles for the 1D Transport Showing Effect of Time Step Size, Δt = 10 d (Case H) at 25m.

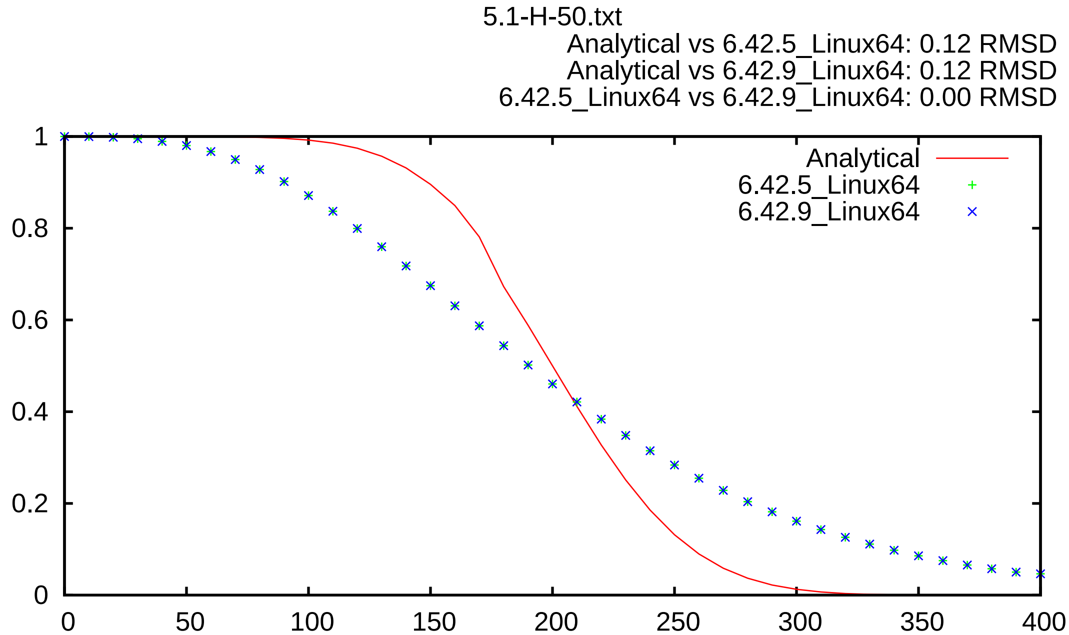

Figure 5.1.19: Concentration Profiles for the 1D Transport Showing Effect of Time Step Size, Δt = 10 d (Case H) at 50m.

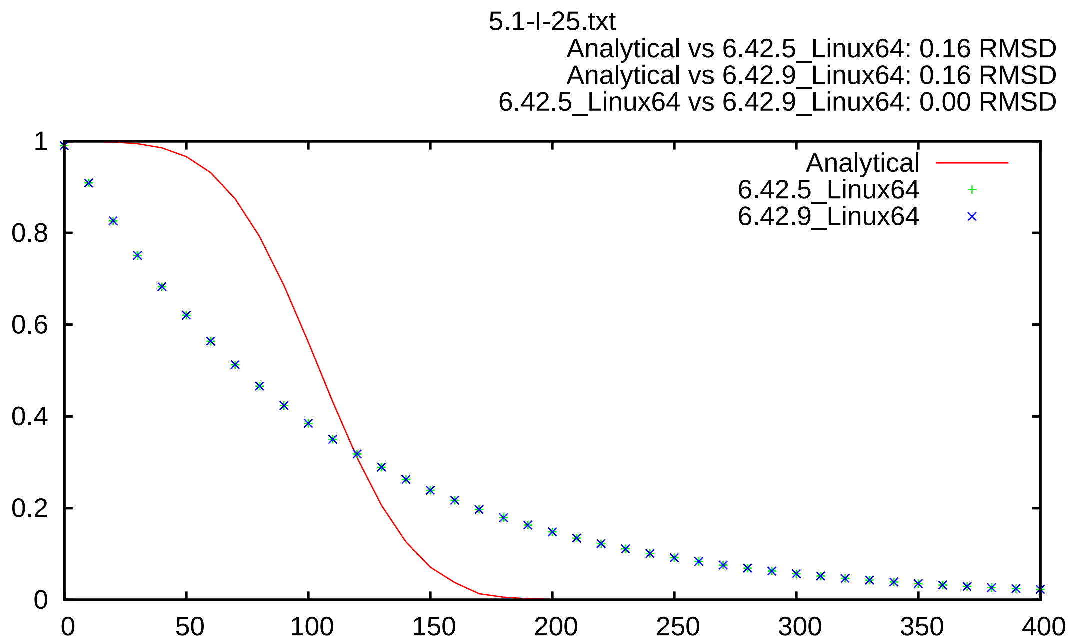

Figure 5.1.20: Concentration Profiles for the 1D Transport Showing Effect of Time Step Size, Δt = 25 d (Case I) at 25m.

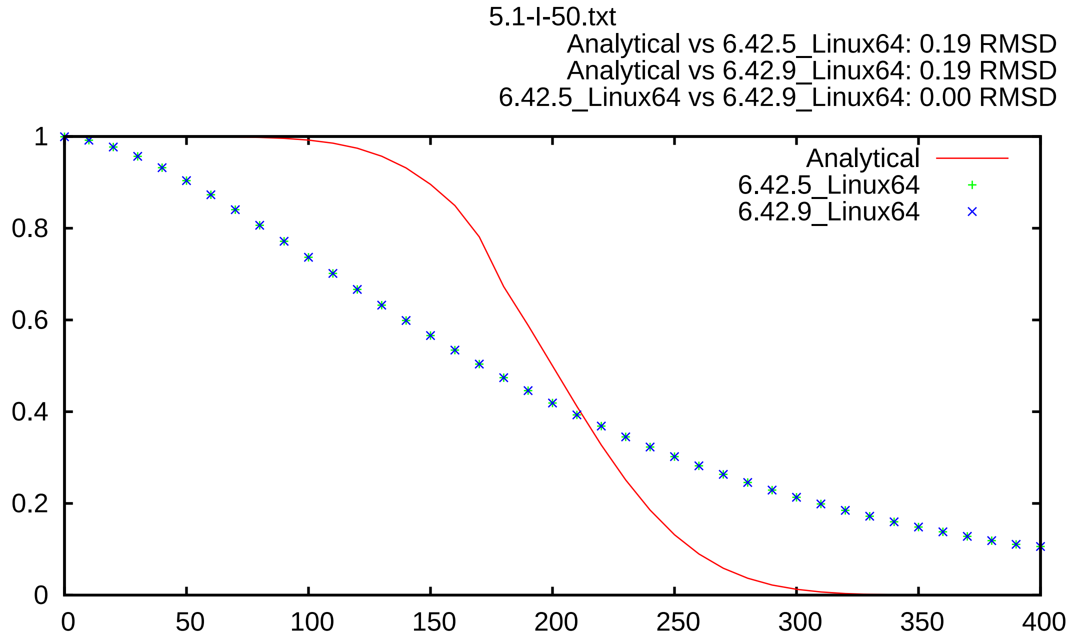

Figure 5.1.21: Concentration Profiles for the 1D Transport Showing Effect of Time Step Size, Δt = 25 d (Case I) at 50m.

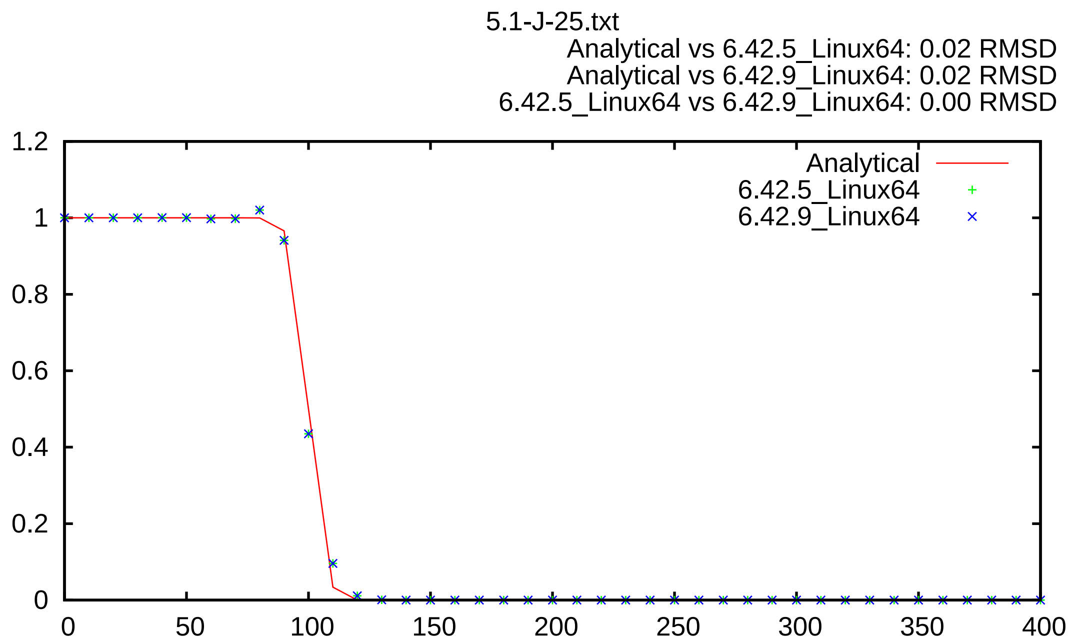

Figure 5.1.22: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of Dispersion (Case J) at 25m.

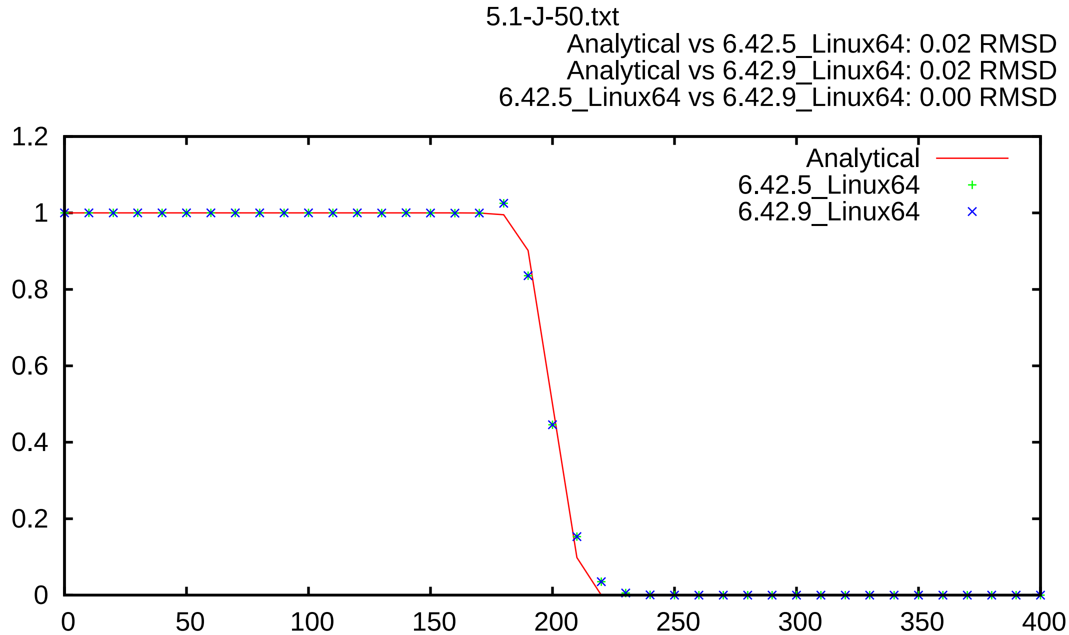

Figure 5.1.23: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of Dispersion (Case J) at 50m.

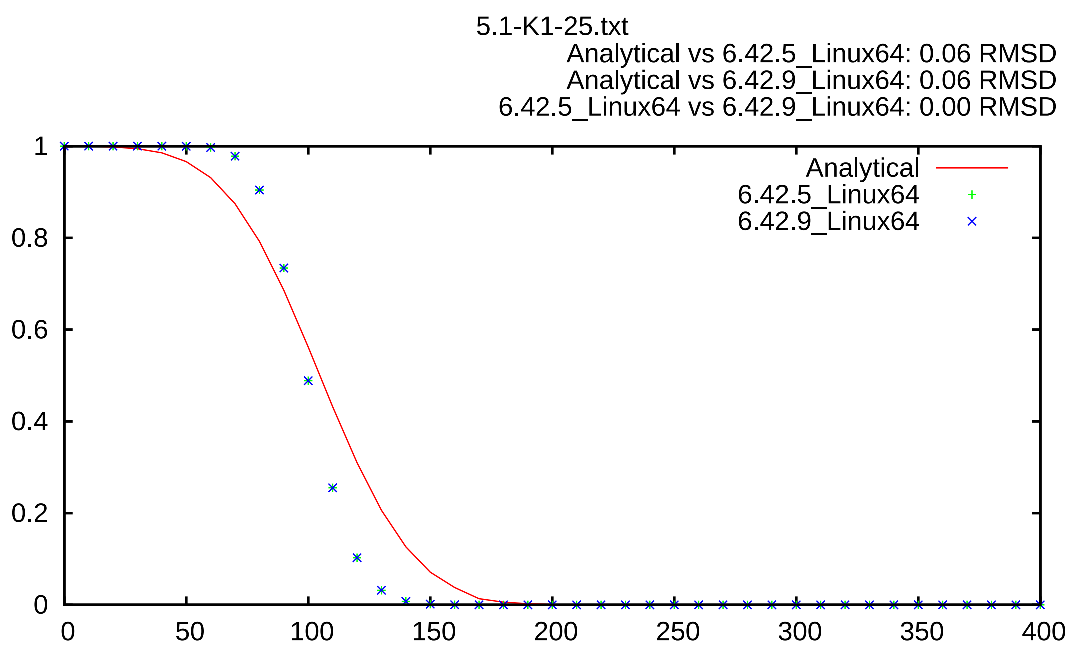

Figure 5.1.24: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of the HYBRID nodal integration scheme (Case K) at 25m.

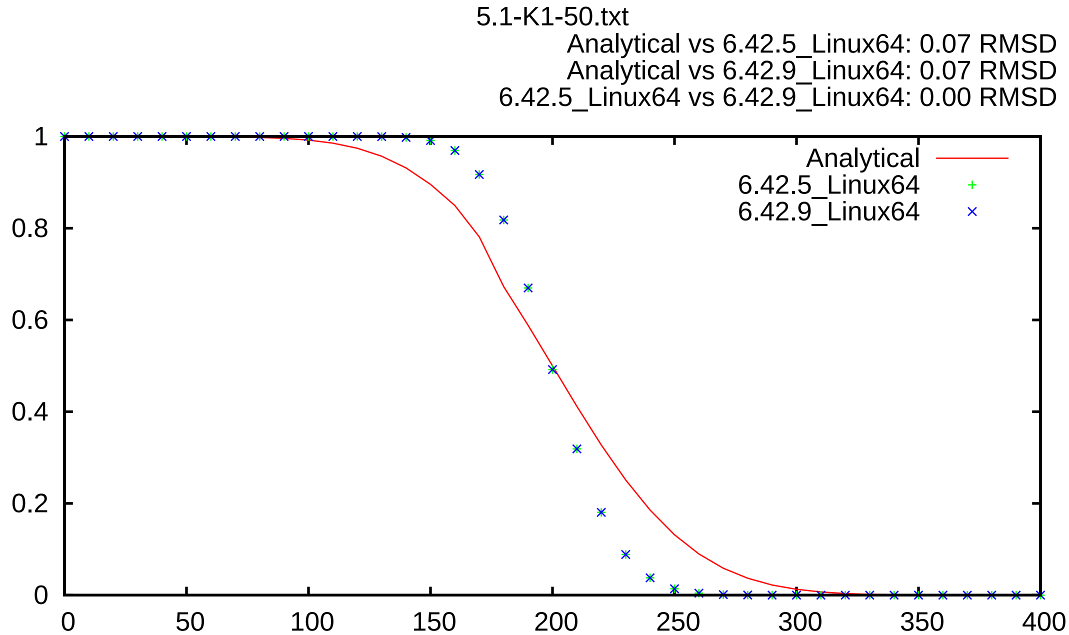

Figure 5.1.25: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of the HYBRID nodal integration scheme (Case K) at 50m.

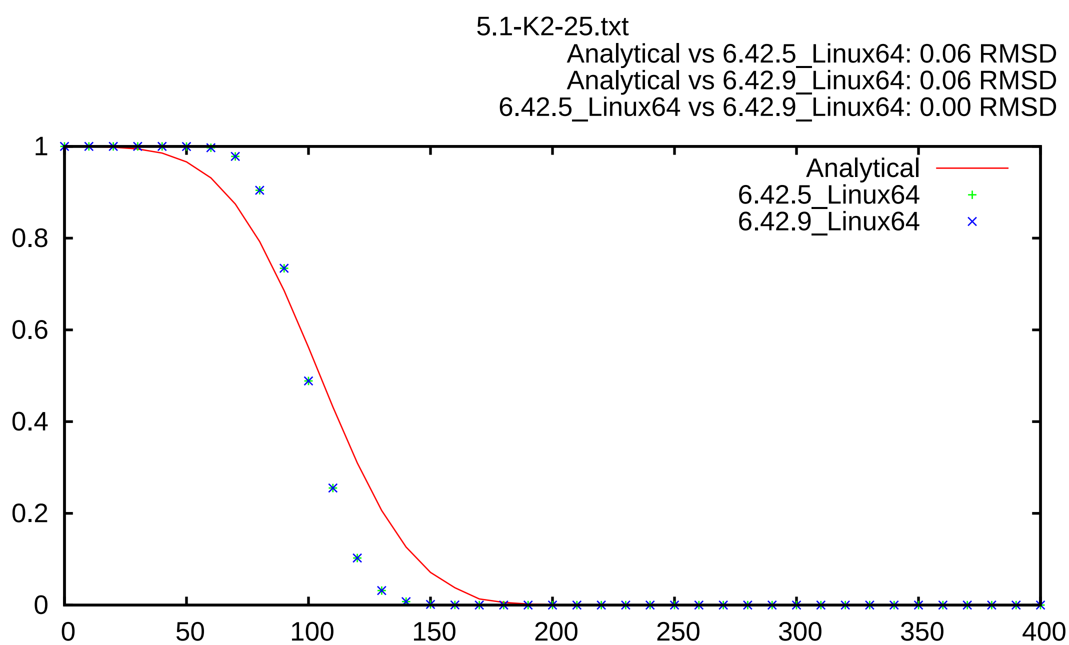

Figure 5.1.26: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of the CONDIF nodal integration scheme (Case K) at 25m.

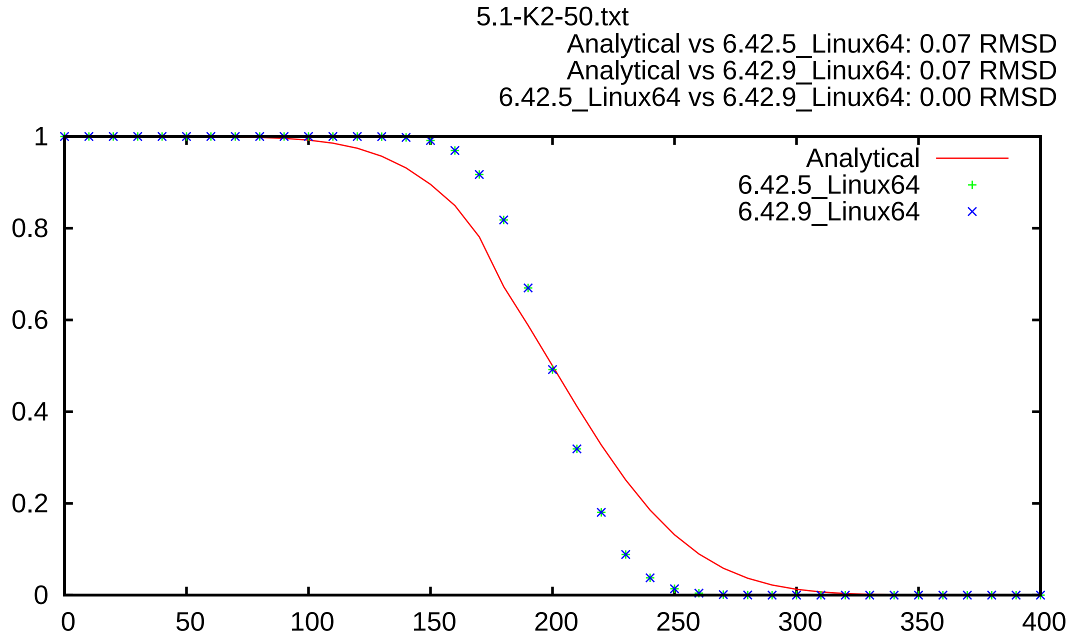

Figure 5.1.27: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of the CONDIF nodal integration scheme (Case K) at 50m.

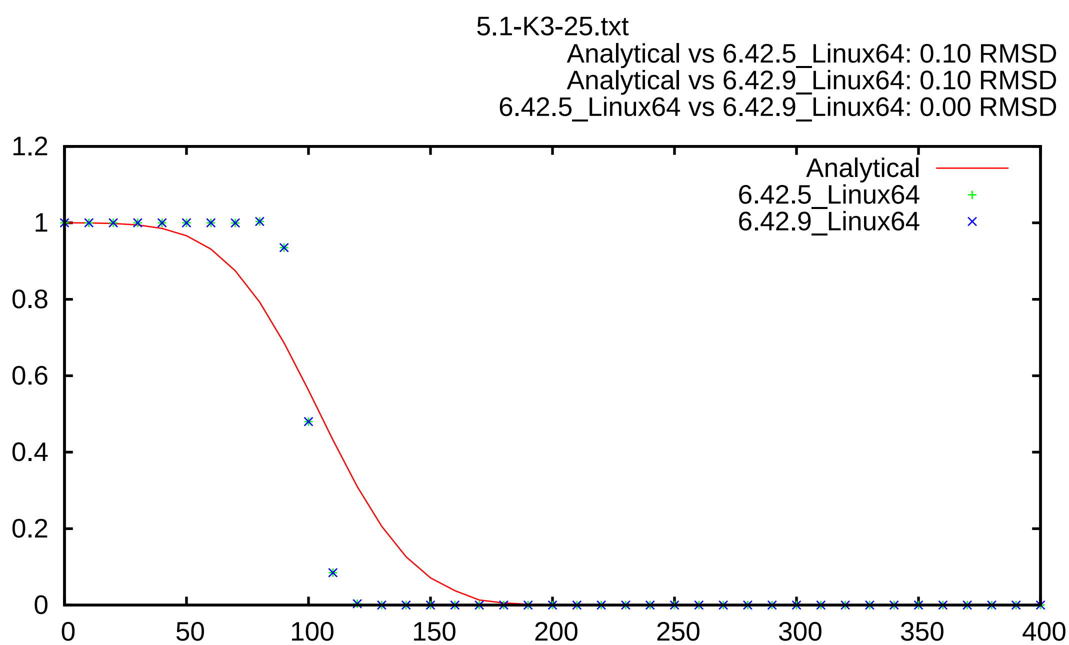

Figure 5.1.28: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of the QUICK nodal integration scheme (Case K) at 25m.

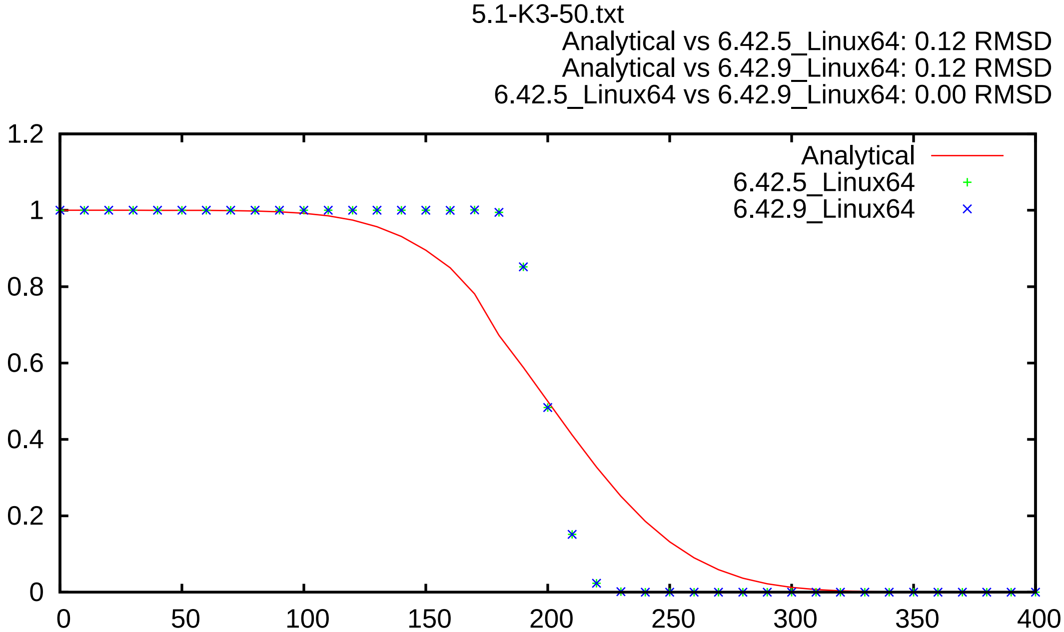

Figure 5.1.29: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of the QUICK nodal integration scheme (Case K) at 50m.

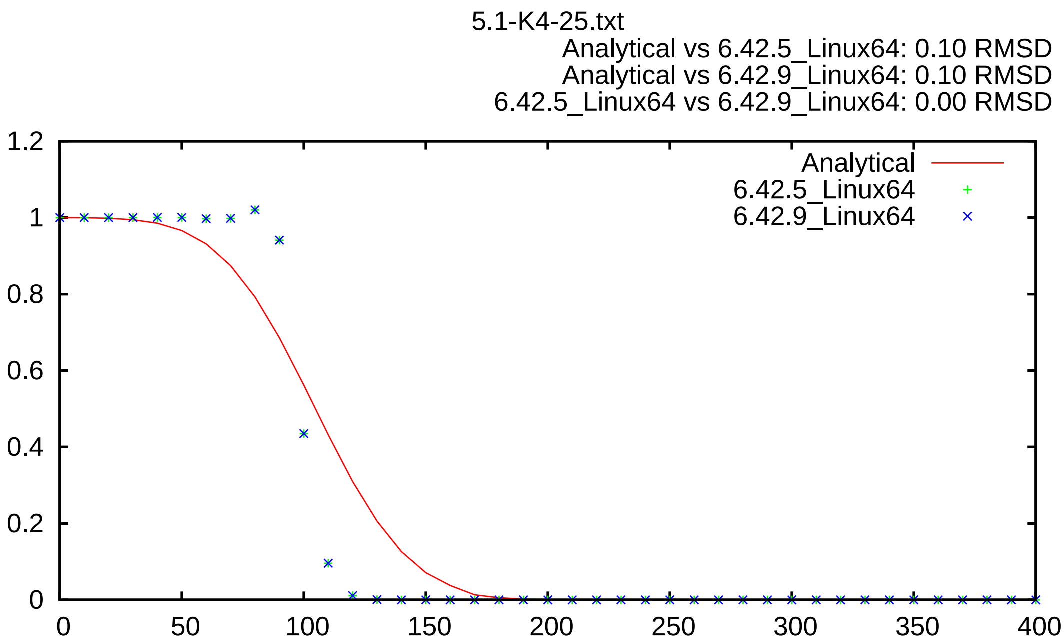

Figure 5.1.30: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of the Central Diff nodal integration scheme (Case K) at 25m.

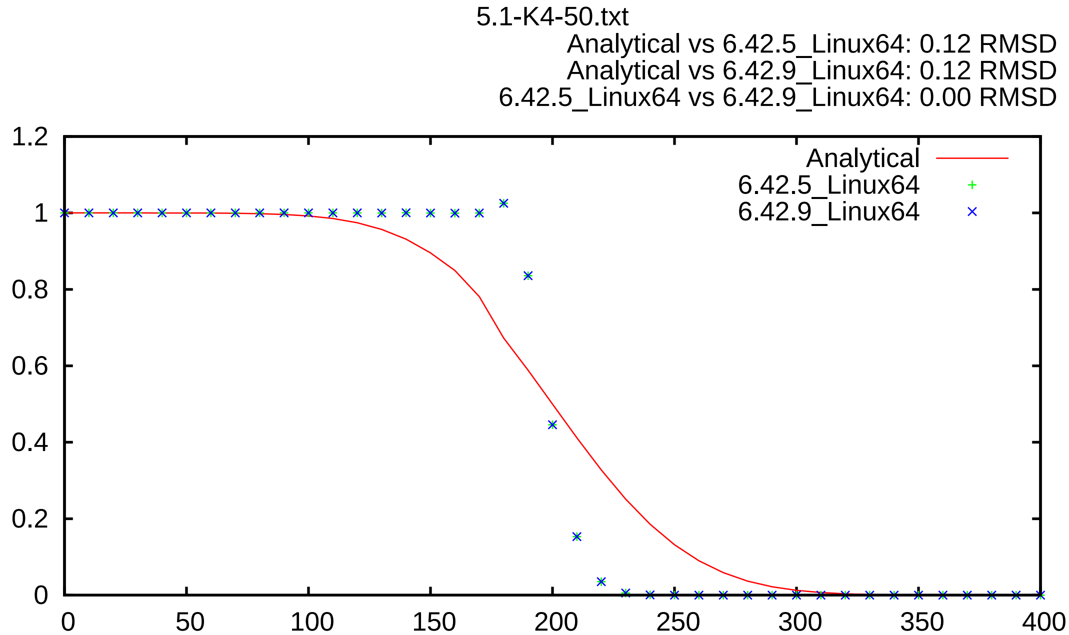

Figure 5.1.31: Concentration Profiles for the 1D Transport at High Peclet Number Showing Effect of the Central Diff nodal integration scheme (Case K) at 50m.

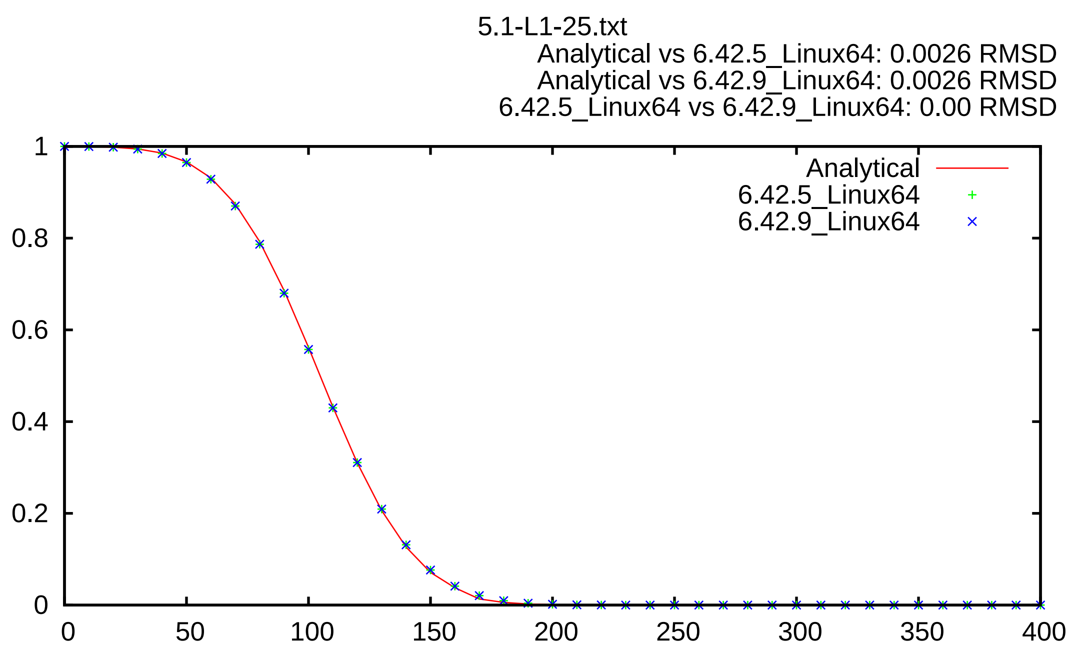

Figure 5.1.32: Concentration Profiles for the 1D Transport Showing Effect of the Harmonic property averaging schemes (Case L) at 25m.

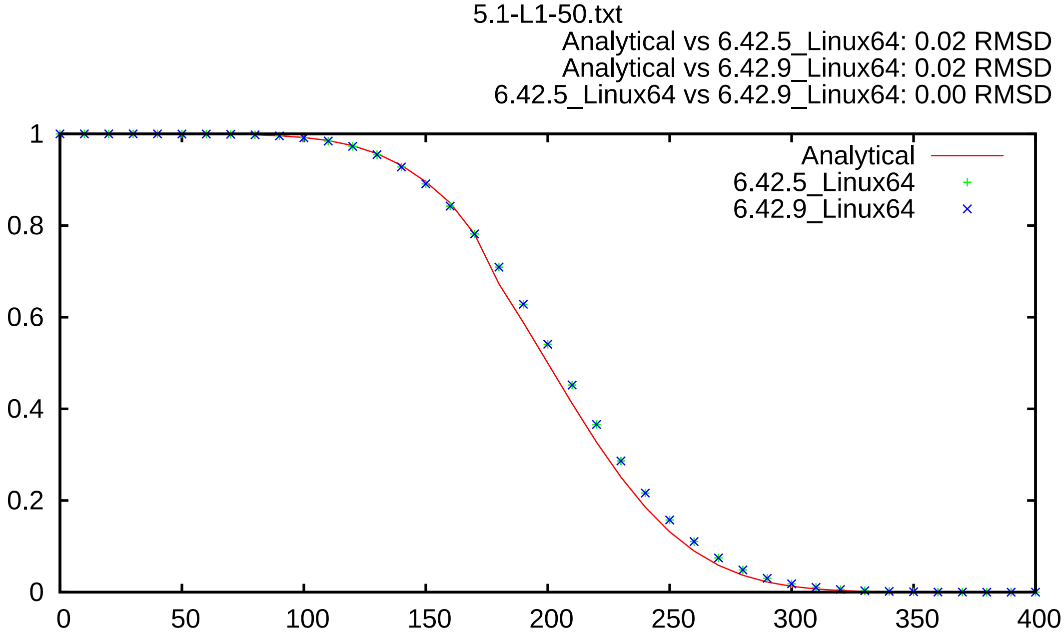

Figure 5.1.33: Concentration Profiles for the 1D Transport Showing Effect of the Harmonic property averaging schemes (Case L) at 50m.

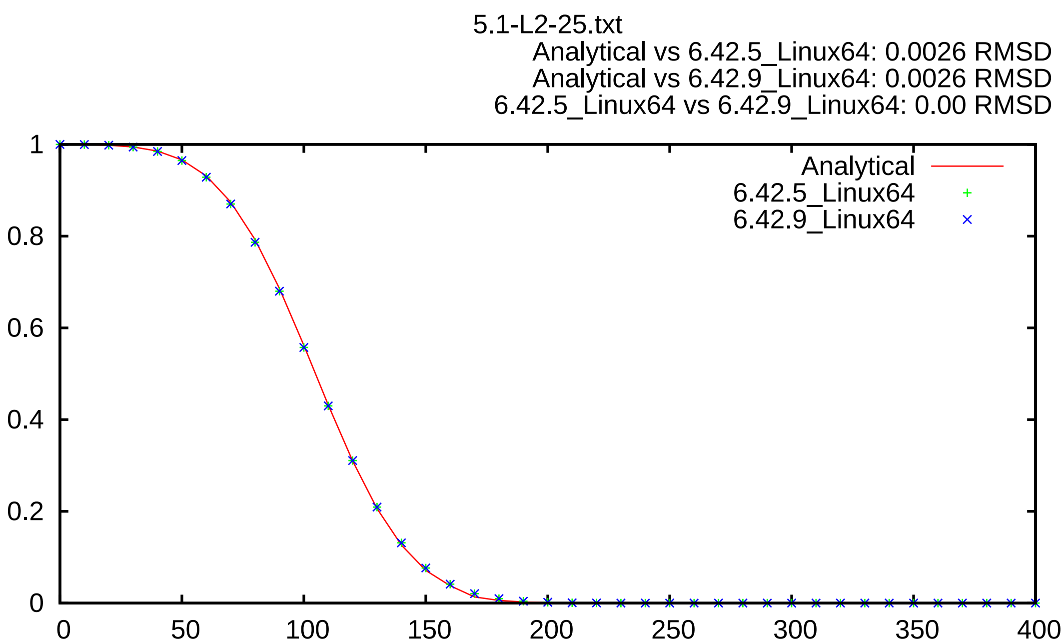

Figure 5.1.34: Concentration Profiles for the 1D Transport Showing Effect of the Arithmetic property averaging schemes (Case L) at 25m.

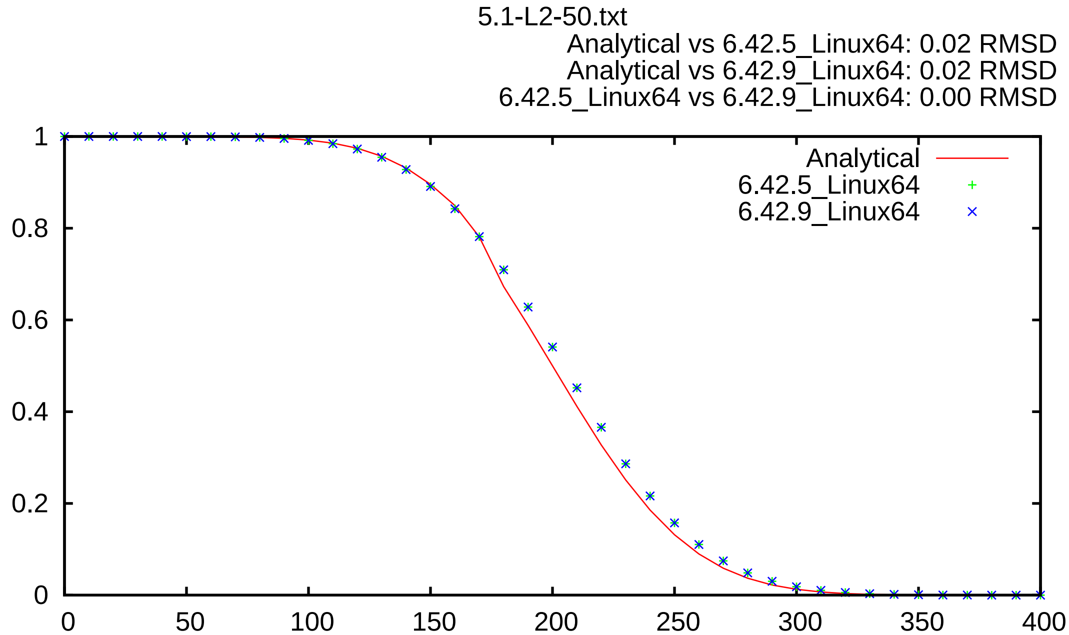

Figure 5.1.35: Concentration Profiles for the 1D Transport Showing Effect of the Arithmetic property averaging schemes (Case L) at 50m.

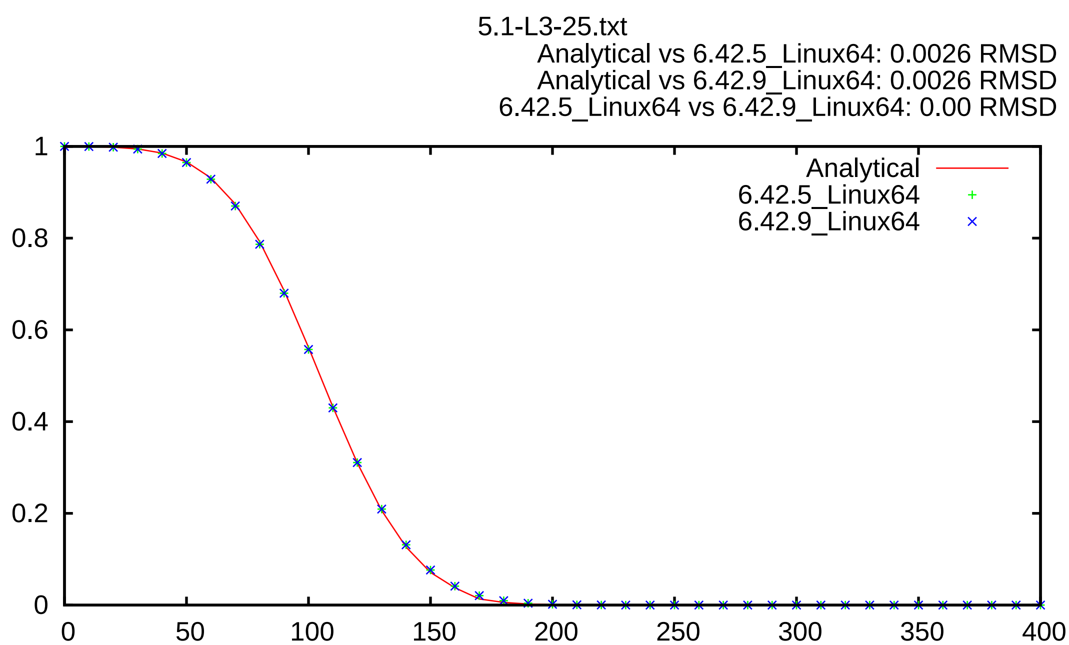

Figure 5.1.36: Concentration Profiles for the 1D Transport Showing Effect of the Geometric property averaging schemes (Case L) at 25m.

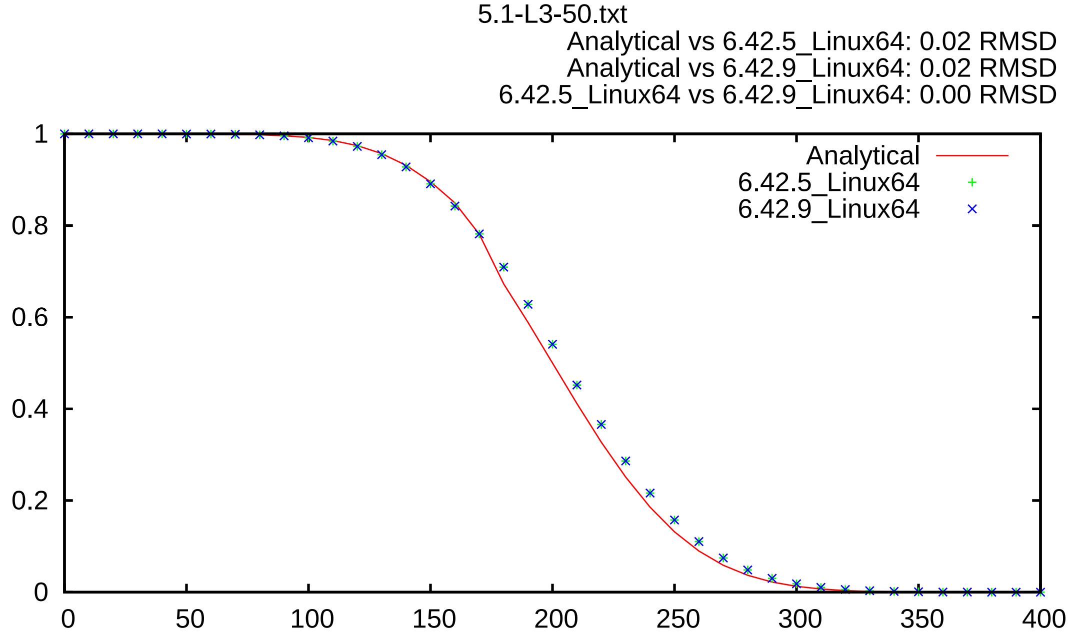

Figure 5.1.37: Concentration Profiles for the 1D Transport Showing Effect of the Geometric property averaging schemes (Case L) at 50m.

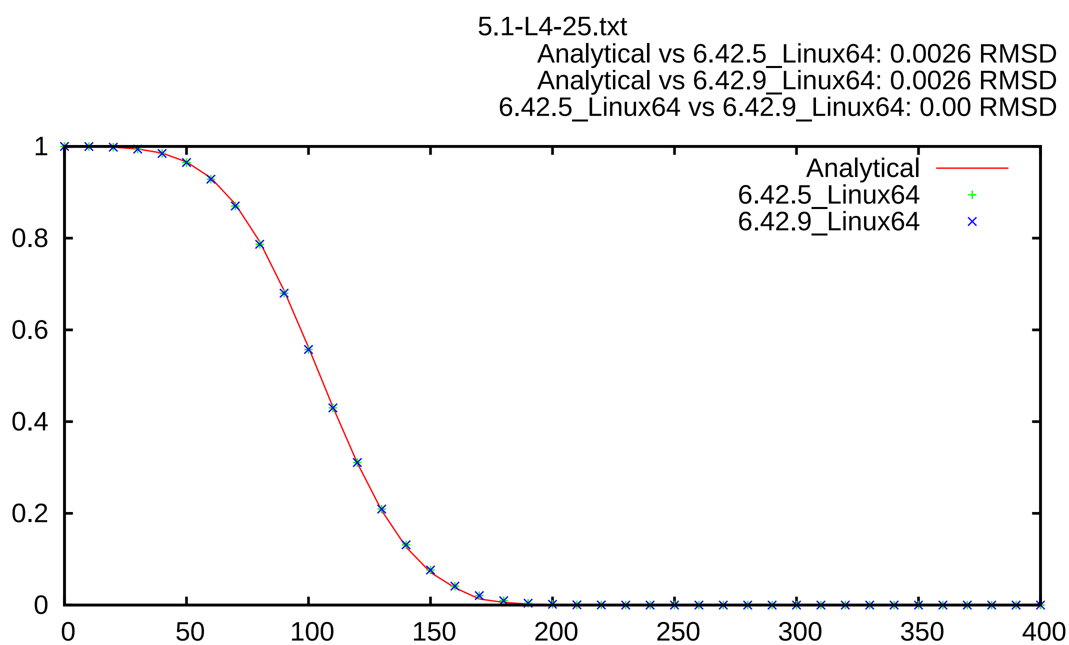

Figure 5.1.38: Concentration Profiles for the 1D Transport Showing Effect of the Upwind property averaging schemes (Case L) at 25m.

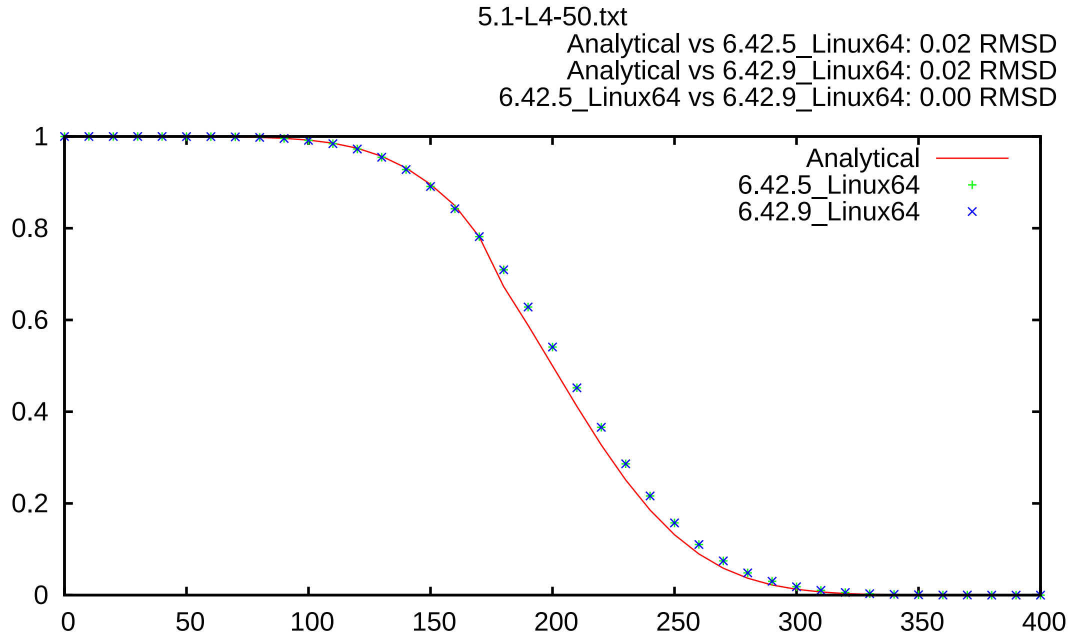

Figure 5.1.39: Concentration Profiles for the 1D Transport Showing Effect of the Upwind property averaging schemes (Case L) at 50m.

5.2 Two-Dimensional Saturated Solute Transport in a Uniform Flow Field

This problem deals with two-dimensional advection-dispersion of a non-conservative solute species from a point source through an infinite porous medium. It is used to demonstrate the impact that grid orientation with transverse dispersion has on the solution from PORFLOW. A physical schematic of this problem is shown in Figure 5.2.1(a). In practice, the idealized conditions are analogous to continual leakage or injection of a contaminant into a shallow confined aquifer from a small leaking landfill or an improperly sealed fully penetrating injection well (gradients in the vertical direction are assumed to be negligible). It is assumed that the total rate of fluid leakage or injection into the aquifer is negligible and does not disturb the ambient groundwater flow regime. Analytically the problem is treated as a point source in the 2-D areal plane.

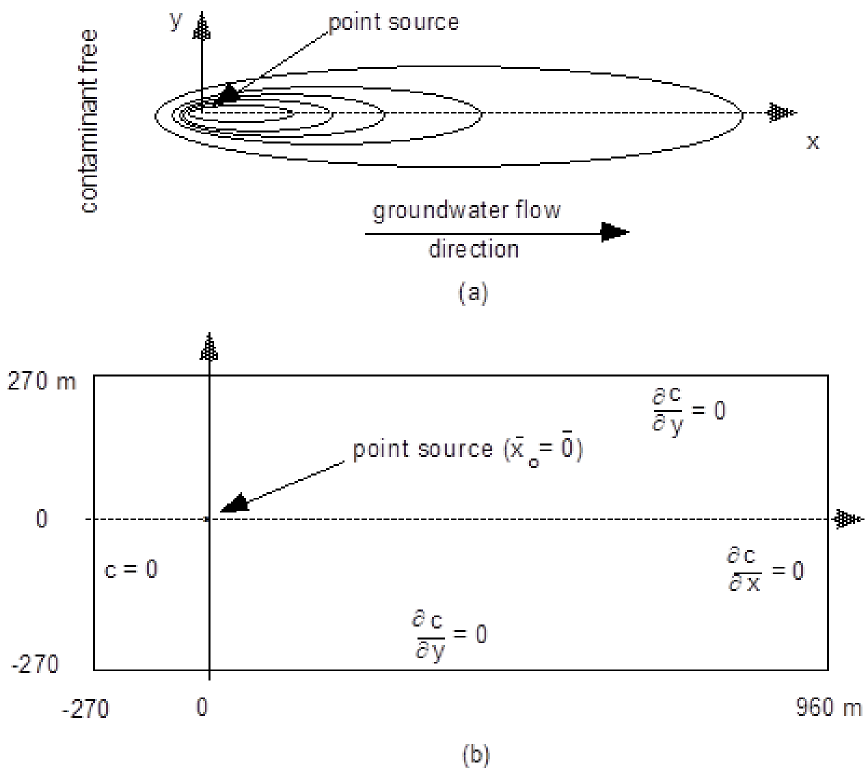

Figure 5.2.1: Schematic Diagram for 2D Solute Transport in a Confined Aquifer

As illustrated in Figure 5.2.1(b), a non-conservative contaminant is continuously released from a point source downstream of an inflow boundary (containing zero contaminant) into a shallow confined aquifer unit whose groundwater flow is assumed to be uniform. Both hydrodynamic dispersion and molecular diffusion are allowed, as well as, the possibility of radioactive decay and/or adsorption of the transported species. It is assumed that the contaminant mass flow rate at the point source remains constant, the aquifer's flow rate is uniform and constant, and the homogeneous aquifer's properties (such as porosity, soil type, water saturation) are uniform and constant.

Equation (5.1.4) represents the non-conservative form of the multi-dimensional advection-dispersion equation for solute transport through a variably saturated porous media. Taking the 2-D form of Equation (5.1.4) and assuming one point exists at the areal location x = y = 0 and the water saturation level and the material coefficients are constant, results in

$$\frac{\partial c}{\partial t} = D'_{xx}\frac{\partial^2 c}{\partial x^2} + D'_{yy}\frac{\partial^2 c}{\partial y^2} + D'_{xy}\frac{\partial^2 c}{\partial x \partial y} + D'_{xy}\frac{\partial^2 c}{\partial y \partial x} - u'_x\frac{\partial c}{\partial x} - u'_y\frac{\partial c}{\partial y} - \lambda c - \frac{q(c-c^*)}{\theta_e R} \qquad (5.2.1)$$

where

$$D'_{xx} = \frac{\alpha_L \dfrac{U_x^2}{|U|} + \alpha_T \dfrac{U_y^2}{|U|} + \theta_e \tau D_m}{\theta_e R} \tag{5.2.2a}$$

$$D'_{yy} = \frac{\alpha_L \dfrac{U_y^2}{|U|} + \alpha_T \dfrac{U_x^2}{|U|} + \theta_e \tau D_m}{\theta_e R} \tag{5.2.2b}$$

$$D'_{xy} = D'_{yx} = \frac{(\alpha_L - \alpha_T)\dfrac{U_x U_y}{|U|}}{\theta_e R} \tag{5.2.2c}$$

and α_T is the transverse dispersivity.

If the flow field is aligned with the x-axis Equation (5.2.1) reduces to

$$\frac{\partial c}{\partial t} = D'_{xx}\frac{\partial^2 c}{\partial x^2} + D'_{yy}\frac{\partial^2 c}{\partial y^2} - u'_x \frac{\partial c}{\partial x} - \lambda c - \frac{q(c - c^*)}{\theta_e R} \tag{5.2.3}$$

For our infinite confined aquifer the initial conditions are

$$c(x, y, 0) = 0 \tag{5.2.4}$$

and the boundary conditions are:

$$c(\pm\infty, y, t) = 0 \tag{5.2.5a}$$

$$c(\pm\infty, x, t) = 0 \tag{5.2.5b}$$

These boundary conditions are equivalent to assuming that the dispersive flux of the solute is 0 at $\pm\infty$ or

$$\lim_{x\to\pm\infty}\left(\frac{\partial c}{\partial x}\right) = 0 \tag{5.2.6a}$$

$$\lim_{y\to\pm\infty}\left(\frac{\partial c}{\partial y}\right) = 0 \tag{5.2.6b}$$

For finite times there exists finite values of x and y where Equations (5.2.6a) and (5.2.6b) remain valid. As mentioned above, it is assumed that the total rate of fluid flow, q, into the aquifer due to the source is negligible and does not disturb the ambient groundwater flow regime. In order to have a finite mass flow rate of contaminant requires

$$\lim_{q\to 0}(qc^*) < \infty \Rightarrow \lim_{q\to 0}(c^*) = \pm\infty \tag{5.2.7}$$

Equation (5.2.3), a linear partial differential equation subject to the initial and boundary conditions given by Equations (5.2.5a), (5.2.5b) and (5.2.4), can be solved by applying Laplace and Fourier transforms to derive the appropriate Green's functions. For details, see Yeh (1981). The general solution for a continuous point source takes the form

$$c(x, y, t) = \frac{qc^*}{\theta_e R} \int_0^t G(x|\xi; y|\eta; t|\tau) d\tau \tag{5.2.8}$$

where $G(x|\xi; y|\eta; t|\tau)$ is the Green's function over the domain space. For our analytical problem, we shall *limit our flow field to flow parallel to the x-axis only.* This results in a dispersion tensor that is diagonal and is a separable Green's function. It can be shown that for a simple geometry such as a separable coordinate system, Green's function can be expressed as

$$G(x|\xi; y|\eta; t|\tau) = G_1(x|\xi; t|\tau) G_2(y|\eta; t|\tau) \tag{5.2.9}$$

where, for a point source in the x-direction (infinite domain, parallel to flow)

$$G_1(x|\xi; t|\tau) = \frac{S(t-\tau)}{\sqrt{4\pi D'_{xx}(t-\tau)}} \exp\left[-\frac{\{(x-\xi) - u'_x(t-\tau)\}^2}{4D'_{xx}(t-\tau)} - \lambda(t-\tau) \right] \tag{5.2.10}$$

and for a point source in the y-direction (infinite domain, transverse to flow)

$$G_2(y|\eta; t|\tau) = \frac{S(t-\tau)}{\sqrt{4\pi D'_{yy}(t-\tau)}} \exp\left[-\frac{(y-\eta)^2}{4D'_{yy}(t-\tau)} \right] \tag{5.2.11}$$

where $S(t-\tau)$ is the step function.

The evaluation of the analytical expressions, Equations (5.2.8) to (5.2.11), for a specific problem is performed numerically using the program in Listing 102 in Appendix C.

The PORFLOW 2-D Cartesian models for this consist of two grids. One grid is a rectangular domain in which the aquifer groundwater flow is in the x-direction only. The other grid is a square domain in which the aquifer groundwater flow is diagonal to the mesh orientation. The point source in both grids is located at x = y = 0. Zero diffusive flux boundary conditions are applied at the +X, -Y and +Y faces of the mesh.

Even though we are considering an aquifer unit with infinite extent in the areal directions, our numerical model has finite size. At our inflow boundary (-X) we shall assume that the incoming fluid remains contaminant free (i.e., the contaminant concentration immediately upstream of the source does not extend back up to the inflow boundary). For the parameters chosen (i.e., longitudinal dispersivity, Darcy velocity, and source location), the above assumption remains valid over the time period of interest.

In addition, PORFLOW requires input about the total mass flowrate per unit thickness entering the aquifer at the point source. An arbitrarily small but finite value for qc^* was chosen to maintain computed solute concentration values near the source to acceptable values. Steep concentration gradients near a source can result in oscillatory behavior unless the local grid is sufficiently refined. For demonstration purposes, we have chosen uniform coarse grids and are primarily interested in results away from the source location. The simulations are done by specifying a velocity field and running the solute transport option only. In this way, the flow rate entering the aquifer due to the point source does not alter the aquifer flow field.

Values of the physical parameters used in the verification simulations are presented in Tables 5.2.1 to 5.2.4. For the conservative solute transport cases, the parameters were selected based on data from a field investigation on hexavalent chromium contamination reported by (Perlmutter and Lieber, 1970; Wilson and Miller, 1978). For the non-conservative solute transport cases, the values of retardation and decay constants were chosen arbitrarily to test the performance of PORFLOW transport modules.

Table 5.2.1: Values of the Physical Parameters used in the 2-D Transport Simulations

Physical parameters	Base Case
Darcy velocity, U_x	0.161 m/d
Porosity, ϕ	0.35
Longitudinal dispersivity, α_L	21.3 m
Transverse dispersivity, α_T	4.3 m
Apparent molecular dispersion coefficient, $\theta_e \tau D_m$	0.0 m^2/d
Water saturation, S_w	1.0
Radioactive decay constant, λ	0.0 d^{-1}
Soil density, ρ_s	1.23077 kg/m^3
Solute distribution coefficient, k_d	0.0 m^3/kg
Boundary solute concentration, c_o	0.0 kg/m^3
Contaminant total mass flowrate per unit aquifer thickness (point source), qc^*	7.040119E-3 kg/d/m

Table 5.2.2: Values of the Grid Specifics used in the 2-D Transport Simulations

Grid Specifics	Base Case
Grid spacing, $\Delta x = \Delta y$	15 m
Number nodes in x-dir	83
Number nodes in y-dir	37 (parallel grid) 83 (diagonal grid)

Table 5.2.3: Values of the Time Steps used in the 2-D Transport Simulations

Time Steps	Base Case
Time duration	1400 d
Number time-steps	1400
Time-step size, Δt	1 d

Table 5.2.4: Values of the Key Computed Parameters used in the 2-D Transport Simulations

Computed Parameters	Base Case
Retardation factor, R	1.0
Bulk soil density, ρ_b	0.8 kg/m^3
Phasic velocity, u_x	0.4600 m/d (parallel)
	0.3253 m/d (diagonal)
Retarded phasic velocity, u'_x	0.4600 m/d (parallel)
	0.3253 m/d (diagonal)
Phasic velocity, u_y	0.0000 m/d (parallel)
	0.3253 m/d (diagonal)
Retarded phasic velocity, u'_y	0.0000 m/d (parallel)
	0.3253 m/d (diagonal)
Retarded longitudinal dispersion coefficient, D'_{xx}	9.798 m^2/d (parallel)
	5.888 m^2/d (diagonal)
Retarded transverse dispersion coefficient, D'_{yy}	1.978 m^2/d (parallel)
	5.888 m^2/d (diagonal)
Retarded cross dispersion coefficient, D'_{xy}	0.000 m^2/d (parallel)
	3.910 m^2/d (diagonal)
Cell Fourier number, $Fo_x; Fo_y$	0.0435;0.0088 (parallel)
Cell Courant number, $Co_x; Co_y$	0.0307;0.0000 (parallel)
Cell Peclet number, $Pe_x; Pe_y$	0.7042;3.4883 (parallel)

In 1D transport, only longitudinal dispersion is active and in a 2D transport problem, both longitudinal and transverse dispersion can occur. In a general 2D transport problem, the off-diagonal terms of the dispersion coefficient tensor are typically non-zero. In PORFLOW the resulting dispersive flux cross-term products such as

$$\frac{\partial}{\partial x}\left[D_{xy}\left(\frac{\partial c}{\partial y}\right)\right] \tag{5.2.12}$$

are handled consistently and are not "lumped". The lumping approximation is more commonly used in finite difference algorithms (Faust et al., 1993) to accommodate their matrix solution requirements. Typically, lumping greatly over estimates transverse dispersion. Also for many algorithms, grid orientation effects occur even though these cross-product dispersion terms are handled in a consistent formulation.

To examine these grid orientation effects in PORFLOW, two base case grids were chosen for this problem: (1) a grid aligned parallel to the aquifer flow direction consisting of 3071 nodes uniformly spaced (15 m in length) with 83 nodes along the x-axis and 37 along the y-axis and (2) a grid aligned at a 45deg diagonal to the aquifer flow direction consisting of 6889 nodes uniformly spaced (15 m in length) with 83 nodes along the x-axis and y-axis.

At the channel inlet boundary(s) (-X face; -X face and Y face) the concentration of solute in the incoming water is set to 0.0 kg/m^3. Due to the finite overall length of our mesh, at the outflow boundary(s) (+X face; +X face and +Y face) the dispersive flux (GRAD) is set to zero, while the advective flux is calculated as part of the solution. In addition, for the parallel grid the dispersive flux is set to zero at the transverse faces (-Y face and +Y face). The nodal spacing for both grid orientations is the same and the results shown should represent grid orientation effects only.

For this problem several simulations were performed. As summarized in Table 5.2.5, simulations were performed for both base cases (parallel and diagonal grids) and then two additional runs were made varying certain key physical parameters and PORFLOW options to demonstrate their impact on the results. For each simulation, a transient calculation was performed for a 1400-day duration and the results from PORFLOW at this end time are compared to the analytical solution given by Equation (5.2.8). As shown in Table 5.2.4, a range of cell Peclet, cell Courant, and cell Fourier numbers were tested.

Table 5.2.5: Summary of Simulations Performed (Base Case and Variations) on the Two-Dimensional Transport Problem

PORFLOW Options	A	B	C	D
Mesh Options				
parallel grid	x		x	x
diagonal grid		x		
Physical Parameters				
radioactive decay coef.				
$\lambda = 0.000$ d^{-1}	x	x	x	
$\lambda = 0.005$ d^{-1}				x
Solute distribution coef.				
$k_d = 0.0000$ m^3/kg	x	x		x
$k_d = 0.4375$ m^3/kg			x	

The concentration plume presented in Figure 5.2.2 represents our base case parallel grid simulation (Case A). The aquifer flow direction is aligned with the grid and the concentration plume does not exhibit any oscillatory behavior near the continuous point source using the default HYBRID nodal integration scheme. The cell Peclet number, Pe_y, transverse to the plume centerline is greater than

2. Therefore, you would expect to see slight oscillatory behavior in the concentrations transverse to the plume centerline. The HYBRID nodal integration scheme eliminated upstream oscillations in the high Peclet number 1D transport simulation by increasing the artificial dispersion. Similarly, oscillatory behavior transverse to the plume centerline is being suppressed by increased artificial dispersion in that direction.

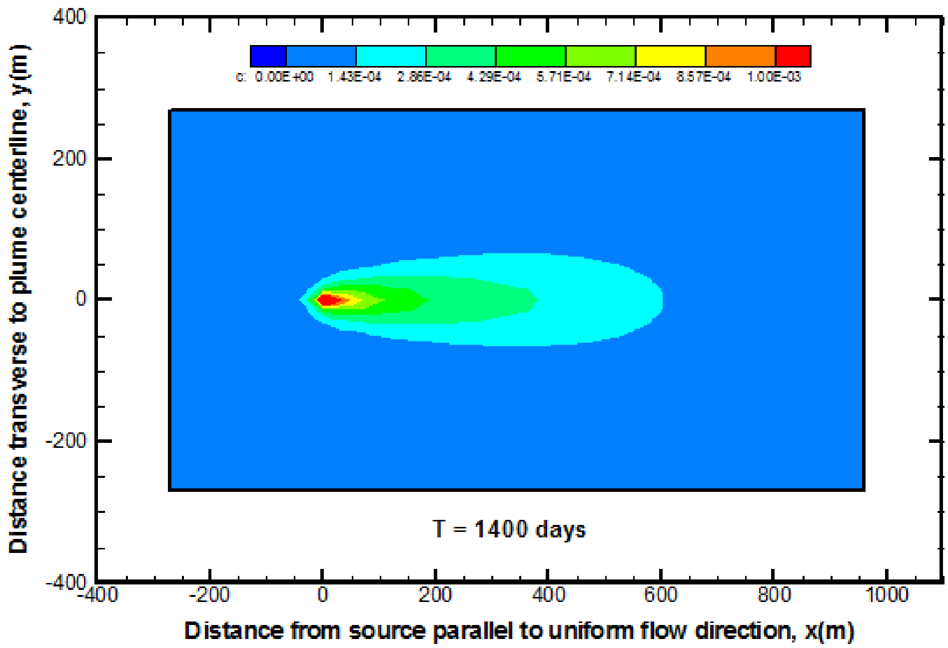

Figure 5.2.2: PORFLOW Concentration Plume for 2D Transport of the Base Case on the Parallel Grid (Case A).

Figures 5.2.3 to 5.2.5 present concentration profiles for 2D transport of the base case (Case A) along and transverse to the plume centerline at 1400 days, respectively. There is excellent agreement between the PORFLOW numerical and analytical results. Tables B.5.39 to B.5.41 complement the data shown in the figures. The PORFLOW input commands for Case A are given in Listing 63.

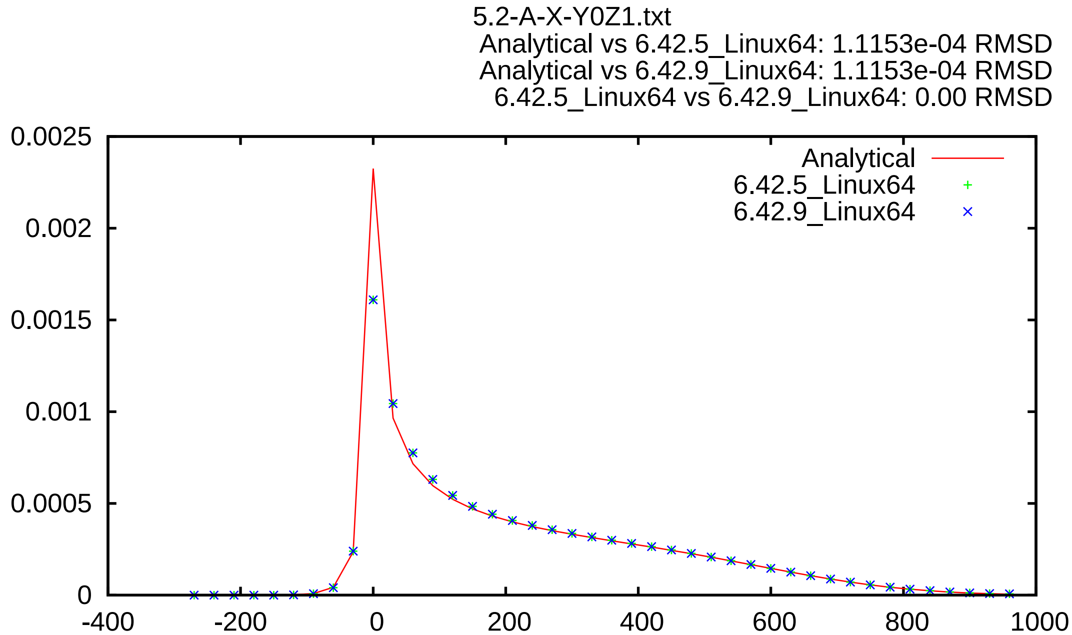

Figure 5.2.3: PORFLOW Concentration Plume for 2D Transport of the Base Case along the plume centerline (Case A).

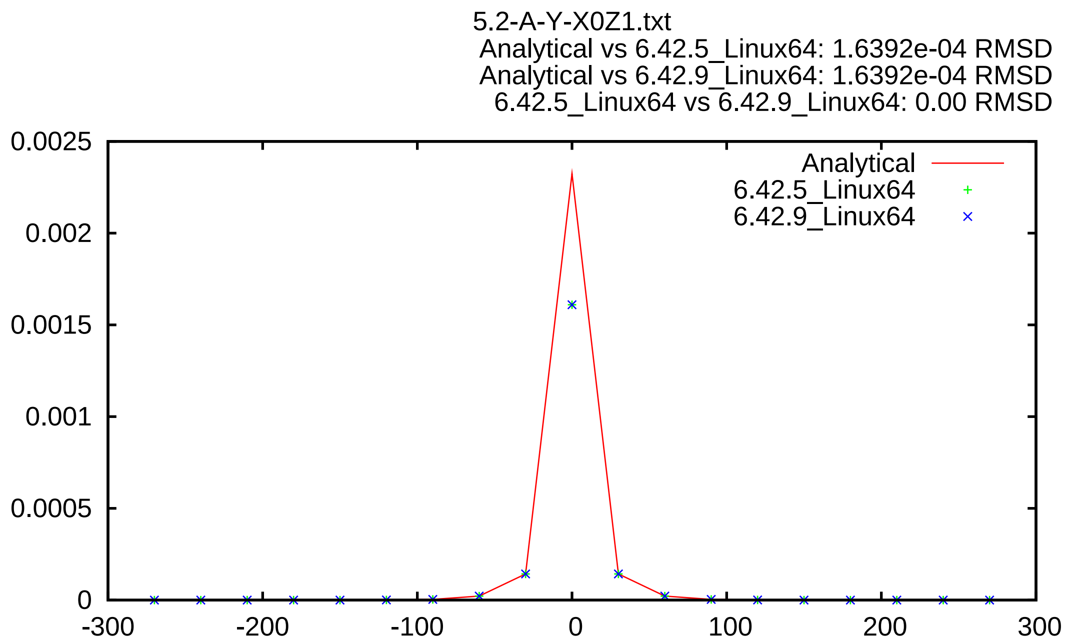

Figure 5.2.4: Concentration Profiles for 2D Transport of the Base Case transverse to the plume centerline at 0 m from the source(Case A).

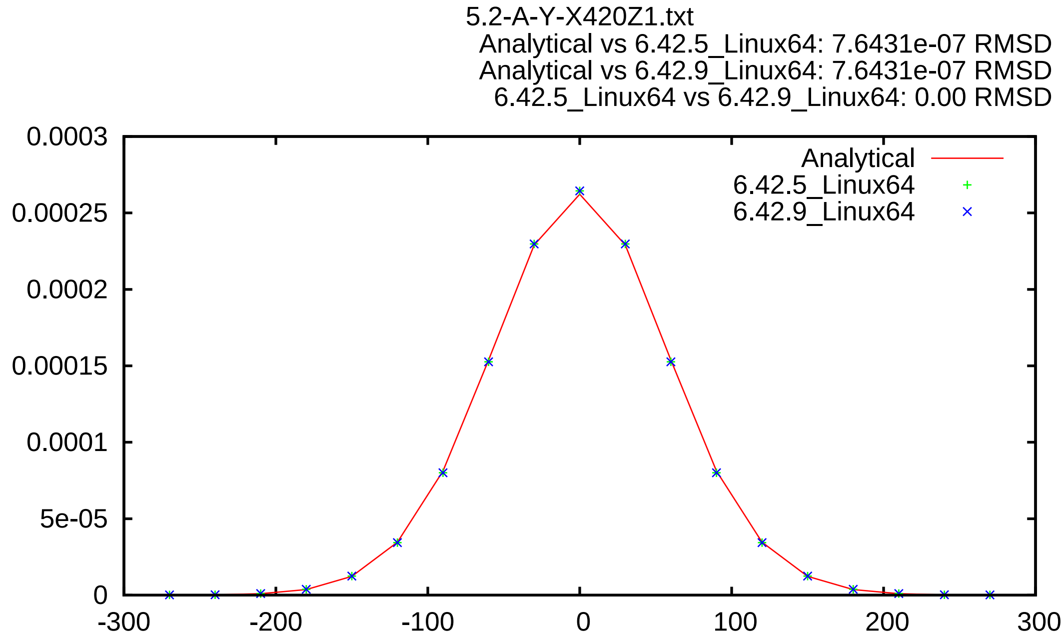

Figure 5.2.5: Concentration Profiles for 2D Transport of the Base Case transverse to the plume centerline at 420 m from the source (Case A).

The concentration plume presented in Figure 5.2.6 presents the base case diagonal grid simulation (Case B). The aquifer flow direction is aligned at a 45-degree angle with respect to the grid. The alternating stripes of concentration contours transverse to the plume centerline exhibit oscillatory behavior perhaps due to less diagonal dominance of the dispersion tensor with off diagonal terms. The HYBRID nodal integration scheme was used for this case as well. A point of interest or warning is that PORFLOW by default only computes the diagonal terms of the dispersion tensor. The user must issue the "CONDuction with TENSor diffusivity" command to invoke computation of the off-diagonal dispersion terms.

In order to compute the analytical solution by using Equation (5.2.3) and it's solutions Equation (5.2.11), we rotated the grid coordinates clockwise by 45 degrees, renormalized the Darcy velocity ($U_x = U$ and $U_y = 0$), computed the concentration values, and then rotated the grid coordinates counter-clockwise 45 degrees.

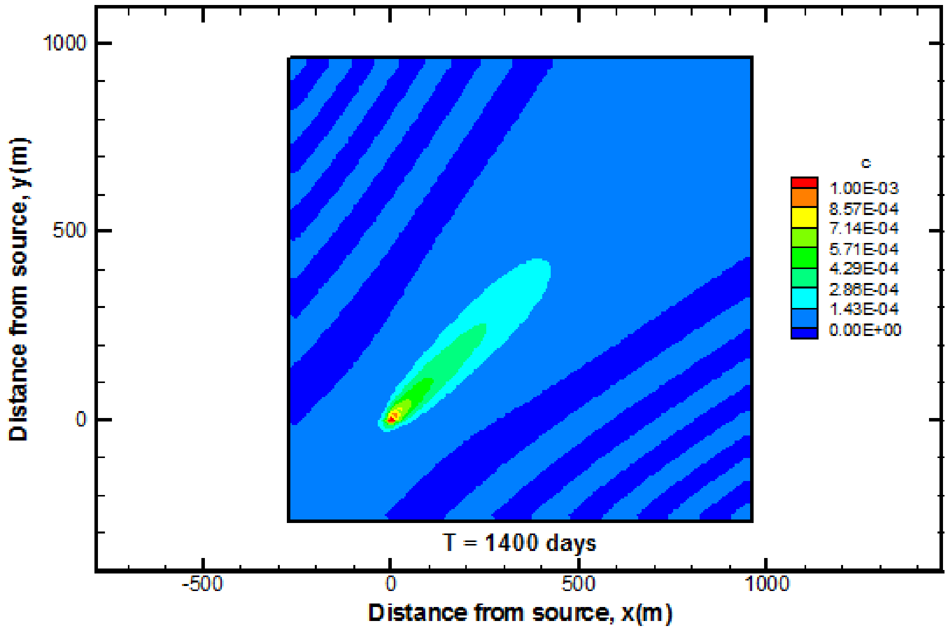

Figure 5.2.6: PORFLOW Concentration Plume for 2D Transport of the Base Case on the Diagonal Grid (Case B).

Figures 5.2.7 to 5.2.9 present concentration profiles for 2D transport of the base case (Case B) along and transverse to the plume centerline at 1400 days, respectively. There is excellent agreement between the PORFLOW numerical and analytical results. Tables B.5.42 to B.5.44 complement the data shown in the figures. The PORFLOW input commands for Case B are given in Listing 64.

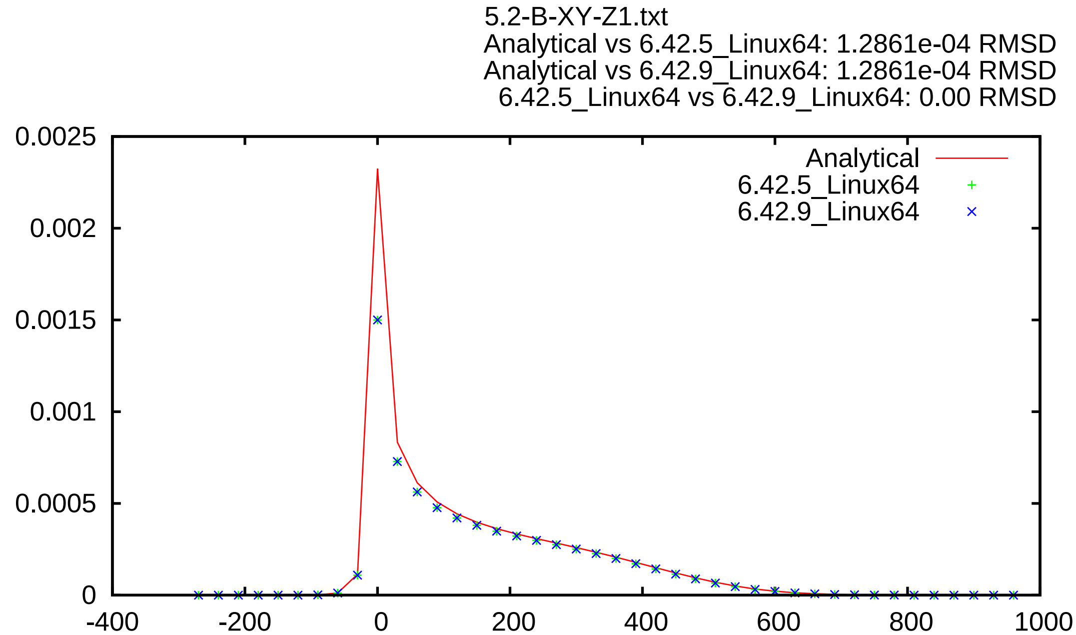

Figure 5.2.7: PORFLOW Concentration Plume for 2D along the plume centerline, diagonal grid (Case B).

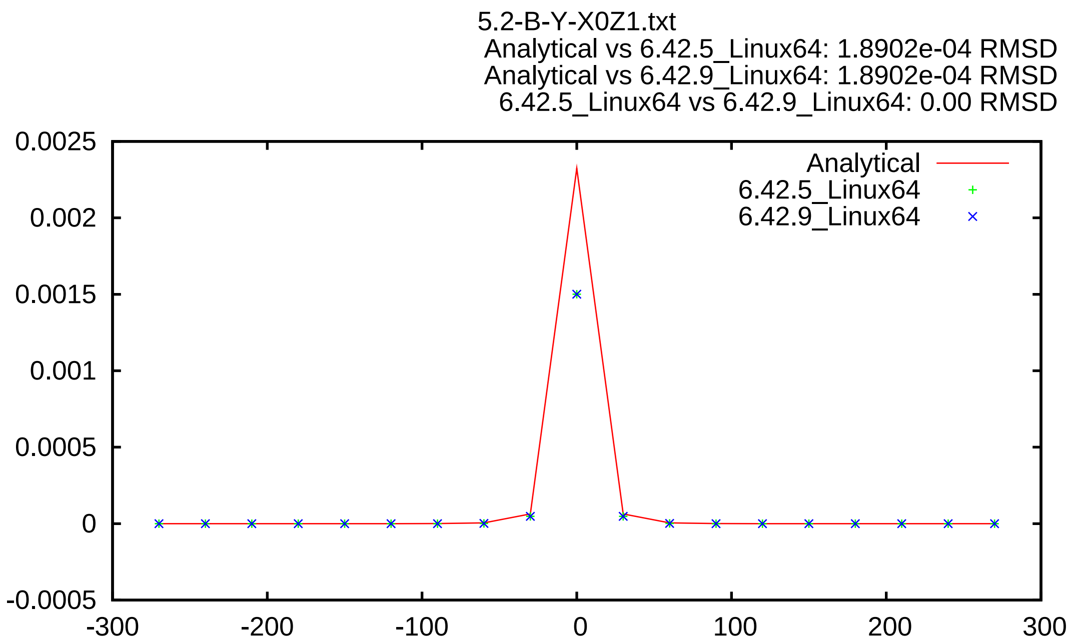

Figure 5.2.8: Concentration Profiles for 2D transverse to the plume centerline at 0 m from the source, diagonal grid (Case B).

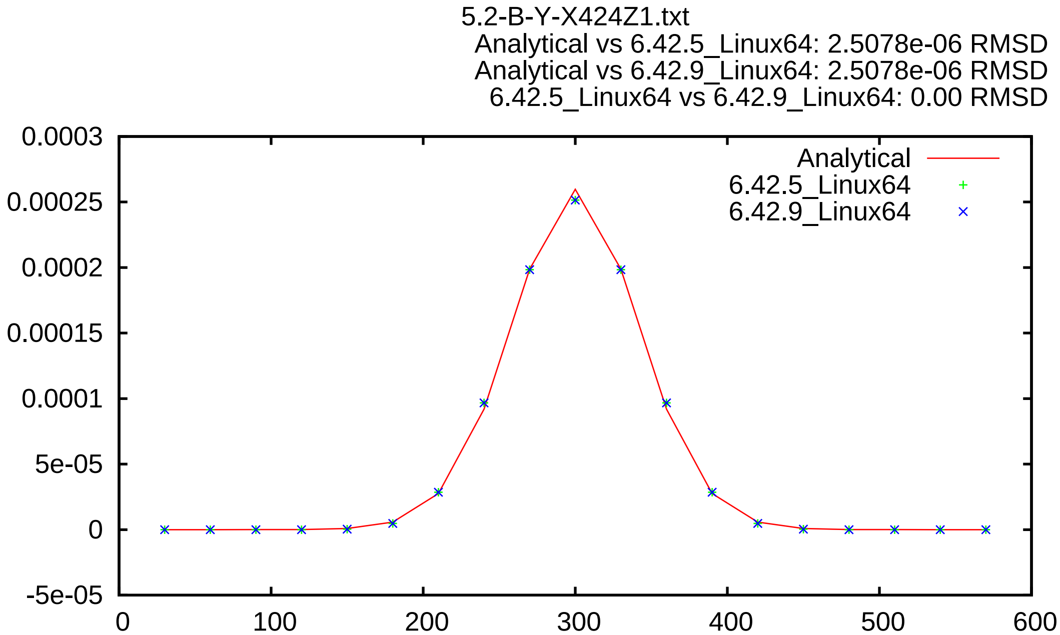

Figure 5.2.9: Concentration Profiles for 2D transverse to the plume centerline at 424 m from the source, diagonal grid (Case B).

The concentration profile presented in Figures 5.2.10 to 5.2.12 shows the effect of retardation on the base case parallel grid simulation (Case C). By adjusting the solute distribution coefficient such that the retardation factor becomes 2, the retarded dispersion coefficient and velocity are halved. There is excellent agreement between the PORFLOW numerical and analytical results. Tables B.5.45 to B.5.47 complement the data shown in the figures above. The PORFLOW input commands for Case C are given in Listing 65.

These results can be compared to the no retardation base case (Case A), where the spread of the plume has been greatly reduced.

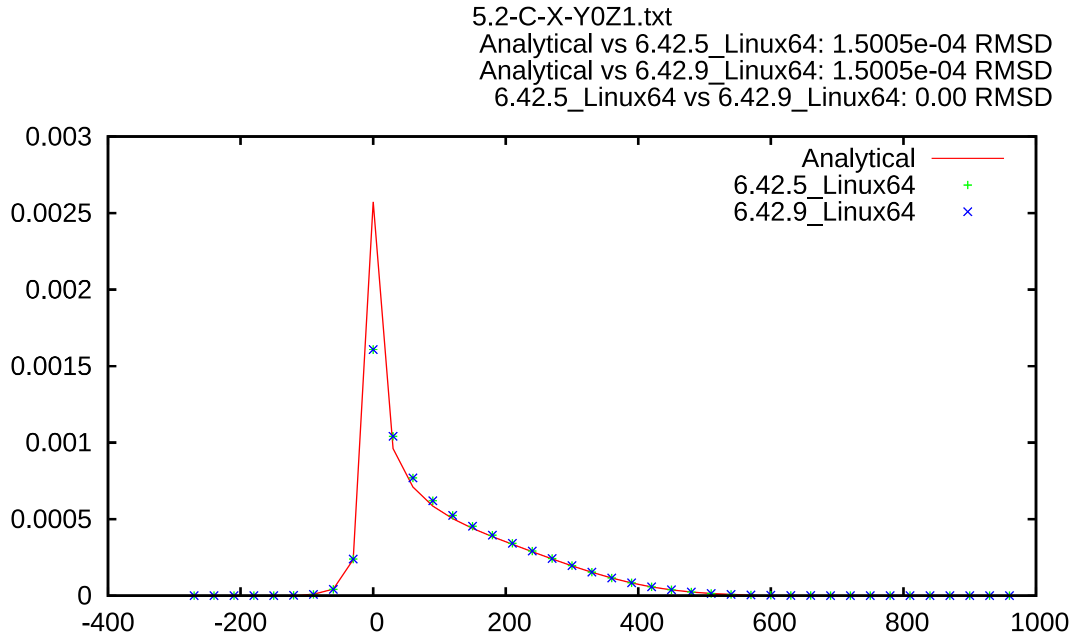

Figure 5.2.10: PORFLOW Concentration Plume for 2D Transport Showing the Effect of Retardation (Case C).

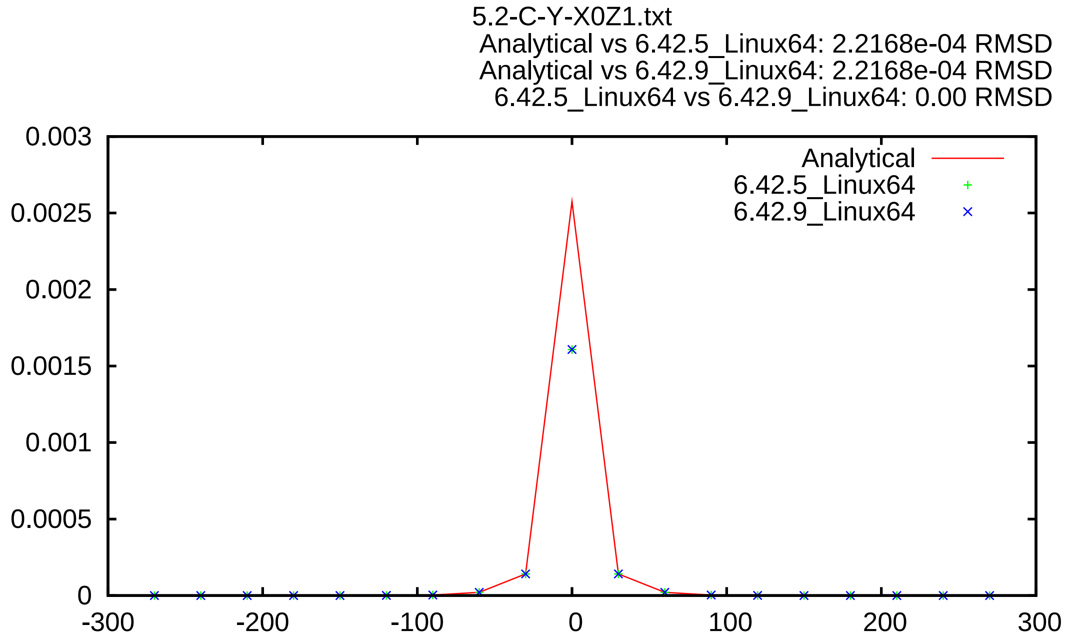

Figure 5.2.11: Concentration Profiles for 2D Transport Showing the Effect of Retardation along the Plume Centerline (Case C).

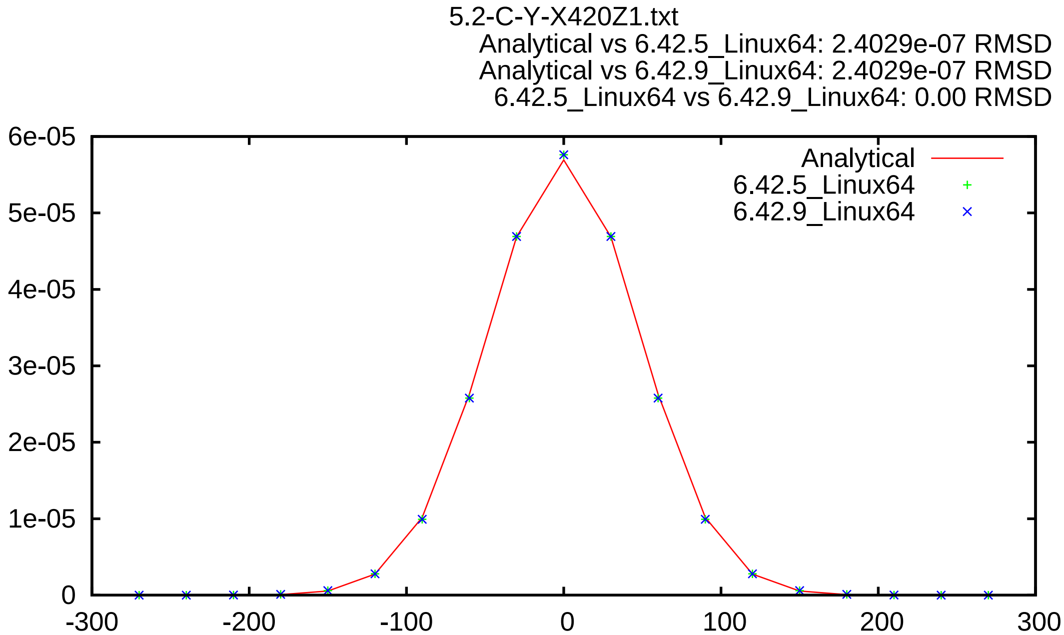

Figure 5.2.12: Concentration Profiles for 2D Transport Showing the Effect of Retardation Transverse to the Plume Centerline at x = 420 meters (Case C).

The concentration profile presented in Figures 5.2.13 to 5.2.15 shows the effect of radioactive decay on the base case parallel grid simulation (Case D). By employing a non-zero radioactive decay coefficient, the solute now becomes a non-conservative transport species. These results can be compared to the non-decaying base case (Case A), where the solute concentration profiles are reduced especially at the higher concentration levels. There is excellent agreement between the PORFLOW numerical and analytical results. Tables B.5.48 to B.5.50 complement the data shown in the figures above. The PORFLOW input commands for Case D are given in Listing 66.

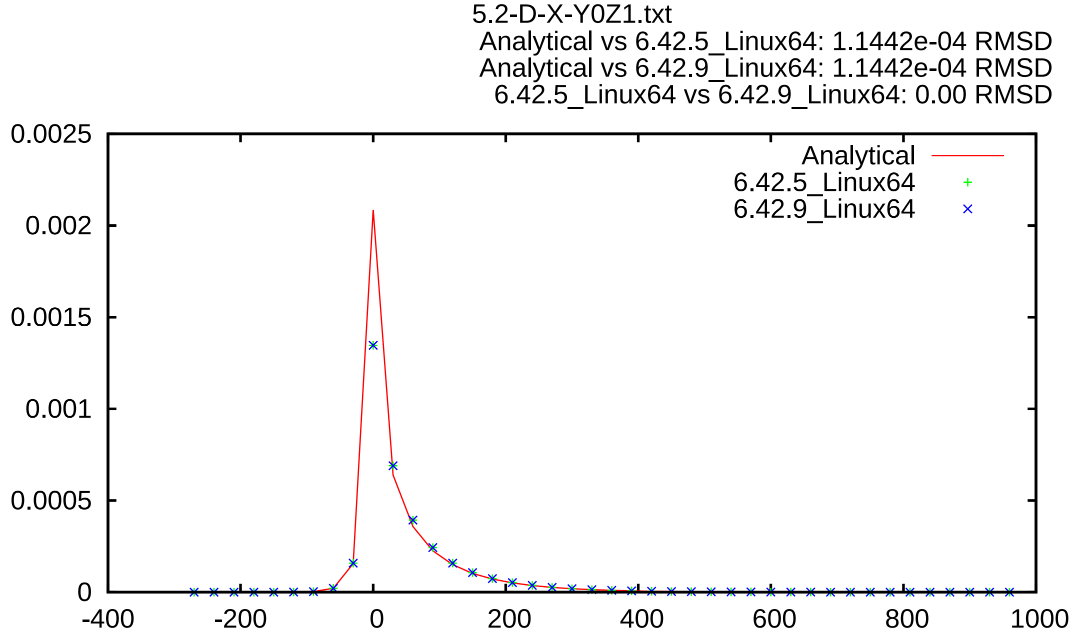

Figure 5.2.13: PORFLOW Concentration Profile for 2D Transport Showing the Effect of Radioactive Decay along the Plume Centerline (Case D).

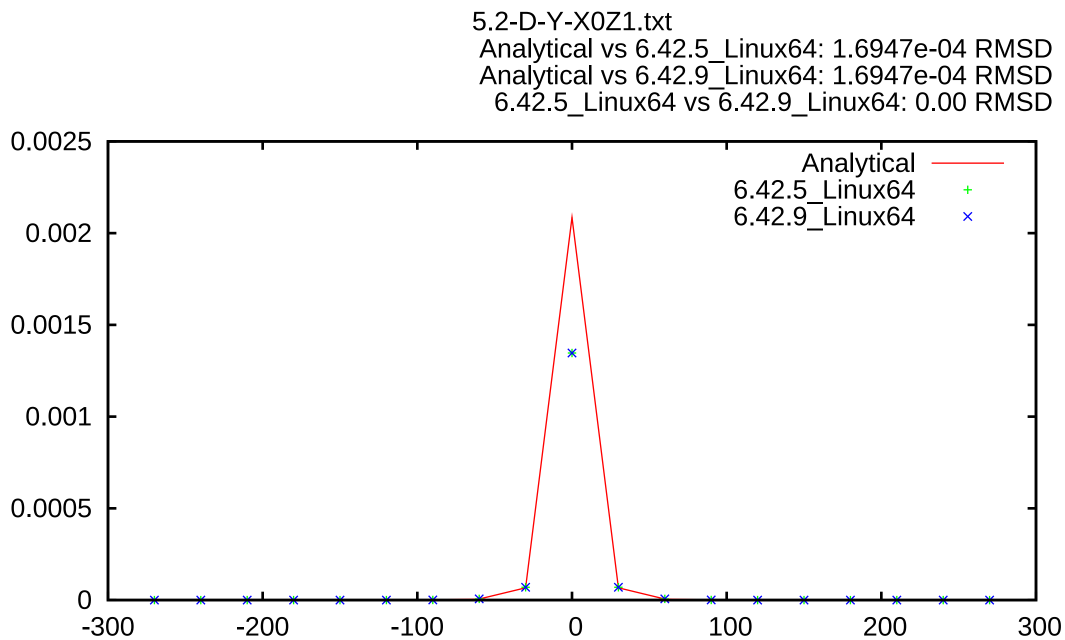

Figure 5.2.14: Concentration Profiles for 2D Transport Showing the Effect of Radioactive Decay along the Plume Centerline at x = 0 meters (Case D).

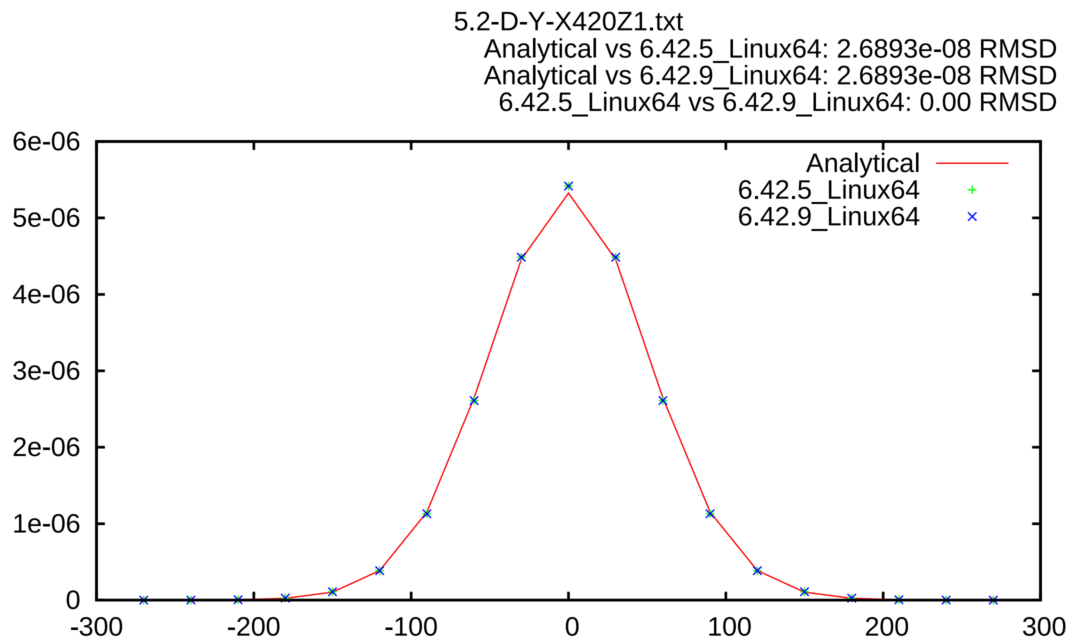

Figure 5.2.15: Concentration Profiles for 2D Transport Showing the Effect of Radioactive Decay Transverse to the Plume Centerline at x = 420 meters (Case D).

The differences in the PORFLOW and Analytical solutions could be due to the implementation of the Green's functions or it could be due to the integration steps PORFLOW performs during its calculations or it could be a combination of the above.

5.3 Three-Dimensional Saturated Solute Transport in a Uniform Flow Field

This problem deals with three-dimensional advection-dispersion of a conservative solute species from a point source through an infinite porous medium. Based upon the problem definition, this problem results in an analytic solution that is axisymmetric in solute concentrations. However, the problem will be solved analytically and numerically in 3D Cartesian coordinates. It is used to demonstrate PORFLOW's capability to solve 3D transport problems and to yield 3D results that are indeed axisymmetric. This problem also tests PORFLOW's formulation of transverse dispersion in more than one dimension. The physical schematic of this problem is essentially the same as for the 2D transport problem discussed in Section 5.2 and shown in Figure 5.2.1(a). In practice, the idealized conditions are analogous to continual leakage, leaching, or injection of a contaminant into a large confined aquifer from buried waste in a landfill or an improperly sealed partially penetrating injection well. It is assumed that the total rate of fluid leakage, leaching, or injection into the aquifer is negligible and does not disturb the ambient groundwater flow regime. Analytically and numerically, the problem is treated as a point source in 3D Cartesian coordinates.

As illustrated in Figure 5.2.1(b), a conservative contaminant is continuously released from a point source downstream of an inflow boundary (containing zero contaminant) into a large aquifer unit whose groundwater flow is assumed to be uniform. The point source is located at a depth such that end effects at the top and bottom of the aquifer unit are negligible. Both hydrodynamic dispersion and molecular diffusion are allowed for the transported species. It is assumed that the contaminant mass flow rate at the point source remains constant, the aquifer's flow rate is uniform and constant, the aquifer is sufficiently large to neglect end effects, and the homogeneous aquifer's properties (such as porosity, soil type, water saturation) are uniform and constant.

Equation (5.1.4) represents the non-conservative form of the multi-dimensional advection-dispersion equation for solute transport through a variably saturated porous media. Taking the 3D form of Equation (5.1.4) and assuming that one point exists at the areal location x = y = z = 0, with a constant water saturation level, and constant material coefficients, results in

$$\begin{aligned}\frac{\partial c}{\partial t} = {} & D'_{xx}\frac{\partial^2 c}{\partial x^2} + D'_{xy}\frac{\partial^2 c}{\partial x \partial y} + D'_{xz}\frac{\partial^2 c}{\partial x \partial z} \\ & + D'_{yx}\frac{\partial^2 c}{\partial y \partial x} + D'_{yy}\frac{\partial^2 c}{\partial y^2} + D'_{yz}\frac{\partial^2 c}{\partial y \partial z} \\ & + D'_{zx}\frac{\partial^2 c}{\partial z \partial x} + D'_{zy}\frac{\partial^2 c}{\partial z \partial y} + D'_{zz}\frac{\partial^2 c}{\partial z^2} \\ & - u'_x\frac{\partial c}{\partial x} - u'_y\frac{\partial c}{\partial y} - u'_z\frac{\partial c}{\partial z} \\ & - \lambda c - \frac{q(c - c^*)}{\theta_e R}\end{aligned} \tag{5.3.1}$$

where

$$D'_{xx} = \frac{\alpha_L \dfrac{U_x^2}{|U|} + \alpha_T \dfrac{U_y^2 + U_z^2}{|U|} + \theta_e \tau D_m}{\theta_e R} \tag{5.3.2a}$$

$$D'_{yy} = \frac{\alpha_L \dfrac{U_y^2}{|U|} + \alpha_T \dfrac{U_x^2 + U_z^2}{|U|} + \theta_e \tau D_m}{\theta_e R} \tag{5.3.2b}$$

$$D'_{zz} = \frac{\alpha_L \dfrac{U_z^2}{|U|} + \alpha_T \dfrac{U_x^2 + U_y^2}{|U|} + \theta_e \tau D_m}{\theta_e R} \tag{5.3.2c}$$

$$D'_{xy} = D'_{yx} = \frac{(\alpha_L - \alpha_T) \dfrac{U_x U_y}{|U|}}{\theta_e R} \tag{5.3.2d}$$

$$D'_{xz} = D'_{zx} = \frac{(\alpha_L - \alpha_T) \dfrac{U_x U_z}{|U|}}{\theta_e R} \tag{5.3.2e}$$

$$D'_{yz} = D'_{zy} = \frac{(\alpha_L - \alpha_T) \dfrac{U_y U_z}{|U|}}{\theta_e R} \tag{5.3.2f}$$

If the flow field is aligned with the x-axis, Equation (5.3.1) reduces to

$$\frac{\partial c}{\partial t} = D'_{xx} \frac{\partial^2 c}{\partial x^2} + D'_{yy} \frac{\partial^2 c}{\partial y^2} + D'_{zz} \frac{\partial^2 c}{\partial z^2} - u'_x \frac{\partial c}{\partial x} - \lambda c - \frac{q(c - c^*)}{\theta_e R} \tag{5.3.3}$$

For our infinite confined aquifer the initial conditions are

$$c(x, y, z, 0) = 0 \tag{5.3.4}$$

and the boundary conditions are:

$$c(\pm\infty, y, z, t) = 0 \tag{5.3.5a}$$

$$c(x, \pm\infty, z, t) = 0 \tag{5.3.5b}$$

$$c(x, y, \pm\infty, t) = 0 \tag{5.3.5c}$$

These boundary conditions are equivalent to assuming that the dispersive flux of the solute is 0 at $\pm\infty$ or

$$\lim_{x \to \pm\infty} \left(\frac{\partial c}{\partial x} \right) = 0 \tag{5.3.6a}$$

$$\lim_{y \to \pm\infty} \left(\frac{\partial c}{\partial y} \right) = 0 \tag{5.3.6b}$$

$$\lim_{z \to \pm\infty} \left(\frac{\partial c}{\partial z} \right) = 0 \tag{5.3.6c}$$

For finite times there exists finite values of x, y and z where Equations (5.3.6a) to (5.3.6c) remain valid.

As mentioned above, it is assumed that the total rate of fluid flow, q, into the aquifer due to the source is negligible and does not disturb the ambient groundwater flow regime. In order to have a finite mass flow rate of contaminant requires

$$\lim_{q \to 0}(qc^*) < \infty \Rightarrow \lim_{q \to 0}(c^*) = \pm\infty \tag{5.3.7}$$

Equation (5.3.3), a linear partial differential equation subject to the initial and boundary conditions given by Equations (5.3.5a) to (5.3.5c) and (5.3.4), can be solved by applying Laplace and Fourier transforms to derive at the appropriate Green's functions. For details, see (Yeh, 1981). The general solution for a continuous point source takes the form:

$$c(x,y,z,t) = \frac{qc^*}{\theta_e R}\int_0^t G(x|\xi;y|\eta;z|\zeta;t|\tau)d\tau \tag{5.3.8}$$

where $G(x|\xi;y|\eta;z|\zeta;t|\tau)$ is the Green's function over the domain space. For our analytical problem, we shall limit our flow field to flow parallel to the x-axis only. This results in a dispersion tensor that is diagonal and a separable Green's function. It can be shown that for a simple geometry such as a separable coordinate system, Green's function can be expressed as:

$$G(x|\xi;y|\eta;z|\zeta;t|\tau) = G_1(x|\xi;t|\tau)G_2(y|\eta;t|\tau)G_3(z|\zeta;t|\tau) \tag{5.3.9}$$

where for a point source in the x-direction (infinite domain, parallel to flow):

$$G_1(x|\xi;t|\tau) = \frac{S(t-\tau)}{\sqrt{4\pi D'_{xx}(t-\tau)}}\exp\left[-\frac{\{(x-\xi)-u'_x(t-\tau)\}^2}{4D'_{xx}(t-\tau)} - \lambda(t-\tau)\right] \tag{5.3.10}$$

and for a point source in the y-direction (infinite domain, transverse to flow):

$$G_2(y|\eta;t|\tau) = \frac{S(t-\tau)}{\sqrt{4\pi D'_{yy}(t-\tau)}}\exp\left[-\frac{(y-\eta)^2}{4D'_{yy}(t-\tau)}\right] \tag{5.3.11}$$

and for a point source in the z-direction (infinite domain, transverse to flow):

$$G_3(z|\zeta;t|\tau) = \frac{S(t-\tau)}{\sqrt{4\pi D'_{zz}(t-\tau)}}\exp\left[-\frac{(z-\zeta)^2}{4D'_{zz}(t-\tau)}\right] \tag{5.3.12}$$

where $S(t-\tau)$ is the step function.

The evaluation of the analytical expressions, Equations (5.3.8) to (5.3.12), for a specific problem is performed numerically using the Listing 102 in Appendix C.

In PORFLOW, we will model this axisymmetric problem using a 3D mesh containing equally spaced nodes in all three directions. The point source given above will be located at the center of the yz plane, 270 meters from the inflow boundary in the x-direction ($x = y = z = 0$).

Even though we are considering an aquifer unit with infinite extent in the areal and vertical directions, our numerical model has finite size. At our inflow boundary we shall assume that the incoming fluid remains contaminant free (i.e., the contaminant concentration immediately upstream of the source does not extend back up to the inflow boundary). We also assume that the vertical extent of the top and bottom faces of our mesh from the point source is sufficient distance that negligible amounts of contaminant reaches these boundary faces. For the parameters chosen (i.e., longitudinal dispersivity, Darcy velocity, and source location), the above assumption remains valid over the time of interest.

In addition, PORFLOW requires input about the total mass flowrate entering the aquifer at the point source. An arbitrarily small but finite value for qc^* was chosen to maintain computed solute concentration values near the source to acceptable values. Steep concentration gradients near a source can result in oscillatory behavior unless the local grid is sufficiently refined. For demonstration purposes, we have chosen uniform coarse grids and are primarily interested in results away from the source location. The simulations are done by specifying a velocity field and running the solute transport option only. In this way, the flow rate entering the aquifer due to the point source does not alter the aquifer flow field.

Values of the physical parameters used in the verification simulations are presented in Tables 5.3.1 to 5.3.3. For the conservative solute transport case, the parameters were selected based on data from a field investigation on hexavalent chromium contamination reported by Perlmutter and Lieber (1970) and Wilson and Miller (1978).

Table 5.3.1: Values of the Physical Parameters used in the 3-D Transport Simulations

Physical parameters	All Cases
Porosity, ϕ	0.35
Apparent molecular dispersion coefficient, $\theta_e \tau D_m$	0.0 m^2/d
Water saturation, S_w	1.0
Radioactive decay constant, λ	0.0 d^{-1}
Soil density, ρ_s	1.23077 kg/m^3
Solute distribution coefficient, k_d	0.0 m^3/kg
Boundary solute concentration, c_o	0.0 kg/m^3
Contaminant total mass flowrate (point source), qc^*	0.117922 kg/d

Table 5.3.2: Values of the dispersivity Parameters used in the 3-D Transport Simulations

Physical parameters	Base Case	A	B	C
Longitudinal dispersivity, α_L	21.3 m			
Transverse dispersivity, α_T	4.3 m			
Longitudinal dispersivity, α_{LH}		21.3 m	21.3 m	21.3 m
Longitudinal dispersivity, α_{LV}		21.3 m	4.3 m	4.3 m
Transverse dispersivity, α_{TH}		4.3 m	4.3 m	4.3 m
Transverse dispersivity, α_{TV}		4.3 m	0.8 m	0.8 m

Table 5.3.3: Values of the Darcy velocities used in the 3-D Transport Simulations

Physical parameters	Base Case	1	2	3
Darcy velocity, U_x	0.161 m/d	0.161 m/d	0.1138 m/d	0.1138 m/d
Darcy velocity, U_y	0.0 m/d	0.0 m/d	0.1138 m/d	0.0 m/d
Darcy velocity, U_z	0.0 m/d	0.0 m/d	0.0 m/d	0.1138 m/d

Table 5.3.4: Values of the Grid Specifics used in the 3-D Transport Simulations

Grid Specifics	Base Case
Grid spacing, $\Delta x = \Delta y = \Delta z$	15 m
Number nodes in x-dir	83
Number nodes in y-dir	37
Number nodes in z-dir	37

Table 5.3.5: Values of the Time Steps used in the 3-D Transport Simulations

Time Steps	Base Case
Time duration	1400 d
number time-steps	1400
time-step size, Δt	10 d

Table 5.3.6: Values of the Key Computed Parameters used in the 3-D Transport Simulations

Computed Parameters	Base Case
Retardation factor, R	1.0
Bulk soil density, ρ_b	0.8 kg/m^3
Phasic velocity, u_x	0.4600 m/d
Retarded phasic velocity, u'_x	0.4600 m/d
Phasic velocity, u_y	0.0000 m/d
Retarded phasic velocity, u'_y	0.0000 m/d
Retarded longitudinal dispersion coefficient, D'_{xx}	9.798 m^2/d
Retarded transverse dispersion coefficient, $D'_{yy} = D'_{zz}$	1.978 m^2/d
Retarded cross dispersion coefficient, $D'_{xy} = D'_{xz} = D'_{yz}$	0.000 m^2/d
Cell Fourier number, $Fo_x; Fo_y = Fo_z$	0.0435; 0.0879
Cell Courant number, $Co_x; Co_y = Co_z$	0.0307; 0.0000
Cell Peclet number, $Pe_x; Pe_y = Pe_z$	0.7042; 3.4884

In 1D transport, only longitudinal dispersion is active. In a 2D transport problem, both longitudinal and transverse dispersion can occur. In 3D transport, transverse dispersion occurs throughout the plane perpendicular to the flow direction. In a general 3D transport problem, the off-diagonal terms of the dispersion coefficient tensor are typically non-zero. If the grid is aligned parallel to the groundwater flow direction, then only the diagonal terms of the hydrodynamic dispersion tensor are non-zero.

To examine in PORFLOW transverse dispersion into a plane perpendicular to groundwater flow without the added complication of cross-term products resulting from the dispersion tensor, a base case grid was chosen for a problem that is aligned parallel to the aquifer flow direction. This grid consists of 113,627 nodes uniformly sized (15 m in length) with 83 nodes along the x-axis and 37 along the y- and z-axes, respectively. This number of nodes is about half of the currently practical node limit of 256,000 nodes.

Figure 5.3.1 illustrates the problem layout with a chair cut showing the point source location and to highlight the plume centerline and its basic axisymmetric development in the transverse direction. At the channel inlet boundary (-X face), the concentration of solute in the incoming water is set to 0.0 kg/m^3. Due to the finite overall length of our mesh, at the outflow boundary (+X face) the dispersive flux (GRAD) is set to zero, while the advective flux is computed as part of the solution. In addition, the dispersive flux is set to zero at the transverse faces (-Y face, +Y face, -Z face and +Z face). The aquifer is assumed to be completely saturated.

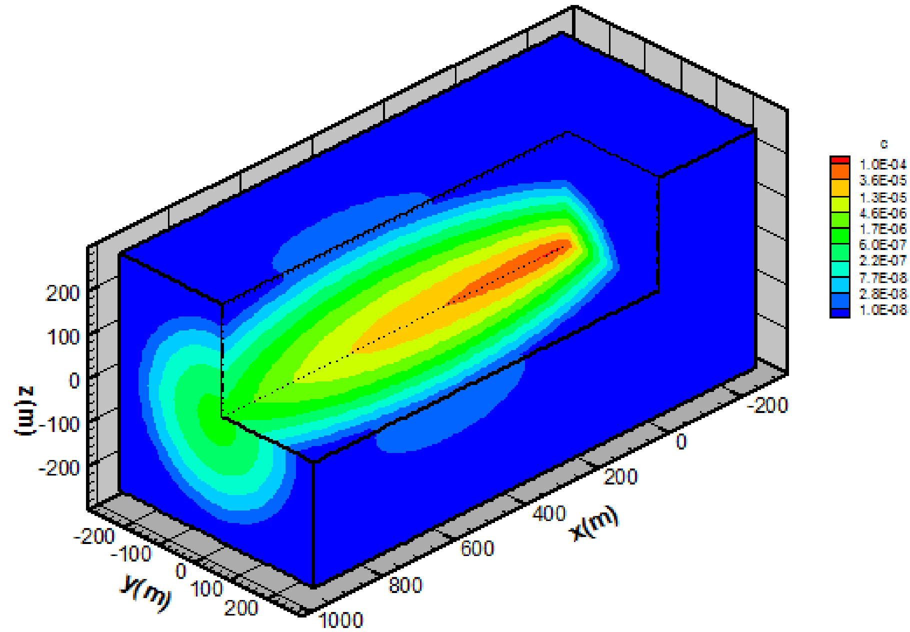

Figure 5.3.1: PORFLOW Concentration Plume for 3D Transport of the Base Case on a Parallel Grid.

This problem tested four cases. The base case, which uses the 2-parameter model for longitudinal and transverse dispersivities (α_L and α_T); case A, which uses the 4-parameter model (α_{LH}; α_{LV}; α_{TH}; α_{TV}) with the values of $\alpha_{LH} = \alpha_{LV}$ and $\alpha_{TH} = \alpha_{TV}$. To be comparable with (Aleman, 2007) and (Aleman and Flach, 2010), the transverse measurements were done at X distances of 120m and 210m. The analytical results of these parameter settings are identical and the PORFLOW results are slightly better (smaller RMSD) for the 4-parameter model. This is to be expected due to the additional degrees of freedom provided by the additional parameters. Cases B-1, B-2, and B-3 test the three parameter model of dispersivity. Case C-3 tests the 4-parameter model. The analytical solution cannot be trusted for Case C-3 because the Green's function, as implemented, is not capable of addressing the 4-parameter model. A solution to this issue is to implement a Green's function capable of using these parameters. In addition, the off-diagonal terms are treated as being zero; however for Cases B and C these terms are likely to be non-zero.

The results from the simulations, analytical and numerical, are shown in Figures 5.3.2 to 5.3.41. These results are also presented in tabular form in Tables B.5.51 to B.5.90. The PORFLOW input commands for the 3D transport simulation are shown in Listings 67 to 74.

The analytical results were computed using the code in Appendix C.

There are no differences between PORFLOW versions. The differences in the Analytical and PORFLOW solutions are minimal.

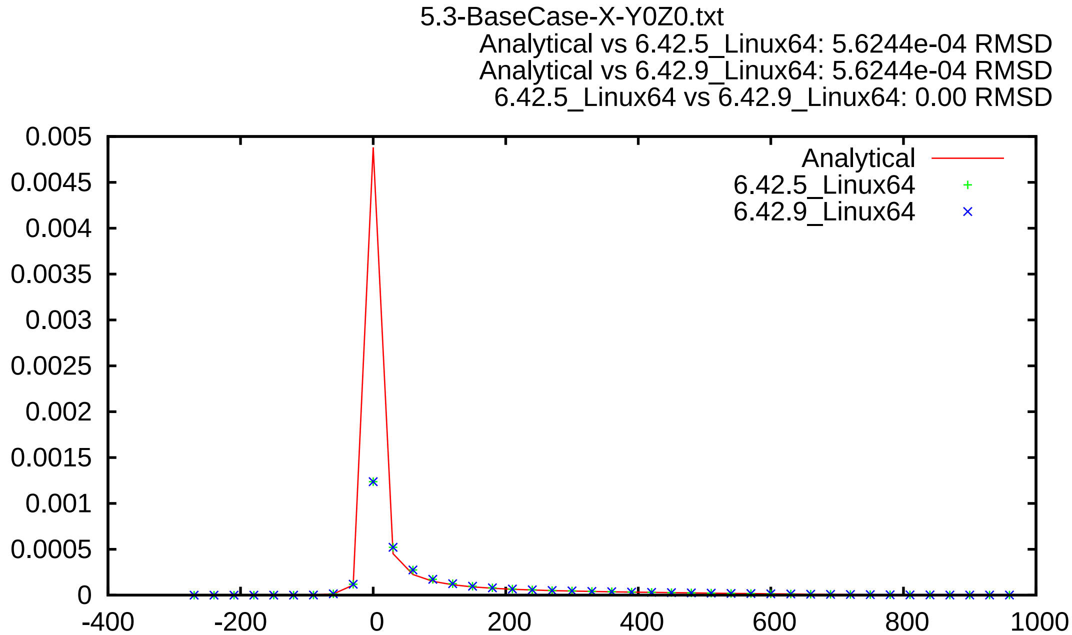

Figure 5.3.2: Concentration Profiles for 3D Transport along the Plume Centerline (Base Case).

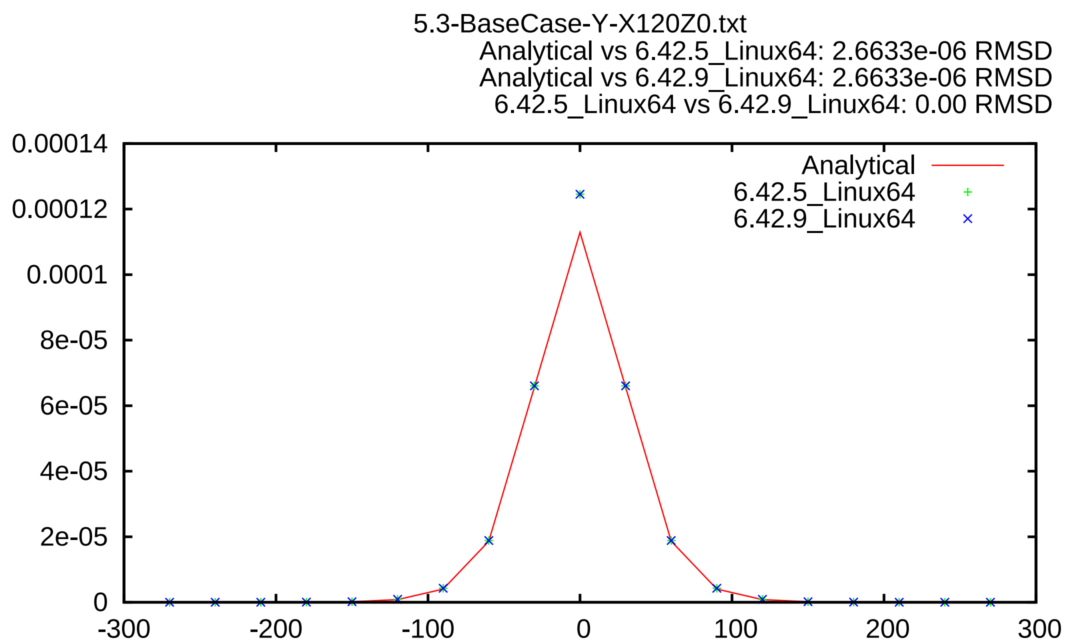

Figure 5.3.3: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, at x = 120 meters (Base Case).

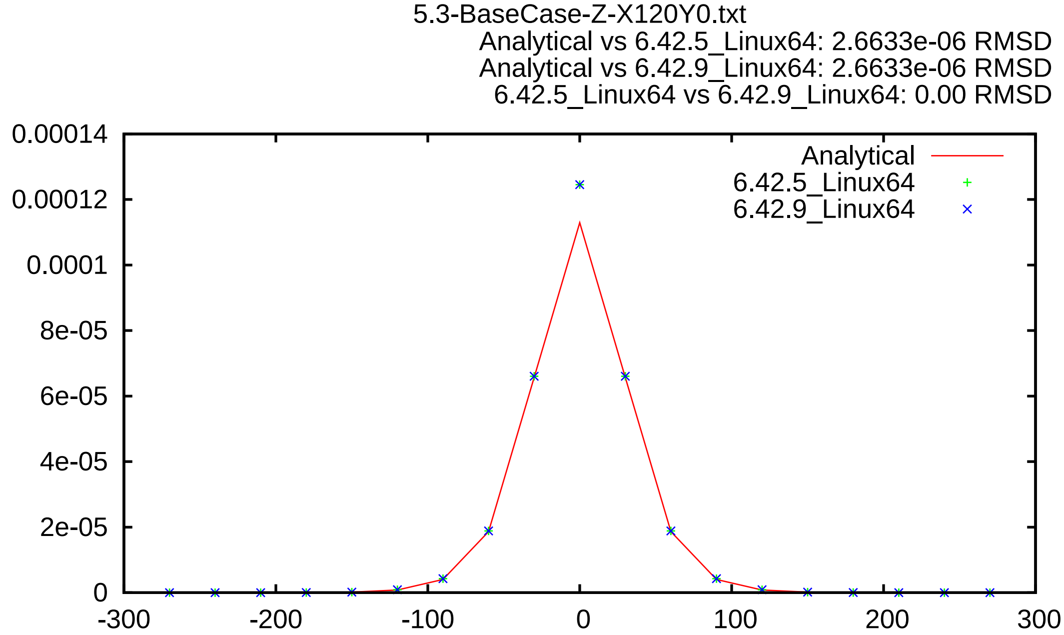

Figure 5.3.4: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, at x = 120 meters (Base Case).

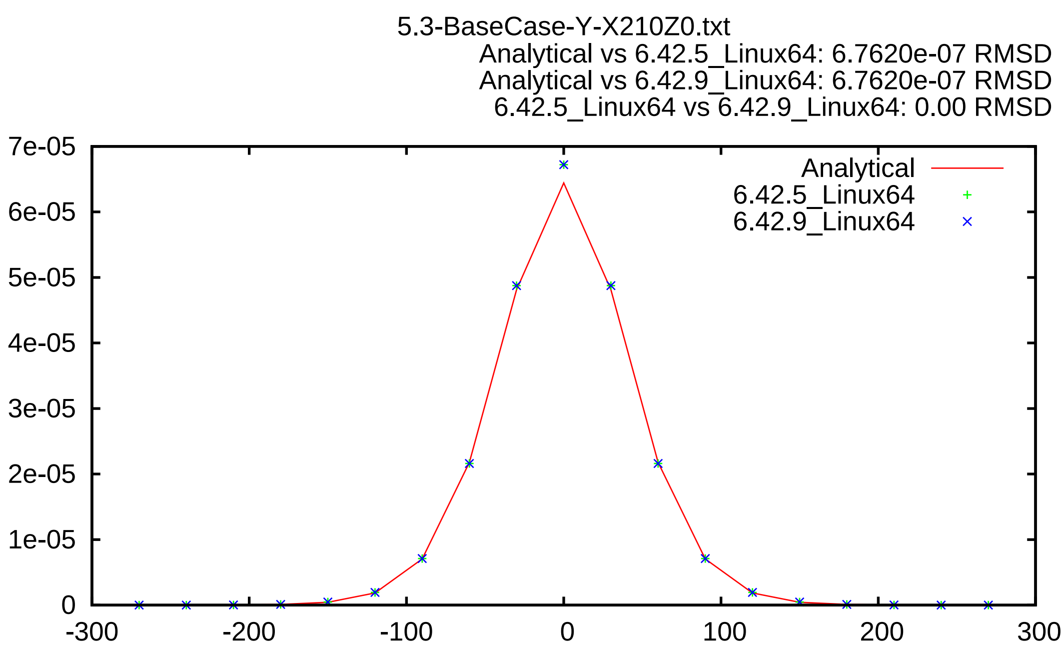

Figure 5.3.5: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, at x = 210 meters (Base Case).

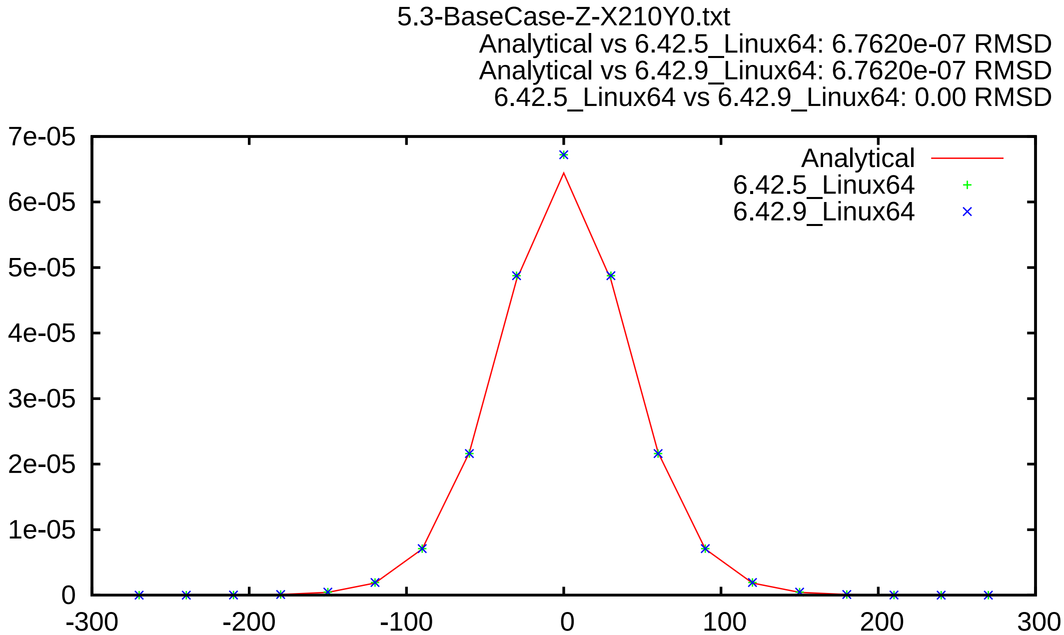

Figure 5.3.6: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, at x = 210 meters (Base Case).

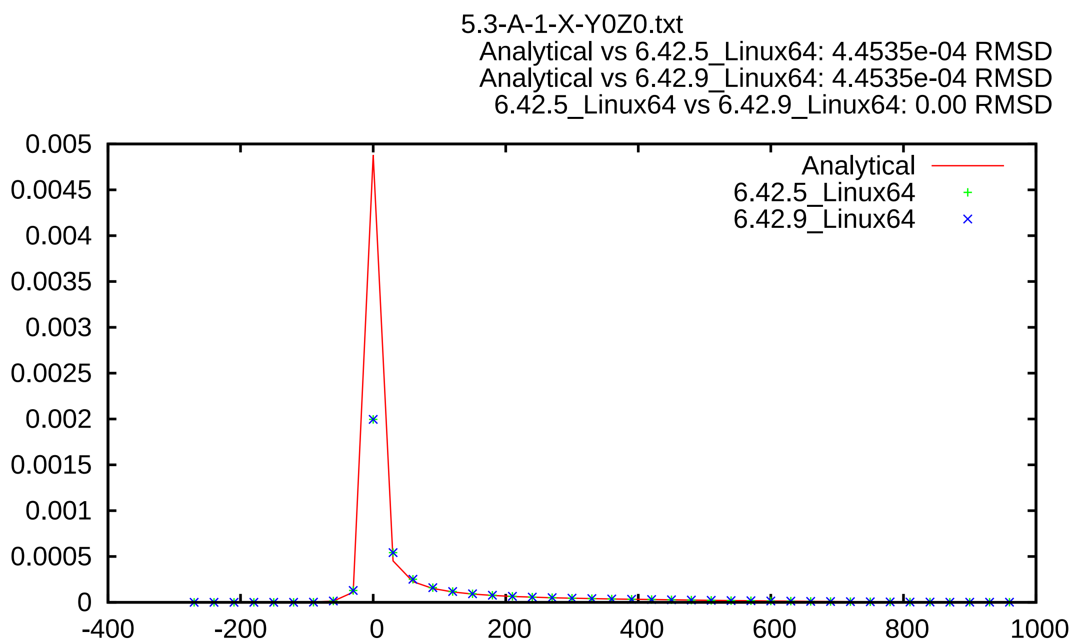

Figure 5.3.7: Concentration Profiles for 3D Transport along the Plume Centerline (Case A1).

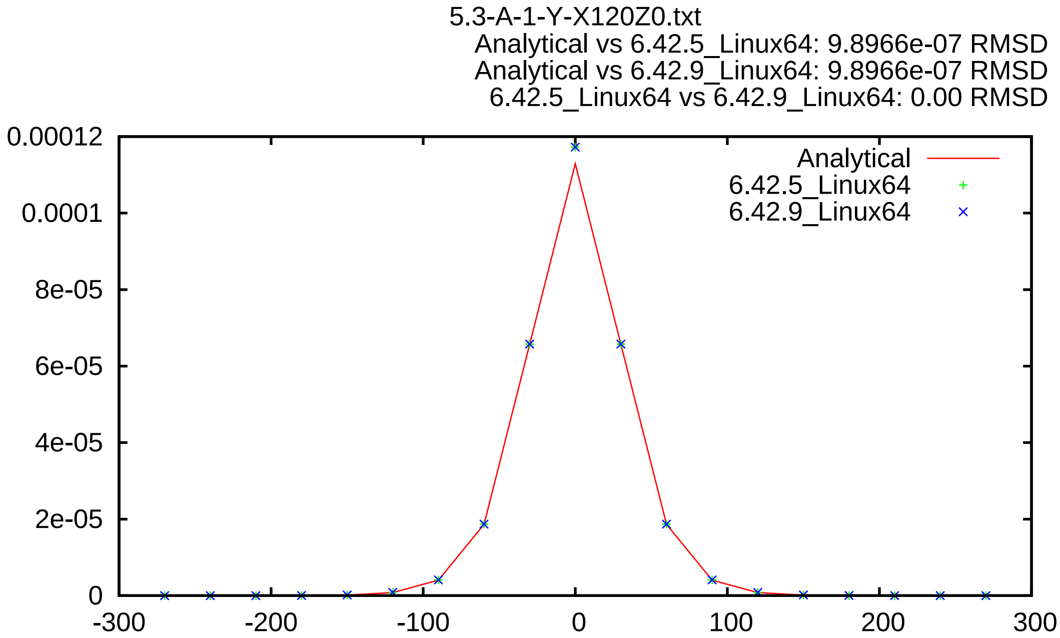

Figure 5.3.8: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 120 meters (Case A1).

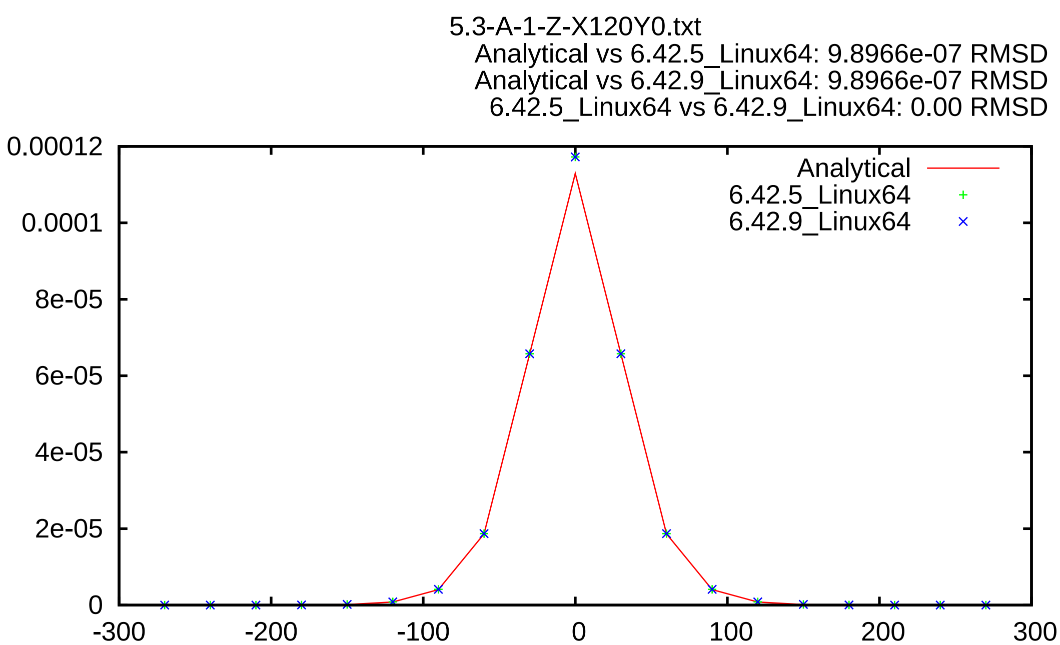

Figure 5.3.9: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 120 meters (Case A1).

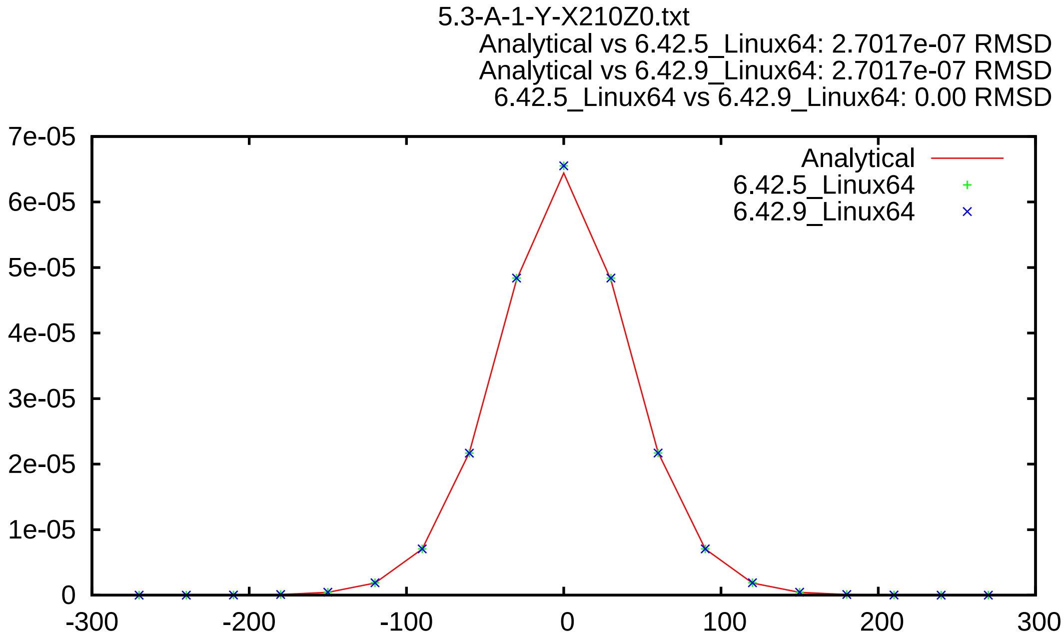

Figure 5.3.10: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 210 meters (Case A1).

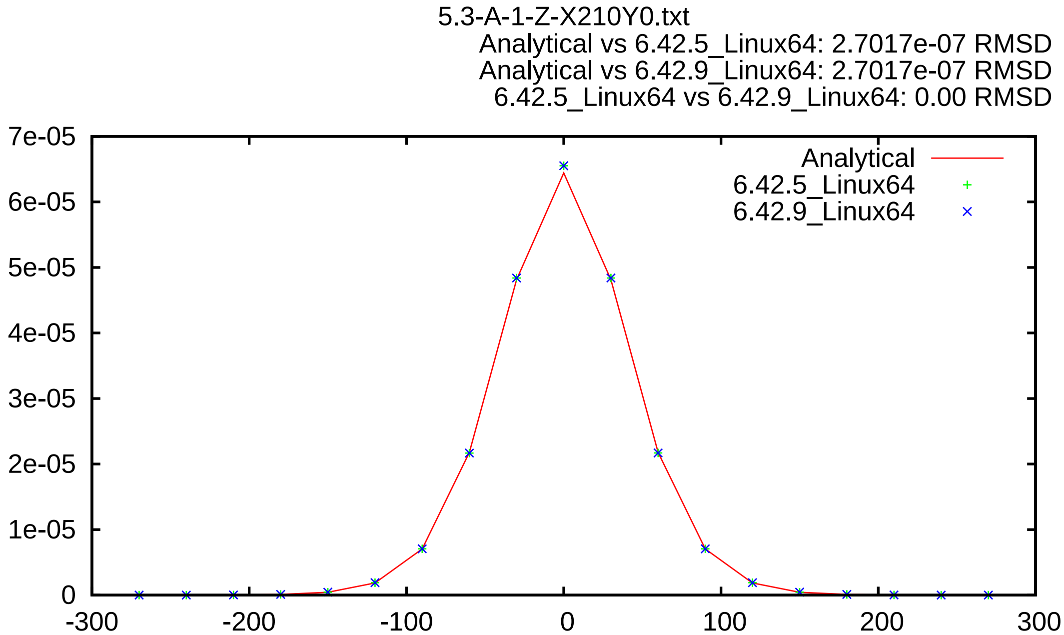

Figure 5.3.11: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 210 meters (Case A1).

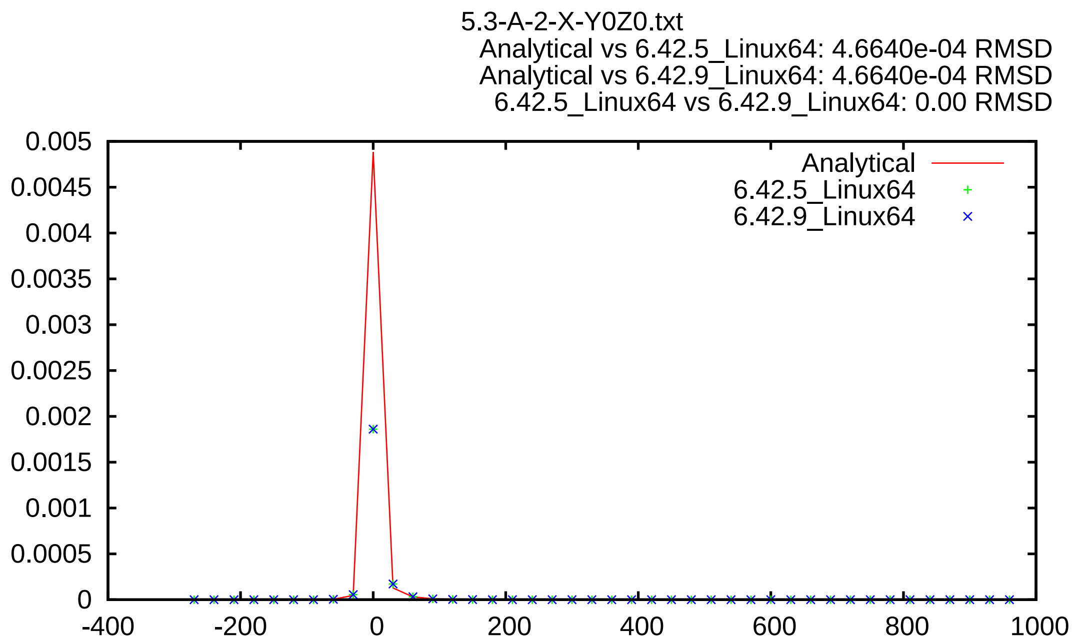

Figure 5.3.12: Concentration Profiles for 3D Transport along the Plume Centerline (Case A2).

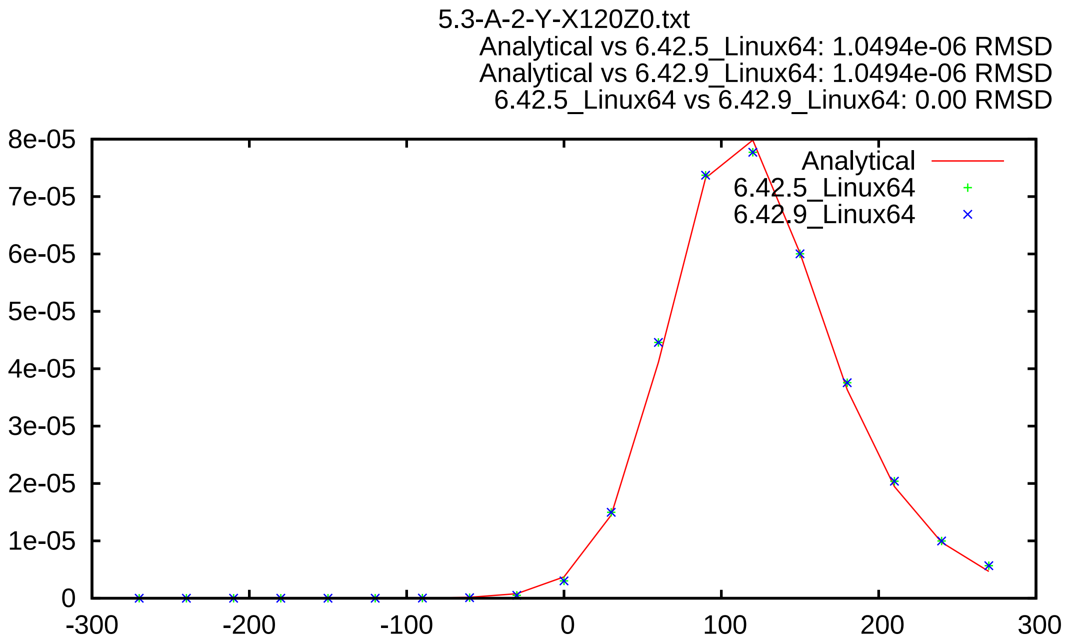

Figure 5.3.13: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 120 meters (Case A2).

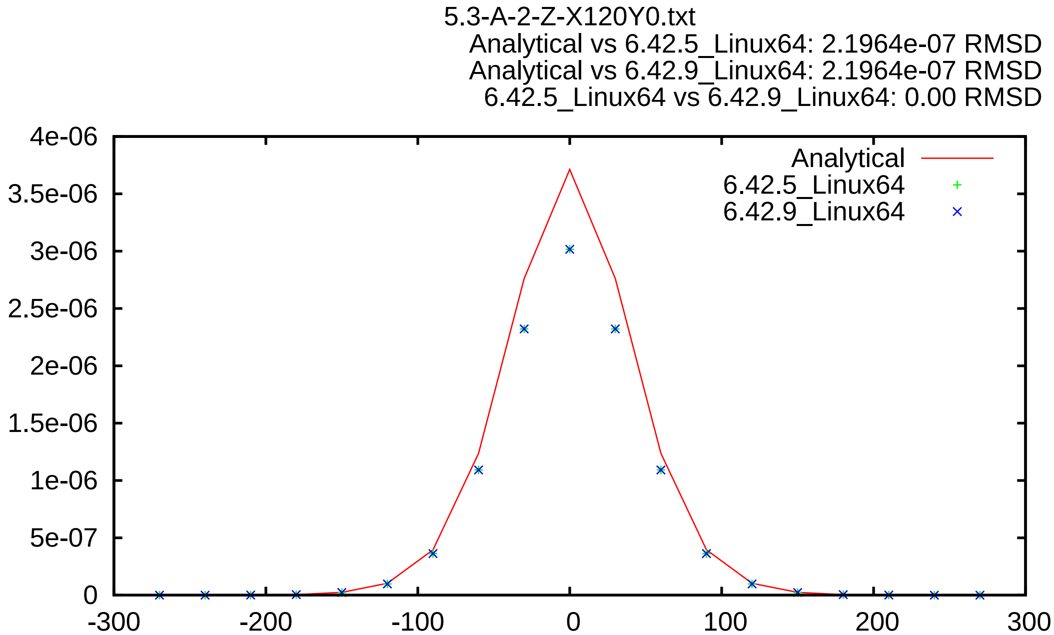

Figure 5.3.14: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 120 meters (Case A2)

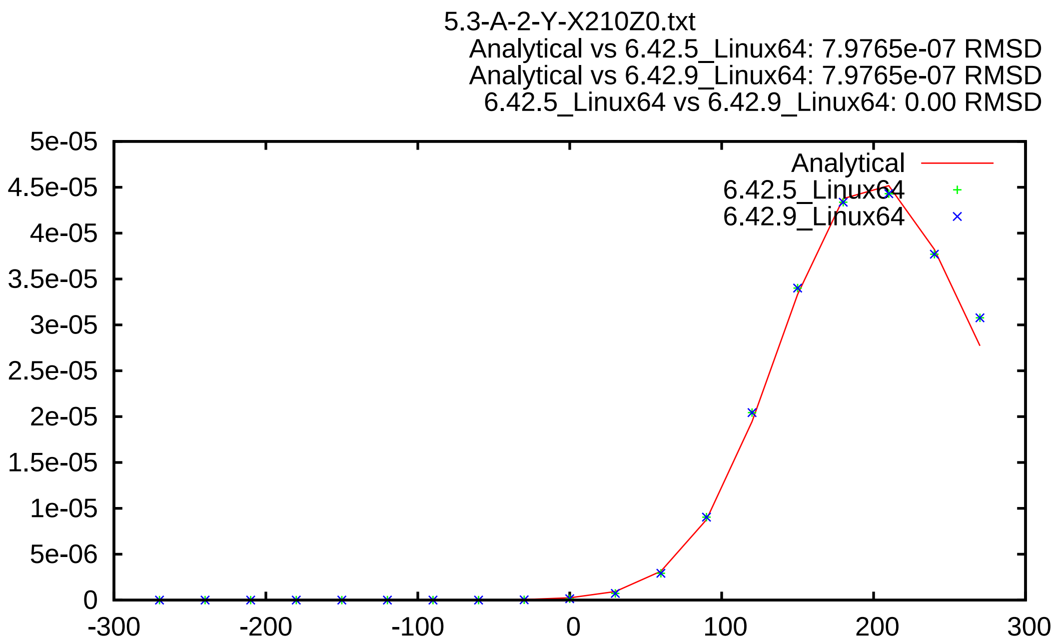

Figure 5.3.15: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 210 meters (Case A2).

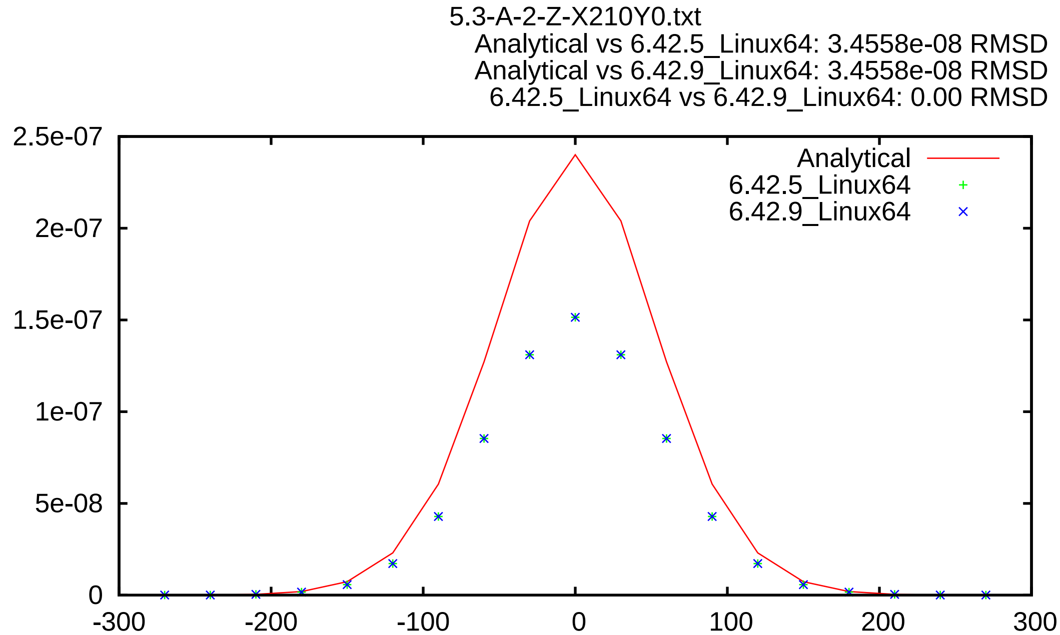

Figure 5.3.16: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 210 meters (Case A2)

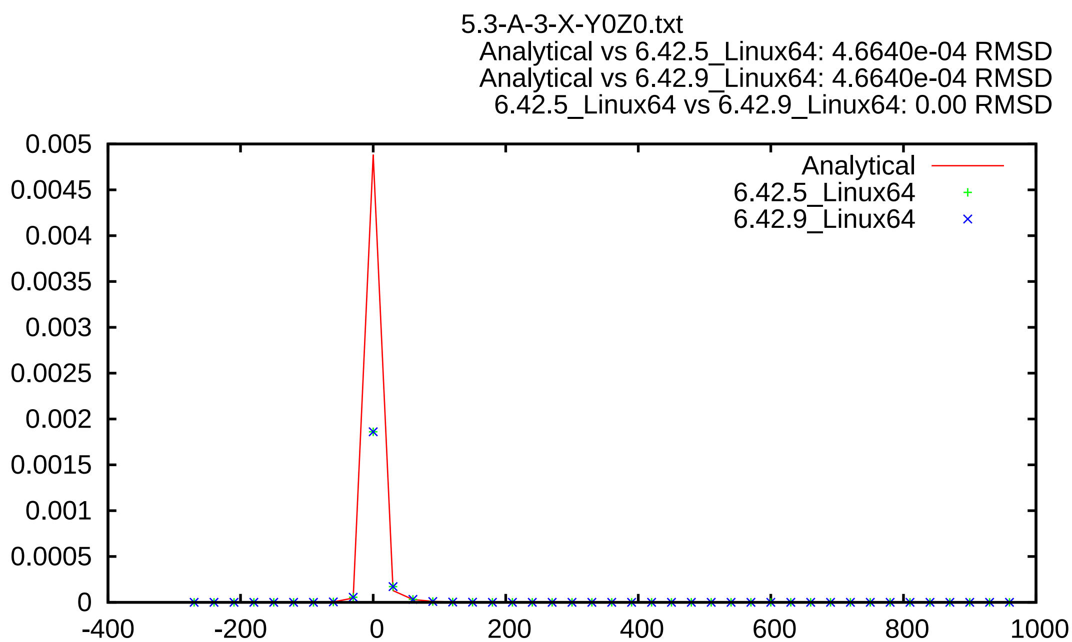

Figure 5.3.17: Concentration Profiles for 3D Transport along the Plume Centerline (Case A3).

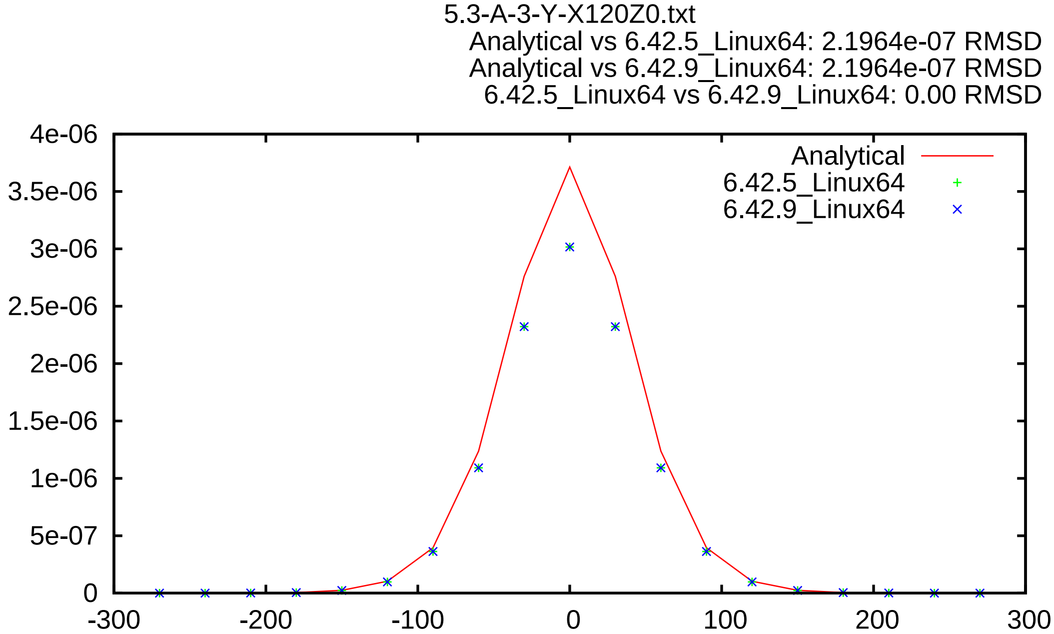

Figure 5.3.18: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 120 meters (Case A3).

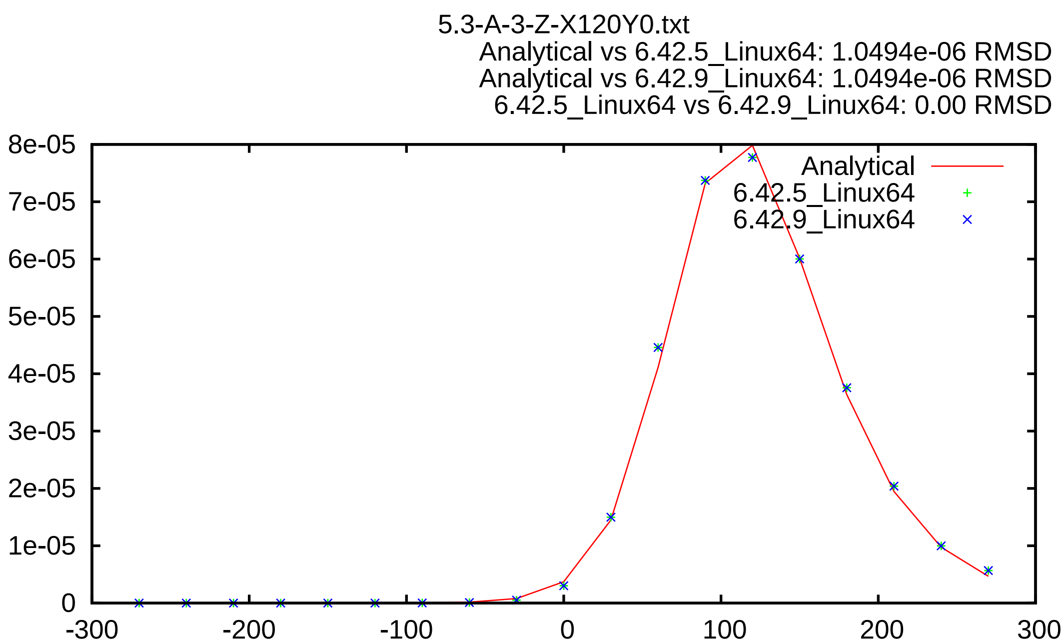

Figure 5.3.19: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 120 meters (Case A3).

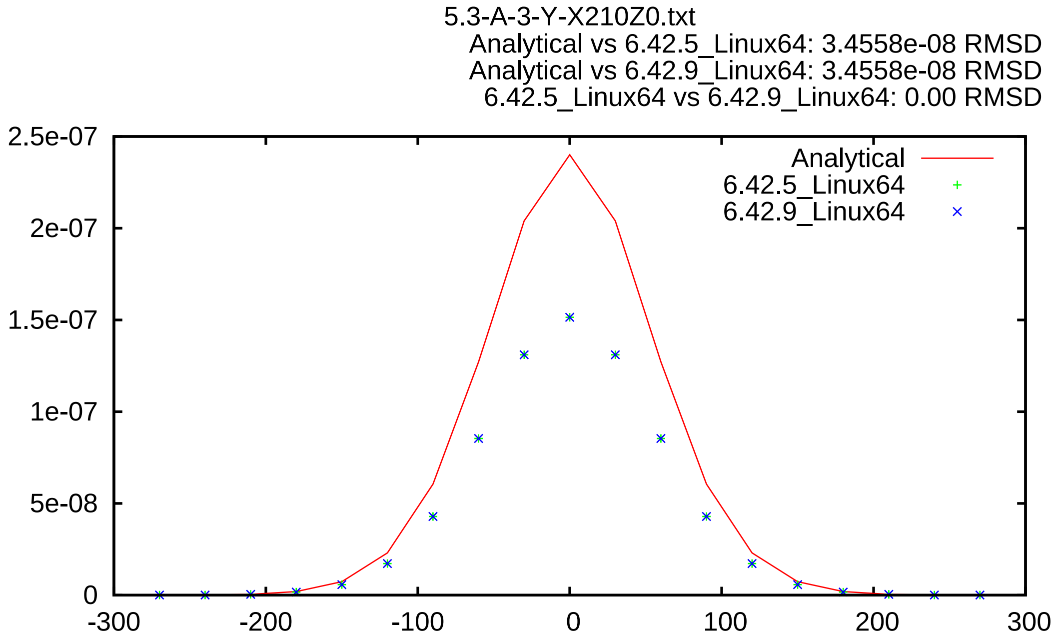

Figure 5.3.20: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 210 meters (Case A3).

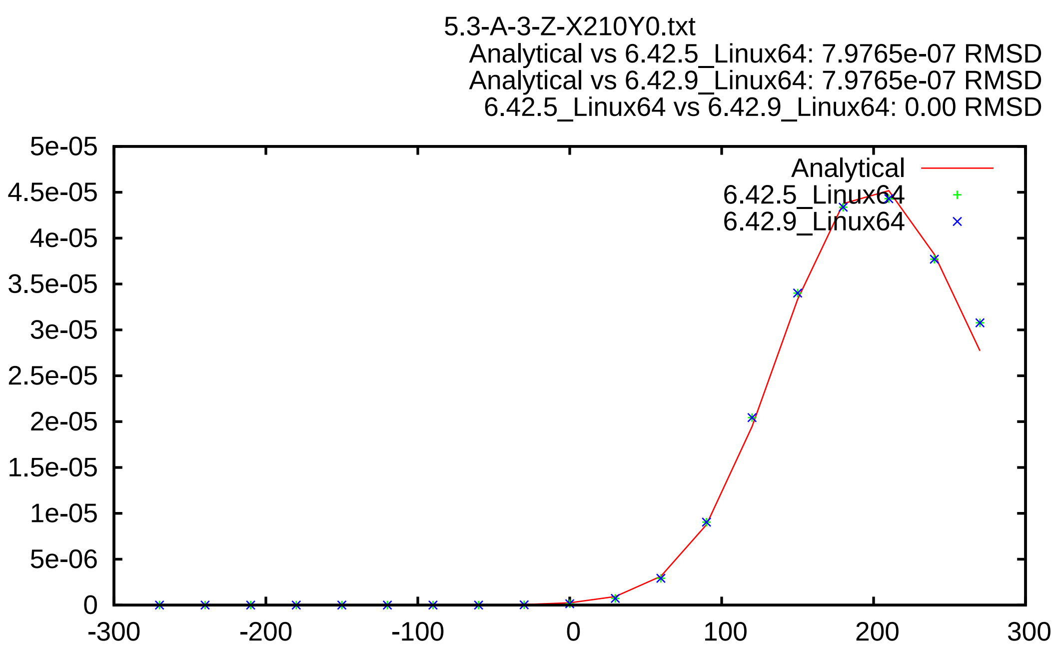

Figure 5.3.21: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 210 meters (Case A3).

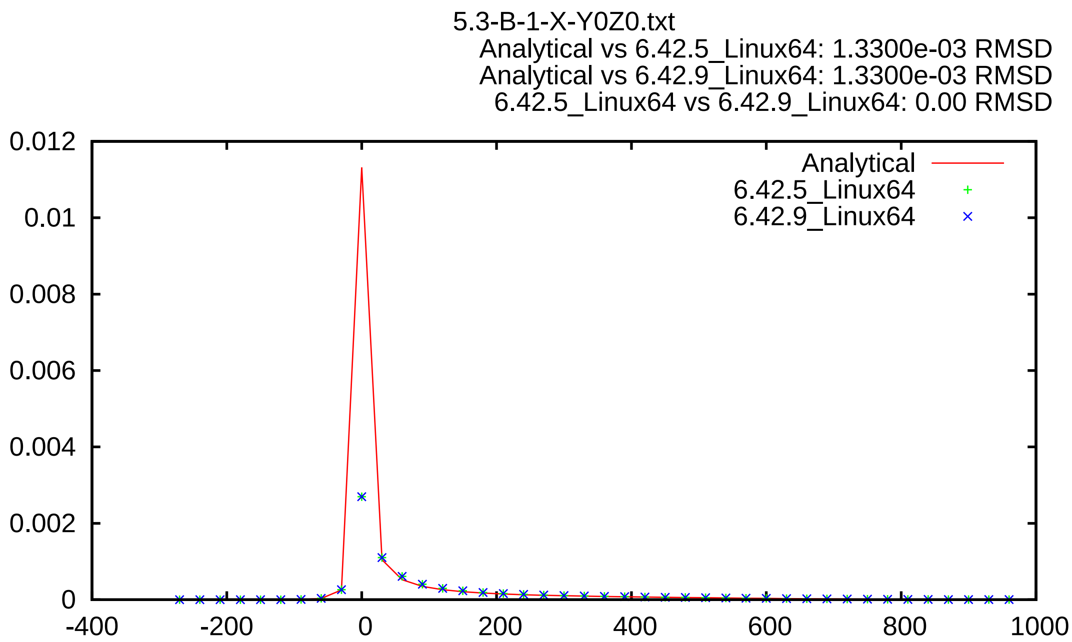

Figure 5.3.22: Concentration Profiles for 3D Transport along the Plume Centerline (Case B1).

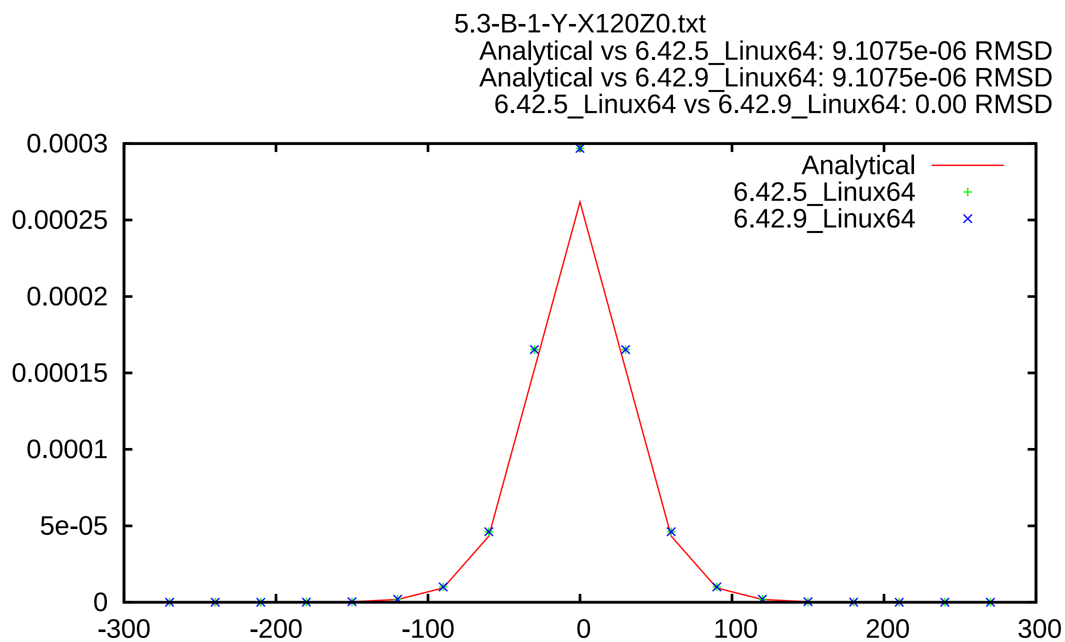

Figure 5.3.23: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 120 meters (Case B1).

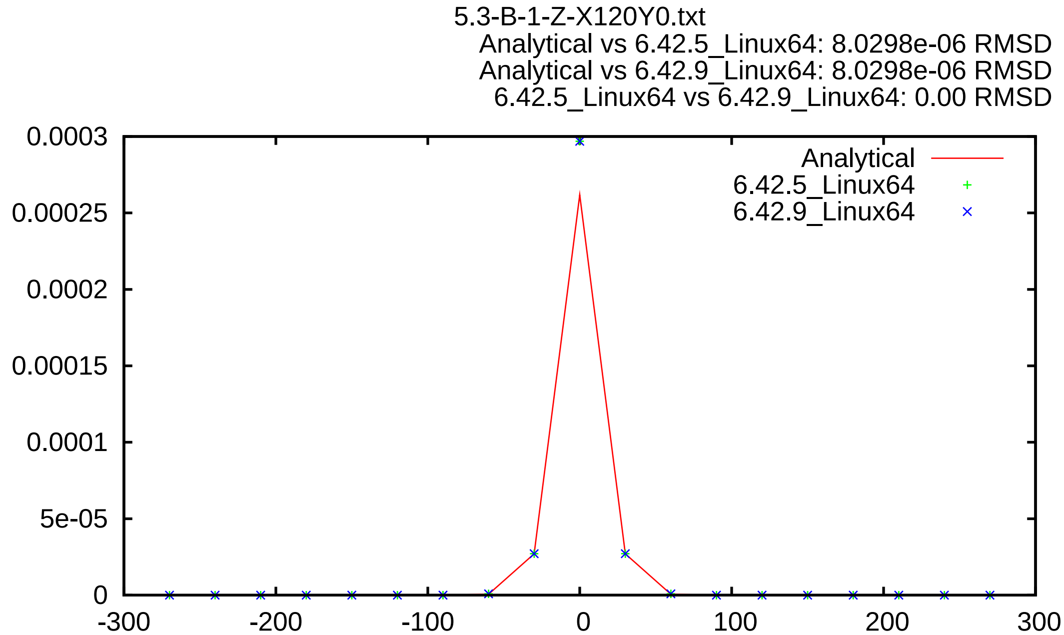

Figure 5.3.24: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 120 meters (Case B1)

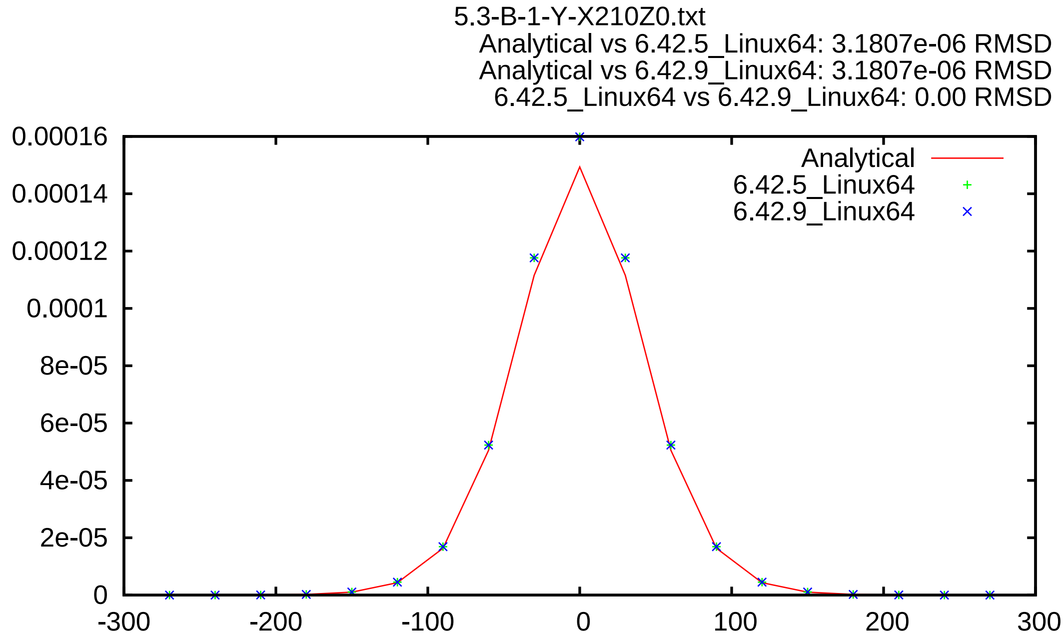

Figure 5.3.25: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 210 meters (Case B1).

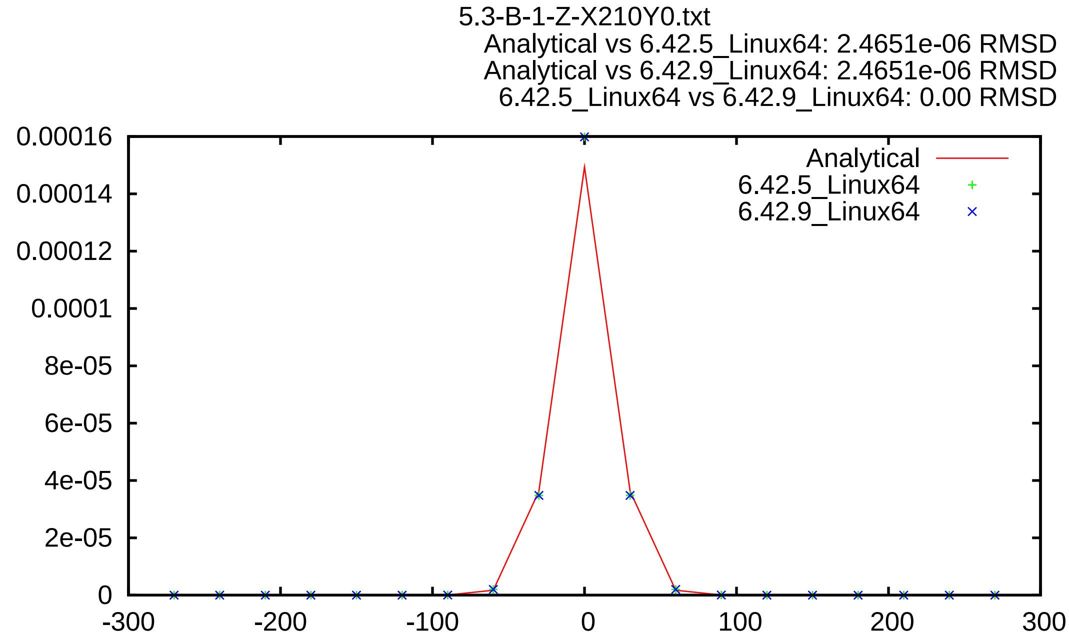

Figure 5.3.26: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 210 meters (Case B1)

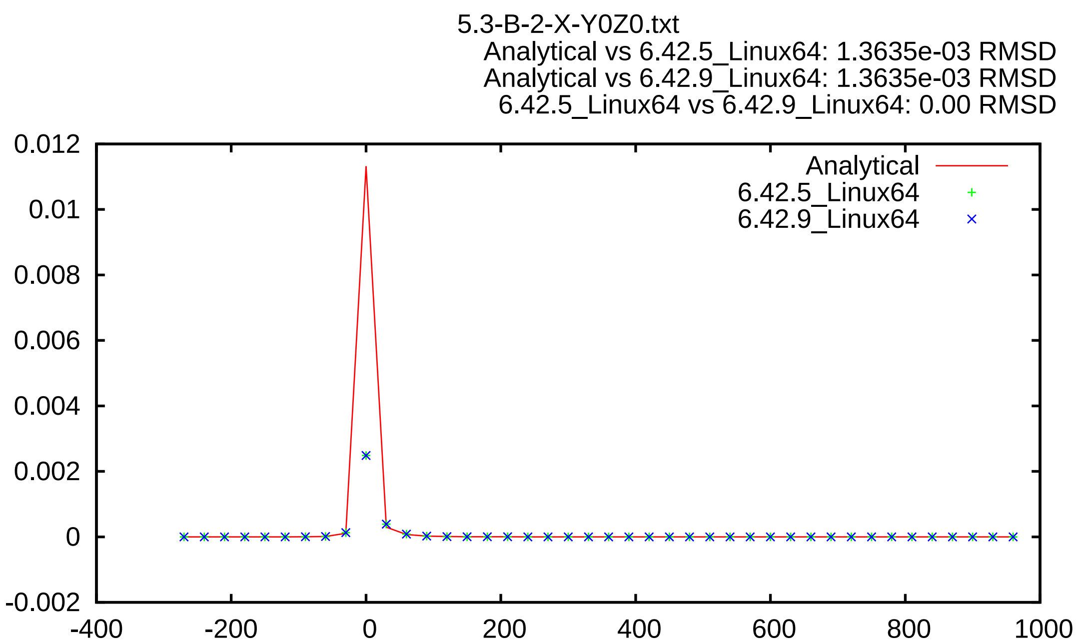

Figure 5.3.27: Concentration Profiles for 3D Transport along the Plume Centerline (Case B2).

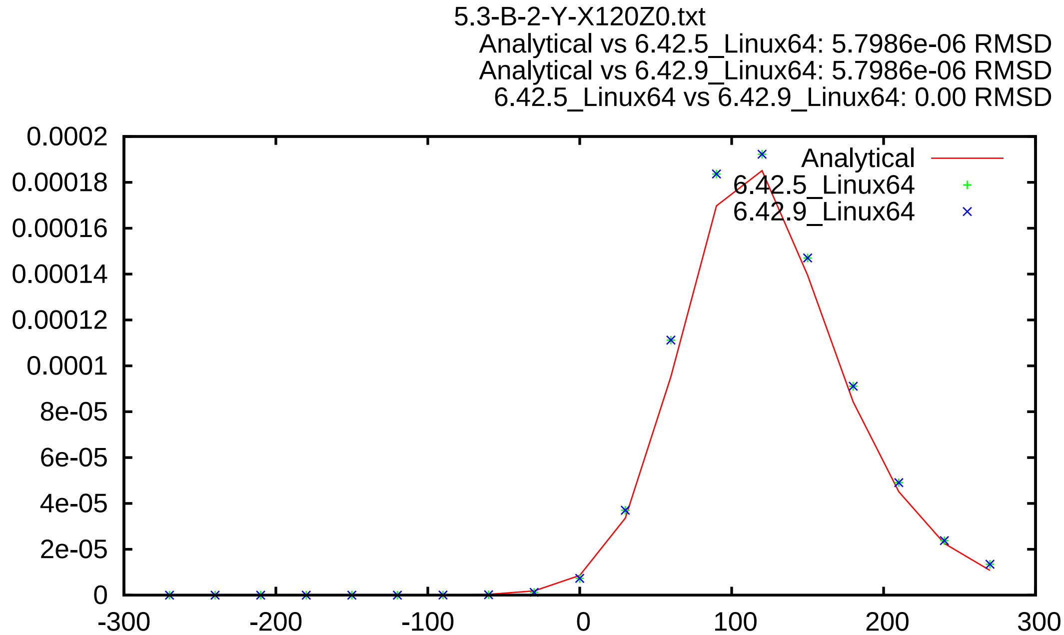

Figure 5.3.28: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 120 meters (Case B2).

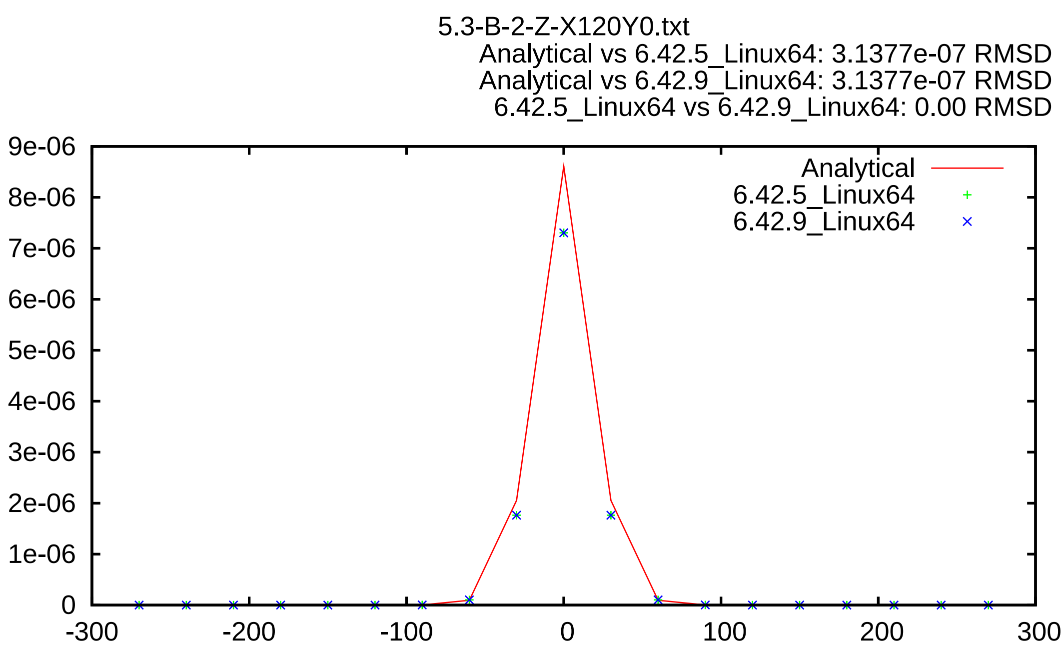

Figure 5.3.29: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 120 meters (Case B2).

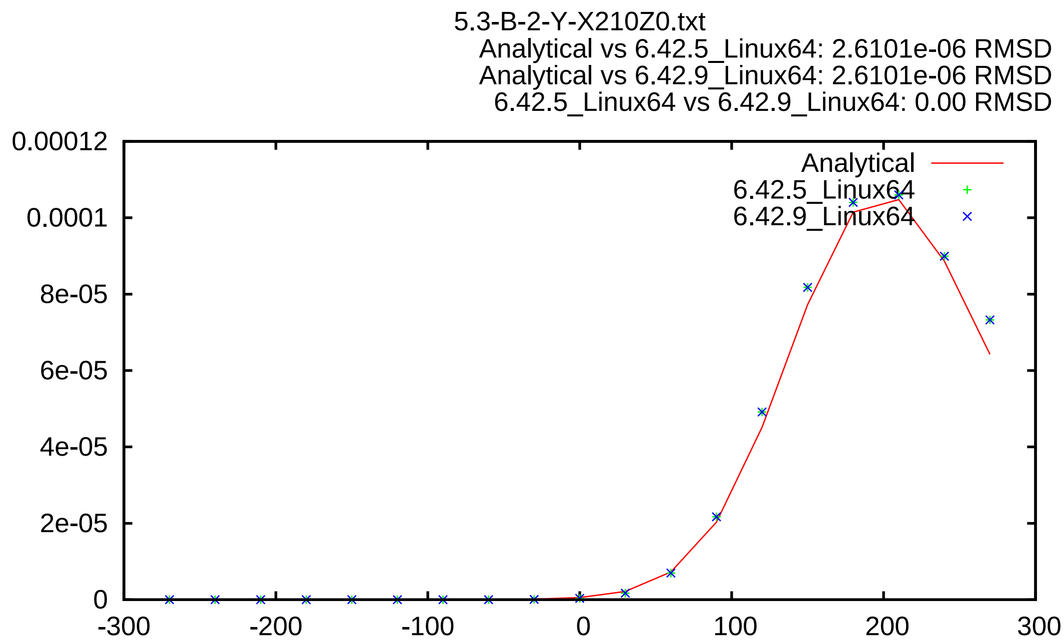

Figure 5.3.30: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 210 meters (Case B2).

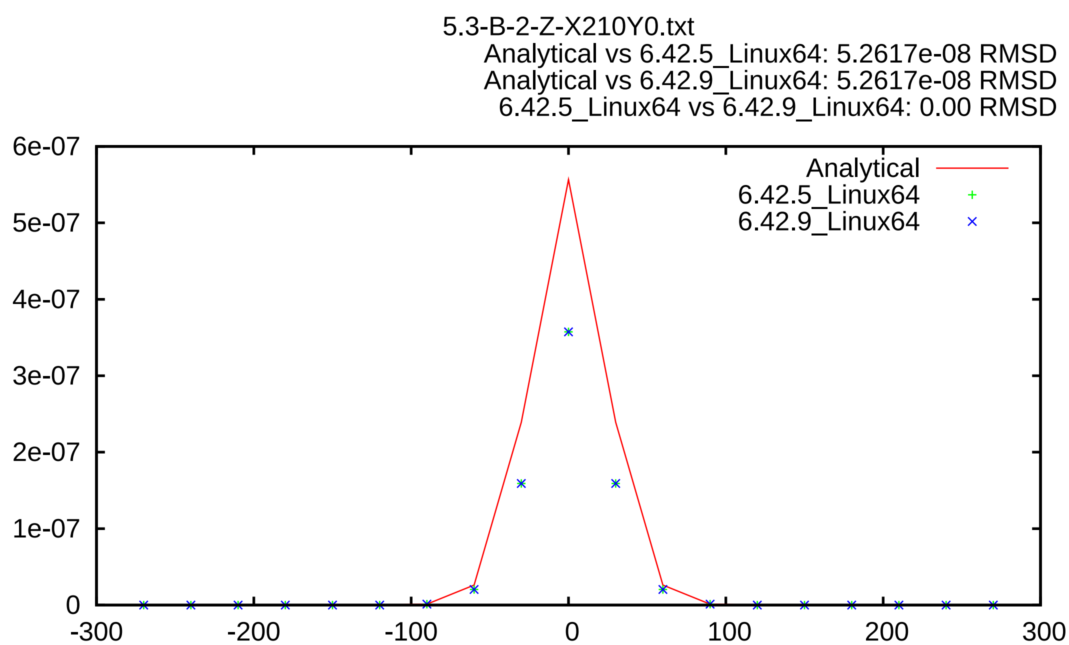

Figure 5.3.31: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 210 meters (Case B2).

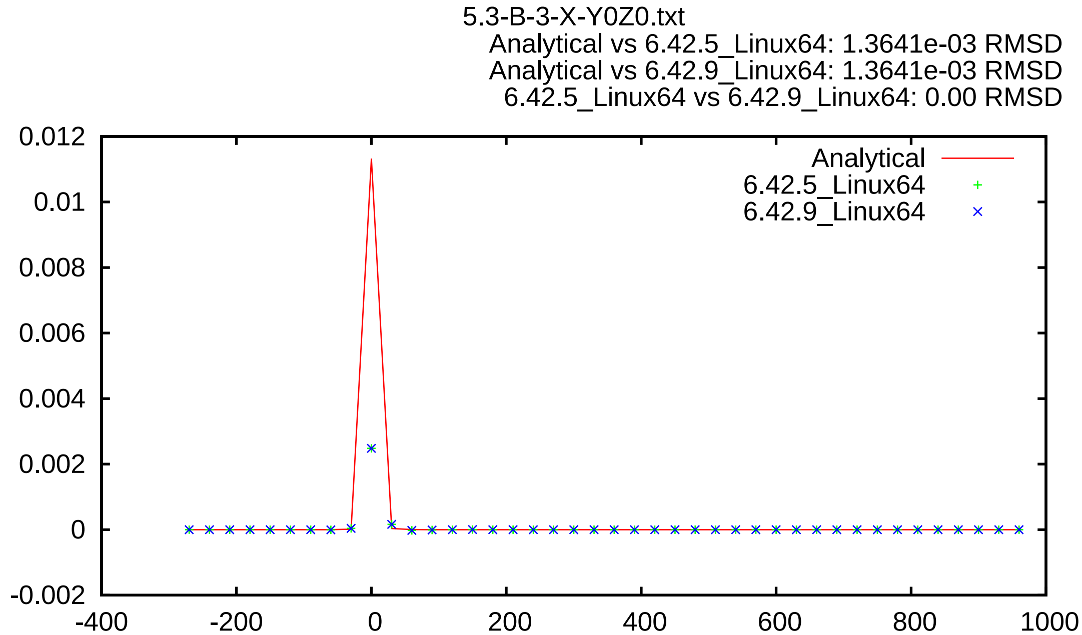

Figure 5.3.32: Concentration Profiles for 3D Transport along the Plume Centerline (Case B3).

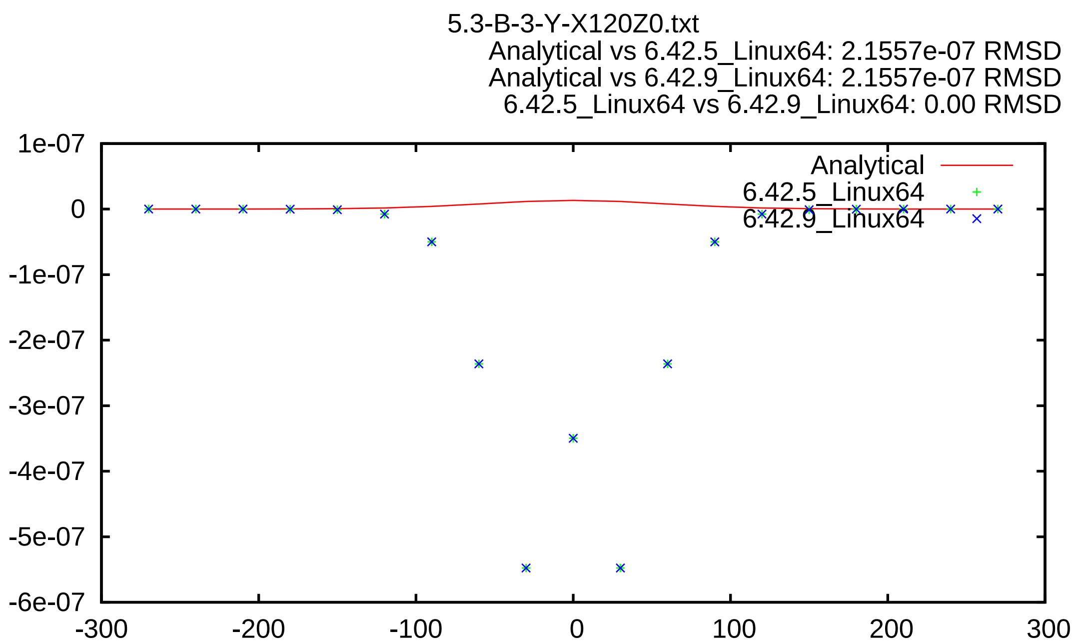

Figure 5.3.33: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 120 meters (Case B3).

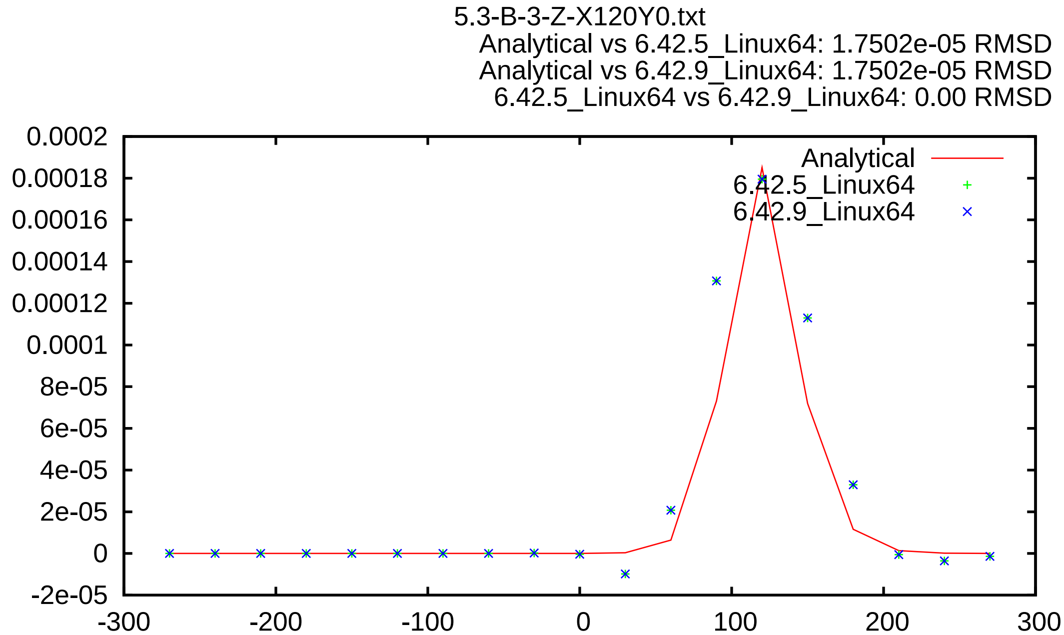

Figure 5.3.34: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 120 meters (Case B3).

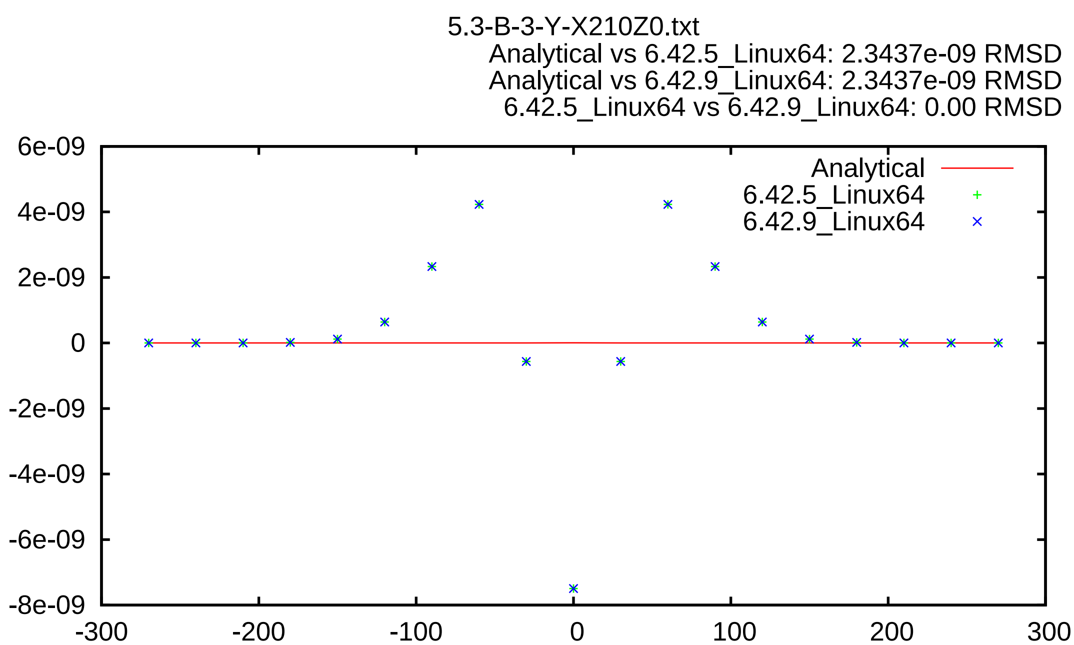

Figure 5.3.35: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 210 meters (Case B3).

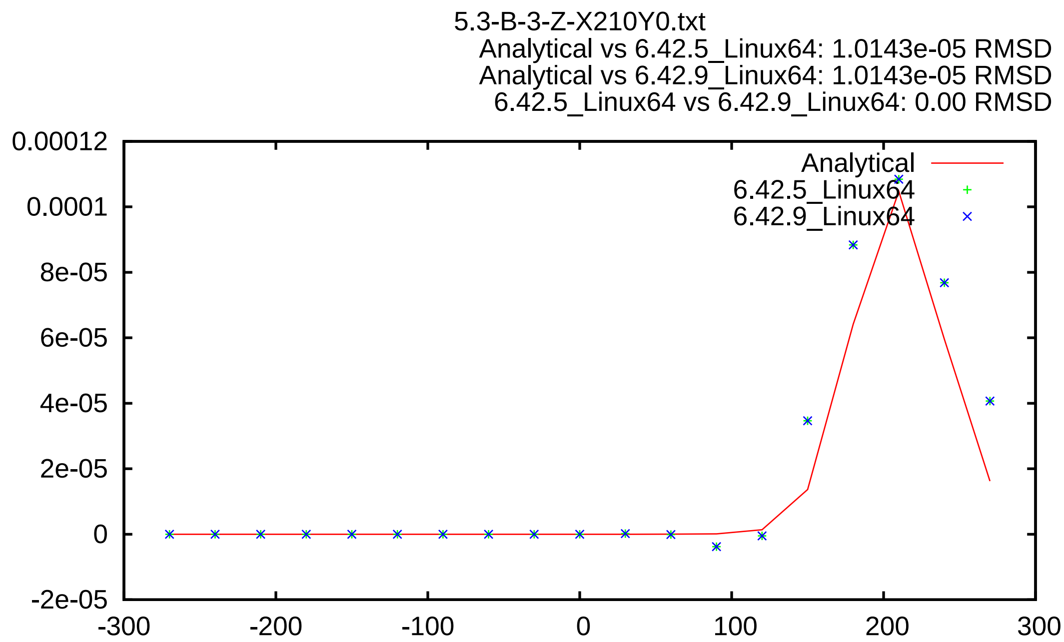

Figure 5.3.36: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 210 meters (Case B3).

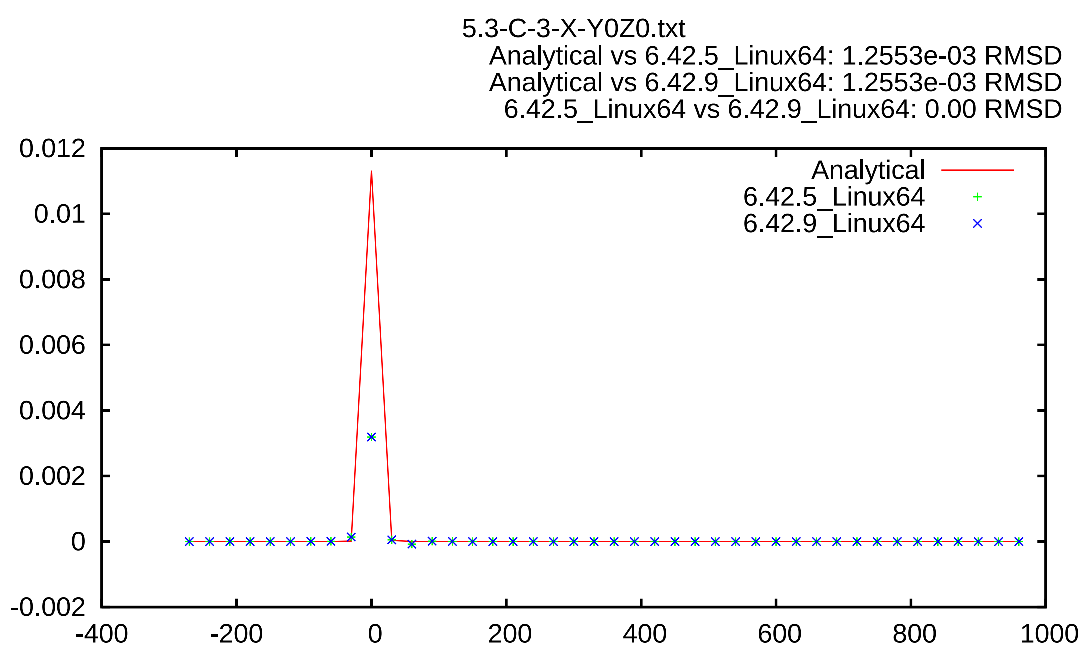

Figure 5.3.37: Concentration Profiles for 3D Transport along the Plume Centerline (Case C3).

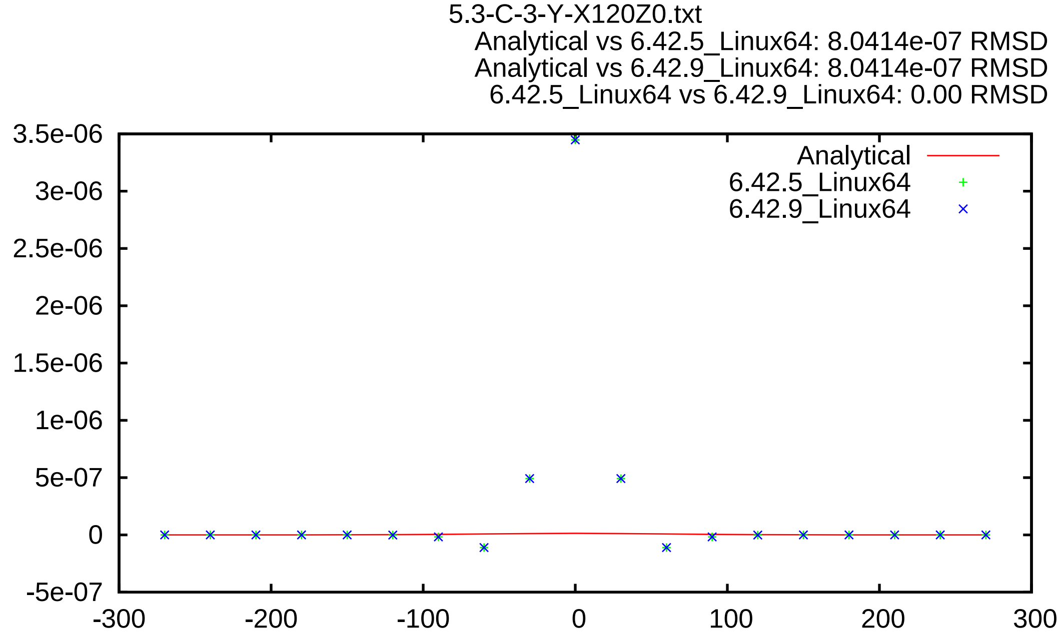

Figure 5.3.38: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 120 meters (Case C3).

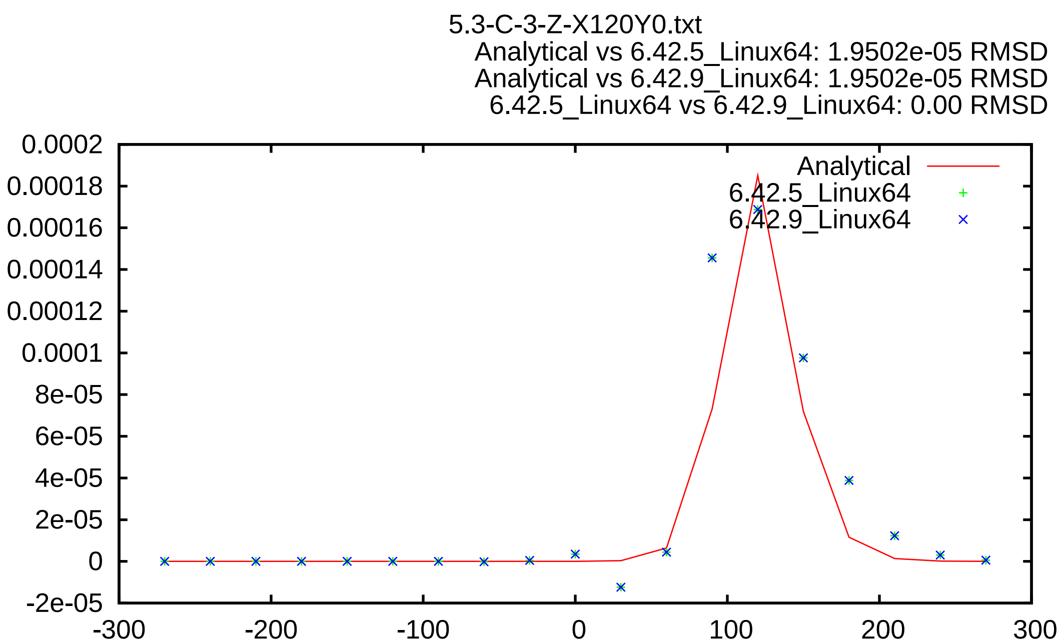

Figure 5.3.39: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 120 meters (Case C3).

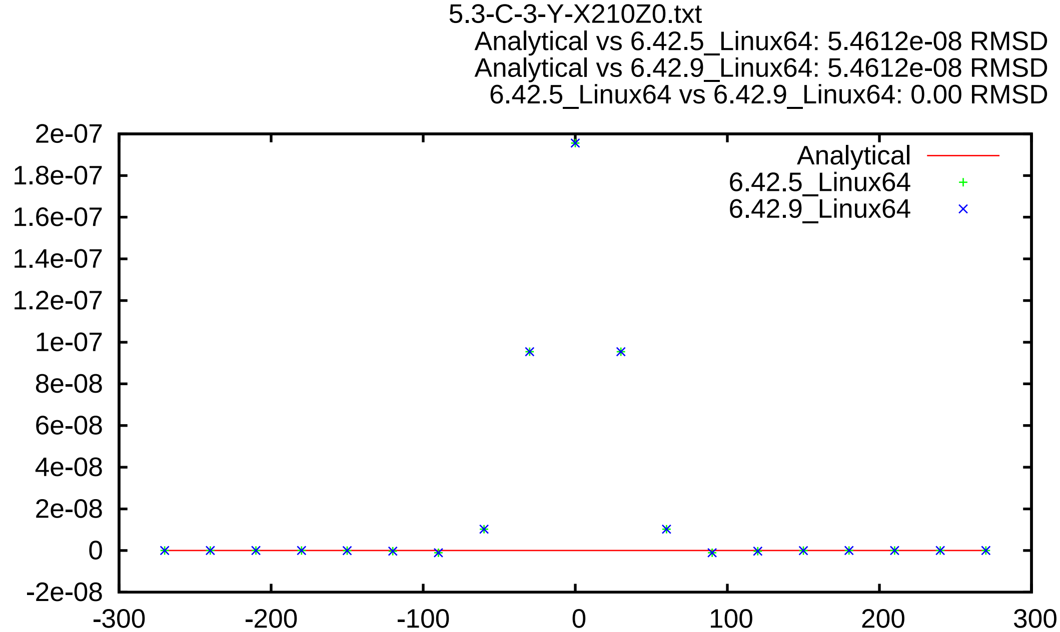

Figure 5.3.40: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in y direction, located at x = 210 meters (Case C3).

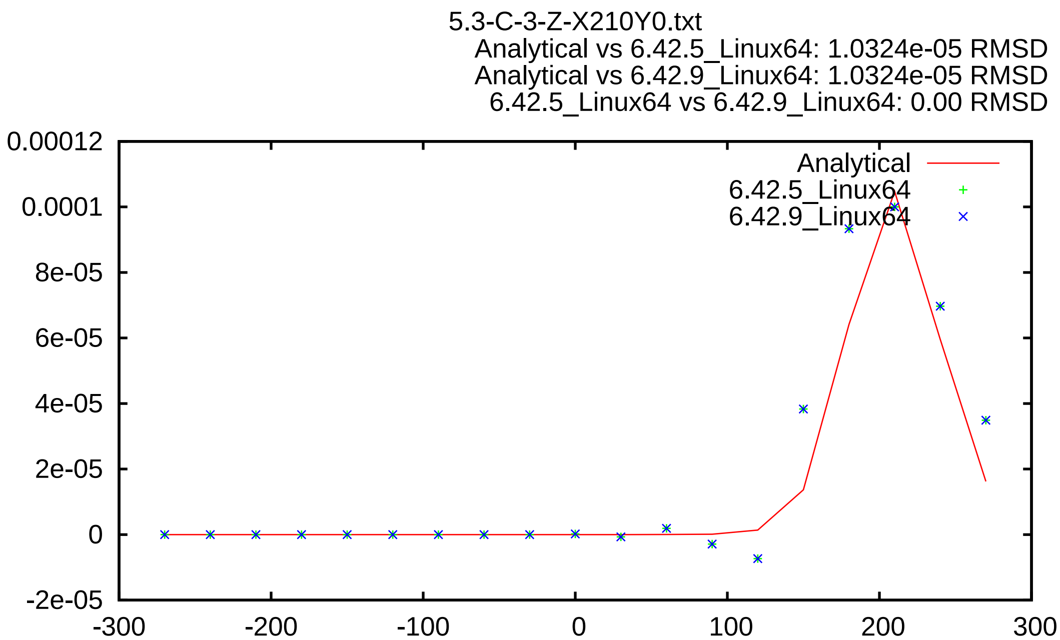

Figure 5.3.41: Concentration Profiles for 3D Transport Transverse to the Plume Centerline in z direction, located at x = 210 meters (Case C3).

5.4 Slit and Engineered Trench Radon Air Pathway Transport Simulation

One-dimensional radon transport models were developed using COMSOL and PORFLOW numerical simulators to compute Rn-222 concentration profiles and fluxes from the Silt and Engineered Trenches over a 1000-year period. The Slit and Engineered Trenches are below grade earthen disposal units, are very similar in design, and foot print. The first time period evaluated, which covers the operational and institutional control periods, was extended from 125 to 1000 years for this verification study. The second time period, which covers the post-closure compliance period (125 to 1125 years), was not modeled.

The potential parent radionuclides that can contribute to the formation of Rn-222 are shown in Figure 5.4.1. The diagram illustrates the decay chains that lead to the creation of Rn-222 and the half-lives for each member of the chain. Because the half-life of U-238 is extremely long (4.5 billion years), members of the decay chain above U-238 can be ignored as potential contributors to the formation of Rn-222 during the time of interest. The Th-230 decay chain (Th-230 $\rightarrow$ Ra-226 $\rightarrow$ Rn-222), which includes three radionuclides, was chosen as the verification candidate.

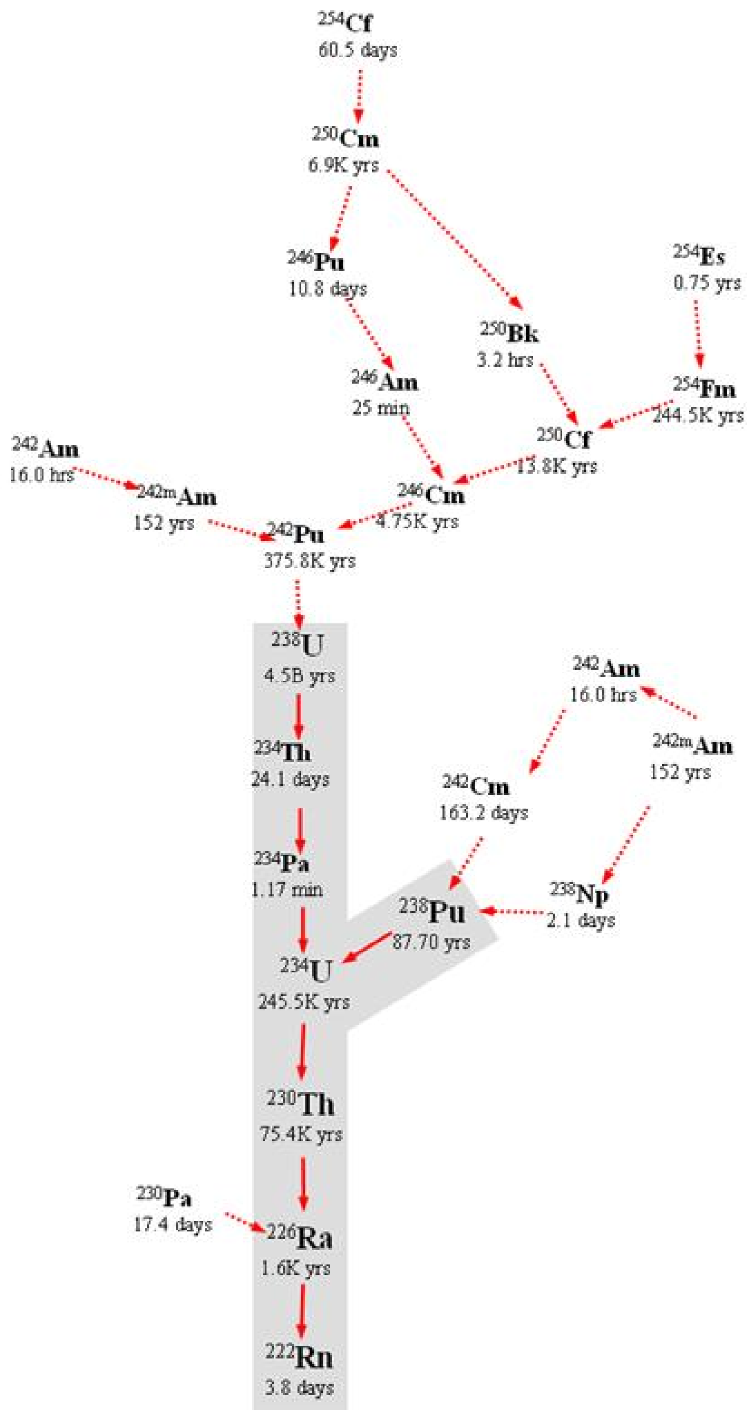

Figure 5.4.1: Radioactive Decay Chains Leading to Rn-222.

In the current formulation of the radon air pathway transport model, the following assumptions are utilized:

- Advection for all species is set to zero
- No absorption of species
- No partitioning of radon between gas and liquid phases. Radon is always in the gas phase.
- Molecular diffusion of radon gas only
- Material porosity specified to represent air-filled porosity
- No flux boundary condition specified below the lower waste zone for all species
- Zero concentration boundary condition for radon at the ground surface to maximize flux of radon at the land surface. No flux boundary condition for the remaining species at the land surface.
- The initial activity of Th-230 is set to 0.125 Ci in each of the lower and upper waste zones.

Incorporating the assumptions above and transforming from concentration to activity, the one-dimensional advection-diffusion equation for each species becomes:

$$\frac{\partial \alpha_a}{\partial t} = -\lambda_a \alpha_a \tag{5.4.1}$$

$$\frac{\partial \alpha_b}{\partial t} = \lambda_b \alpha_a - \lambda_b \alpha_b \tag{5.4.2}$$

$$\frac{\partial \alpha_c}{\partial t} = D'_{xx} \frac{\partial^2 \alpha_c}{\partial x^2} + \lambda_c \alpha_b - \lambda_c \alpha_c \tag{5.4.3}$$

$$D'_{xx} = \theta_e \tau D_m \tag{5.4.4}$$

where a = Th-230, b = Ra-226, and c = Rn-222, α is the activity of the radionuclide, and λ is the half-life of the radionuclide.

The COMSOL and PORFLOW material regions are defined as follows: (1) Lower Waste Zone from 0 to 4.16 m; (2) Upper Waste Zone from 4.16 to 4.92 m; (3) Clean Soil from 4.92 to 6.13 m; and (4) Closure Cap from 6.13 to 8.03 m. The PORFLOW 1D mesh consists of 3 nodes in the x-direction and 55 nodes in the y-direction. The COMSOL 1D finite-element mesh contains 273 nodes and 272 elements. The PORFLOW input commands; geometry specification, zone identification and material specification are shown in Listing 75.

Figures 5.4.2 and 5.4.3 show a comparison of COMSOL and PORFLOW concentration profiles of Th-230 and Ra-226 at 1000 years, respectively. The agreement is excellent. At 1000 years, the activity of Th-230 is at 99.1% of the original activity. As seen in Figure 5.4.3, the activity of Ra-226 is increasing from 100 to 500 to 1000 years. The two species are immobile within each waste zone as expected.

The Rn-222 concentration profile at 1000 years is shown in Figure 5.4.4 as computed by COMSOL and PORFLOW. The short-lived radon is in secular equilibrium with its long-lived parent radium.

The radon peak is slightly lower due to molecular diffusion to the land surface over the past 1000 years. The agreement between COMSOL and PORFLOW is excellent.

Figure 5.4.5 represents the radon dispersive flux at the land surface in pCi/m^2/sec over a 1000-year period. The radon flux continues to monotonically grow throughout time because of the rising activity of the radium parent. The agreement is excellent between the COMSOL and PORFLOW numerical results.

There are no differences between PORFLOW versions. The differences in the COMSOL and PORFLOW solutions are minimal. We do not have an analytical problem that tests these features at this time, so we are dependent on code-to-code comparison.

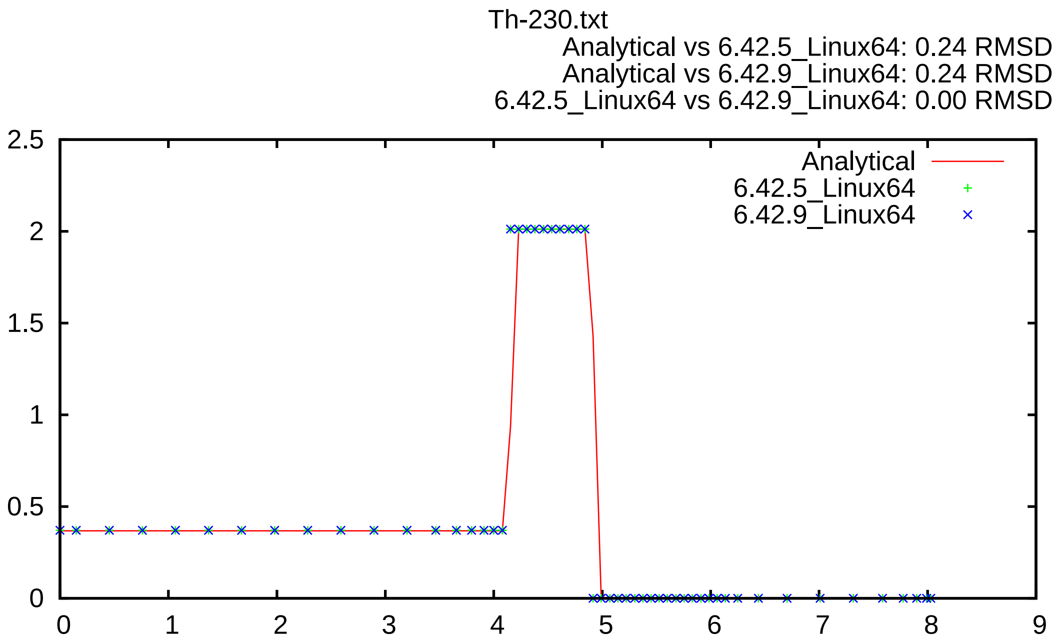

Figure 5.4.2: Comparison of COMSOL and PORFLOW Th-230 Concentration Profiles at 1000 years.

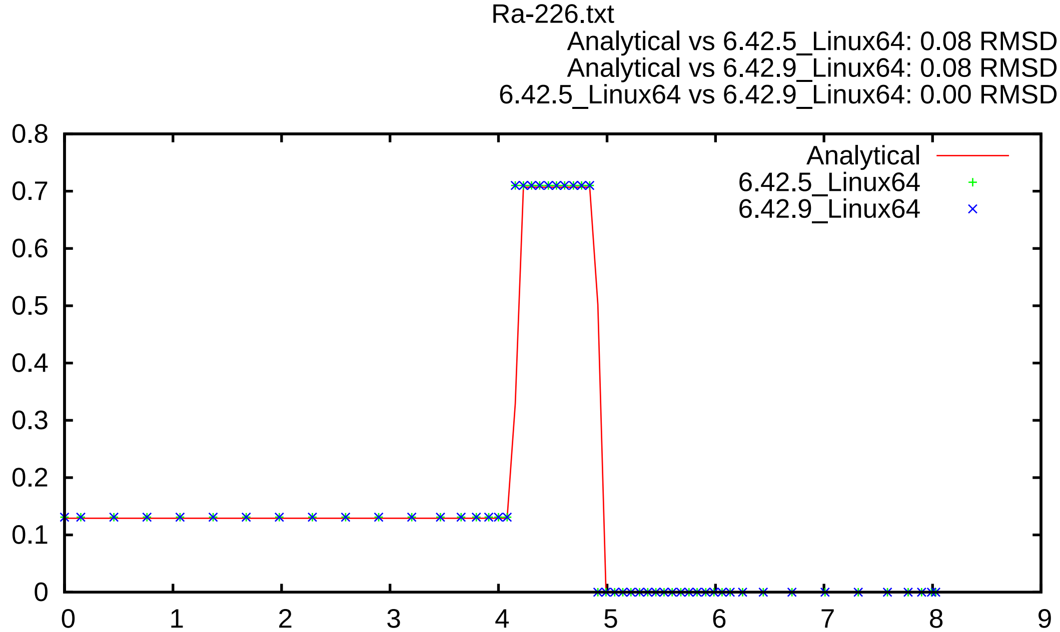

Figure 5.4.3: Comparison of COMSOL and PORFLOW Ra-226 Concentration Profiles.

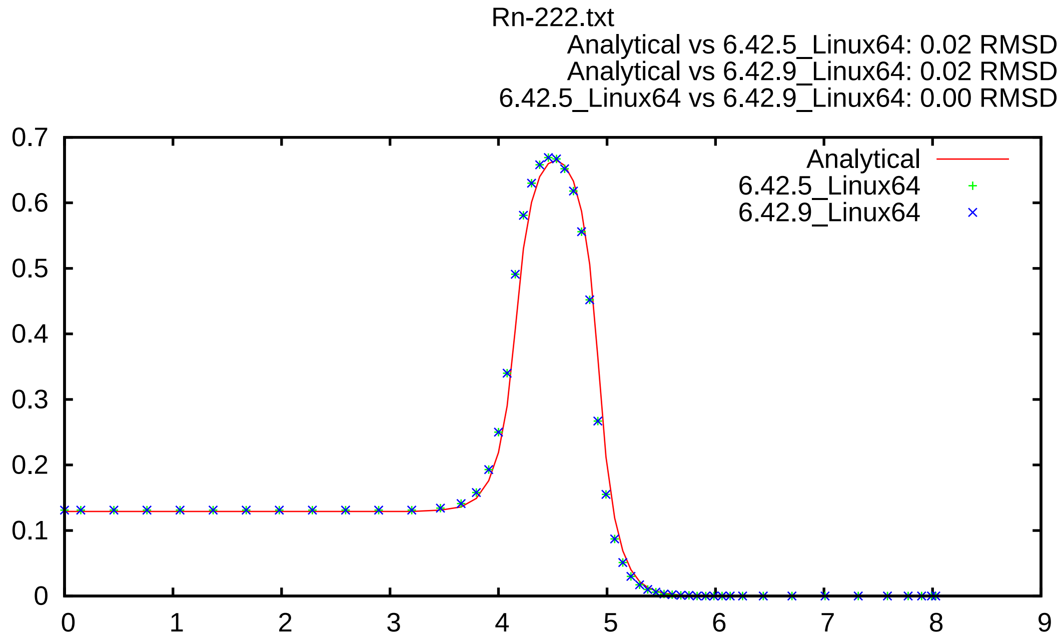

Figure 5.4.4: Comparison of COMSOL and PORFLOW Rn-222 Concentration Profiles at 1000 years.

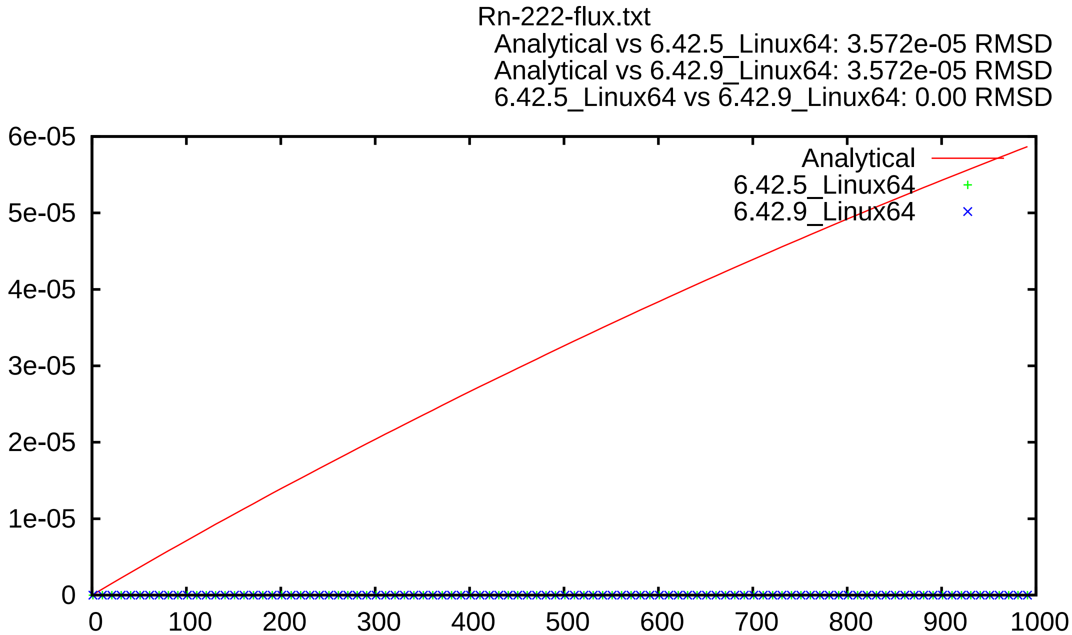

Figure 5.4.5: Comparison of COMSOL and PORFLOW Rn-222 Dispersive Flux at the Land Surface.

5.5 Impact of the PORFLOW retardation model on variably saturated solute transport.

The conventional definition of the retardation factor as used by the majority of the groundwater modeling community for a linear adsorption isotherm is shown in Equation (5.5.1) as

$$R = 1 + \frac{\rho_s(1-\phi)k_d}{\theta_e} = 1 + \frac{\rho_s(1-\phi)k_d}{S\phi} \tag{5.5.1}$$

The current conceptual model in PORFLOW for linear sorption assumes that the diffusion in the solid is negligible and that the contact between the fluid and solid is only through the wetted surface (advective or mobile phase fluid). The nonwetted surface in contact with air does not participate in sorption. Therefore, the retardation factor in PORFLOW is computed as

$$R = 1 + \frac{\rho_s(S_w-\theta_e)k_d}{\theta_e} = 1 + \frac{\rho_s(1-\phi)k_d}{\phi} \tag{5.5.2}$$

Equations (5.5.1) and (5.5.2) are identical under saturated conditions. For variably saturated transport, Equation (5.5.2) always computes a smaller retardation factor than Equation (5.5.1). The impact is less loading to the solid, higher solute concentrations and higher retarded phasic velocities. Obviously, the further conditions are away from saturation, the greater the impact on solute concentrations and transport travel times. While Equation (5.5.2) may be conservative in almost every case, it is non-standard and the results generated may not be expected. This form should be replaced by the conventional and accepted form of the retardation factor.

A one-dimensional solute transport simulation at a constant saturation and Darcy velocity of 50% and 4 meters per year, respectively, was executed in COMSOL and PORFLOW. The COMSOL finite-element grid consists of 240 elements and 241 nodes. The PORFLOW grid contains 201 nodes in the x-direction and 3 nodes in the y-direction. The extent of the mesh is 400 meters. The simulation time was 50 years using time steps of 0.01 year. The solute concentration profiles were written every 25 years.

Two species are tracked in the simulation. A decaying parent with a half-life of 25 years and a non-decaying stable daughter. Each species has a distribution coefficient of 0.5 and a longitudinal dispersivity of 4 meters. The material particle density is 2 with a porosity of 0.5. The bulk density is therefore equal to 1 (water-like soil). The retardation factors are computed as 3 and 2 using Equations (5.5.1) and (5.5.2), respectively. The corresponding retarded pore- or phasic- velocities are 5.333 and 8 meters per year, respectively.

The dispersive flux for each species is set to zero at the outflow boundary (+X). The inflow boundary condition at X is a unit concentration and zero concentration for the parent and daughter, respectively.

5.5.1 Override non-standard retardation factor using POWEr function

The figures (Figures 5.5.1 to 5.5.8) show a comparison between the COMSOL and PORFLOW parent and daughter solute concentration profiles at 25 and 50 years. The COMSOL variably saturated transport equation uses the standard form of the retardation factor. As the results show, PORFLOW produces higher solute concentrations than COMSOL. The peak in solute concentration for the daughter species has moved further down the soil column due to a higher retarded pore velocity.

The embedded construct for computing the retardation factor in PORFLOW can be overridden by use of the RETArdation keyword command with appropriate modifiers. The retardation factor was computed as a function of moisture content using the POWEr function

$$\begin{aligned}
R &= A(B + C)^D + E \\
A &= \rho_s(1 - \phi)k_d \\
B &= \theta_e \\
C &= 0 \\
D &= -1 \\
E &= 1
\end{aligned} \tag{5.5.3}$$

The input commands for this problem is given in Listing 76. The results from using the default equation (phi) are shown in Figures 5.5.1 to 5.5.4. Overriding this with the standard equation (wc) produces excellent agreement between PORFLOW and COMSOL, as shown in Figures 5.5.5 to 5.5.8. There are no differences between PORFLOW versions.

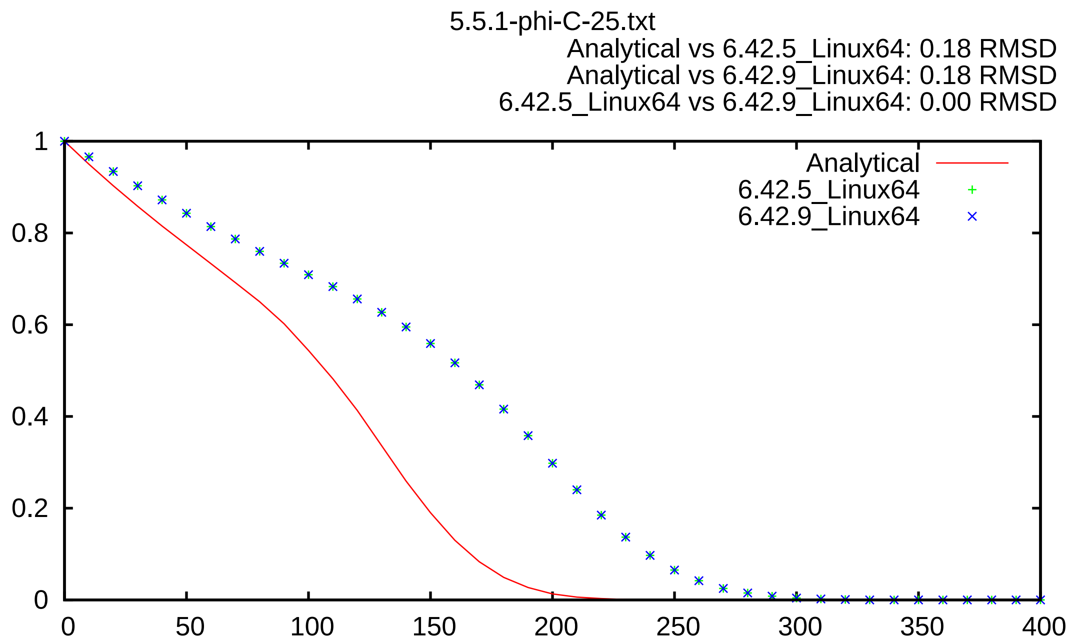

Figure 5.5.1: Conventional vs PORFLOW form of retardation, Parent 25 years.

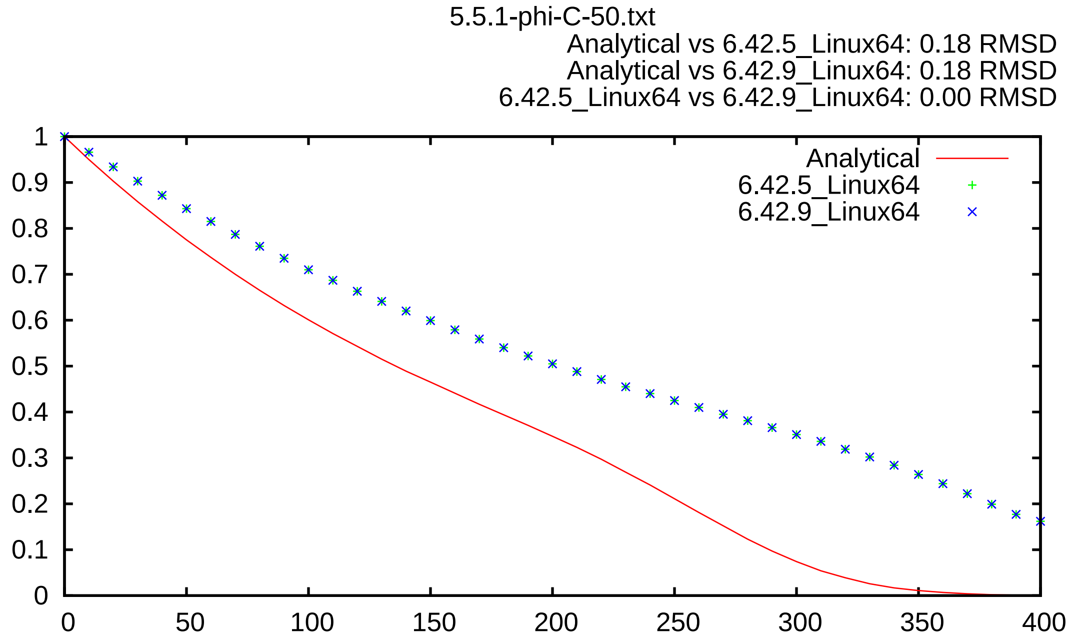

Figure 5.5.2: Conventional vs PORFLOW form of retardation, Parent 50 years.

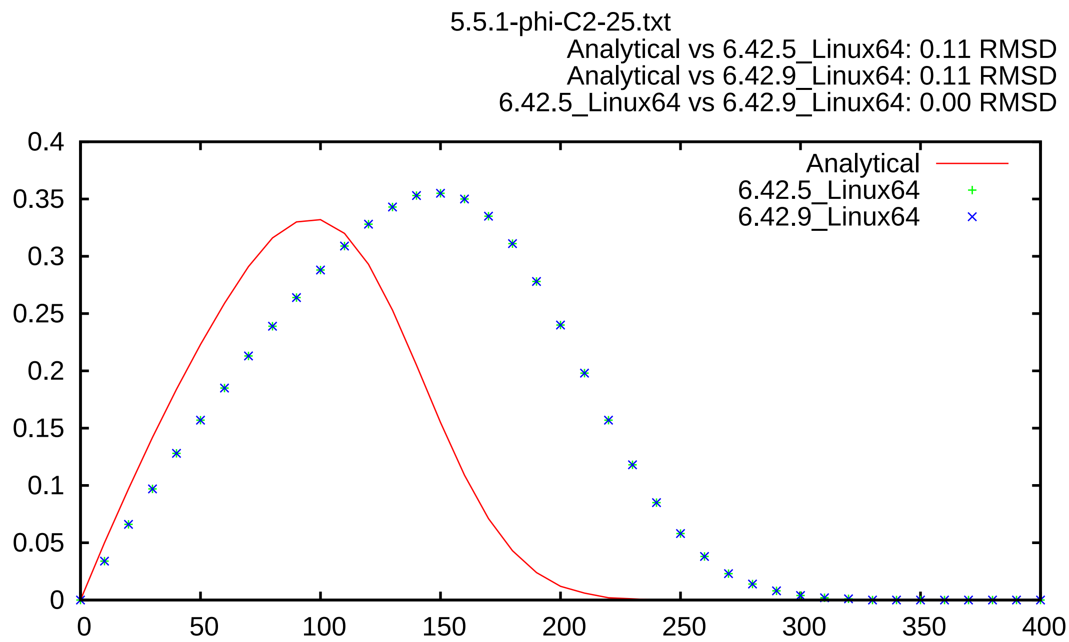

Figure 5.5.3: Conventional vs PORFLOW form of retardation, Daughter 25 years.

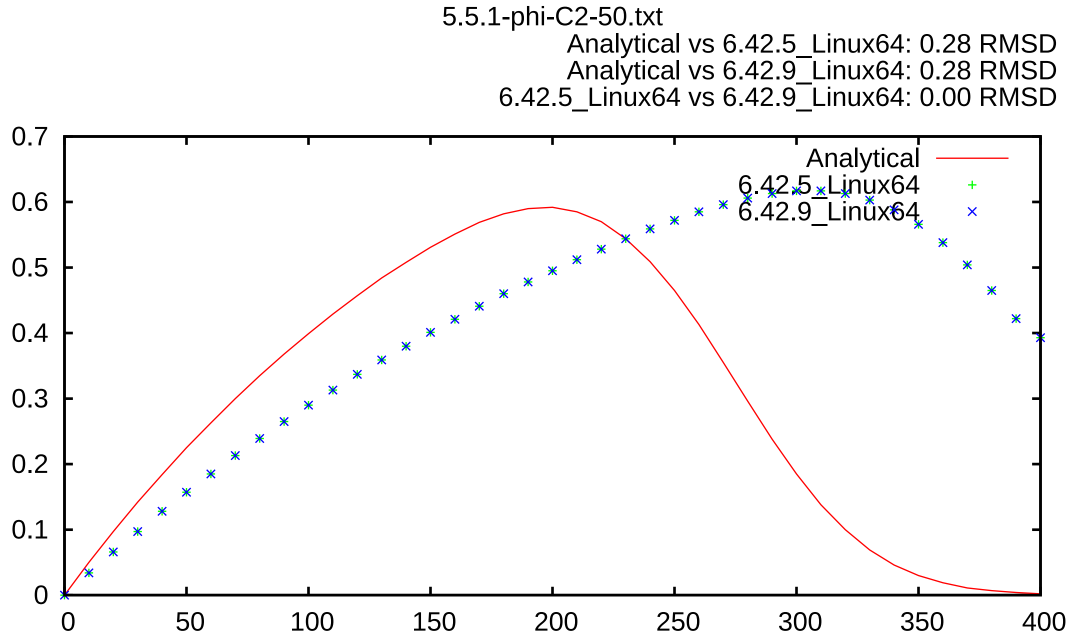

Figure 5.5.4: Conventional vs PORFLOW form of retardation, Daughter 50 years.

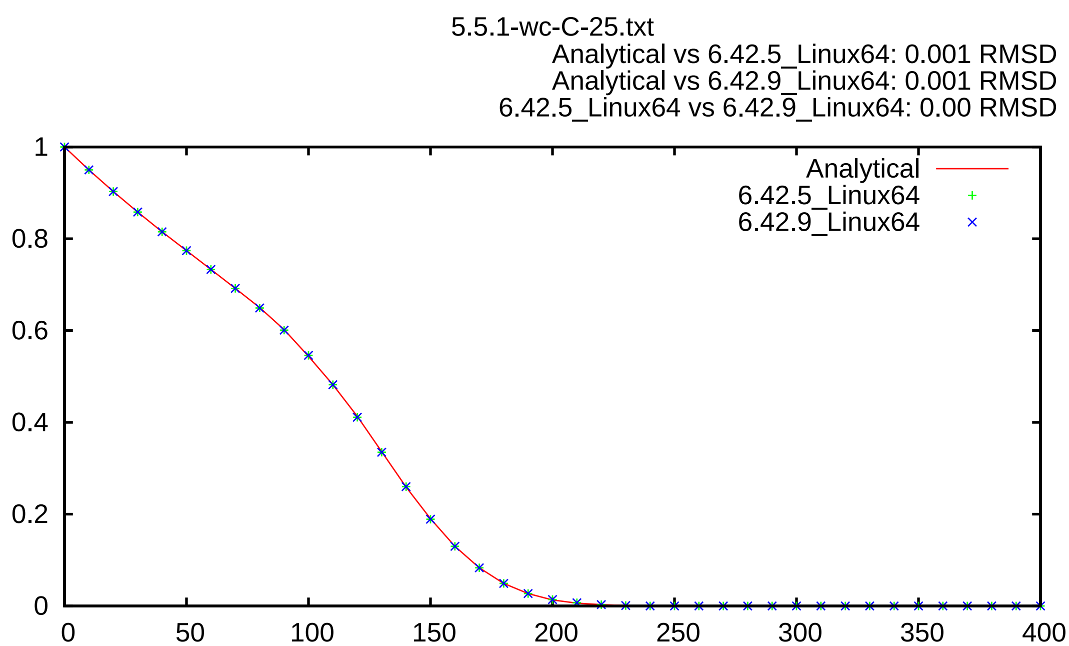

Figure 5.5.5: Parent, 25 years.

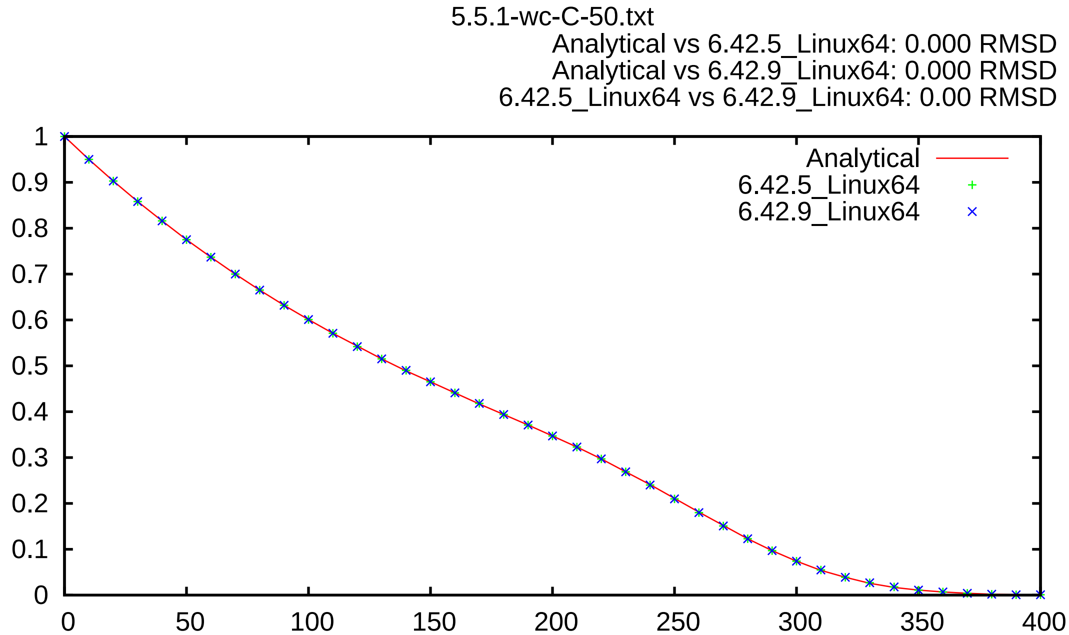

Figure 5.5.6: Parent, 50 years.

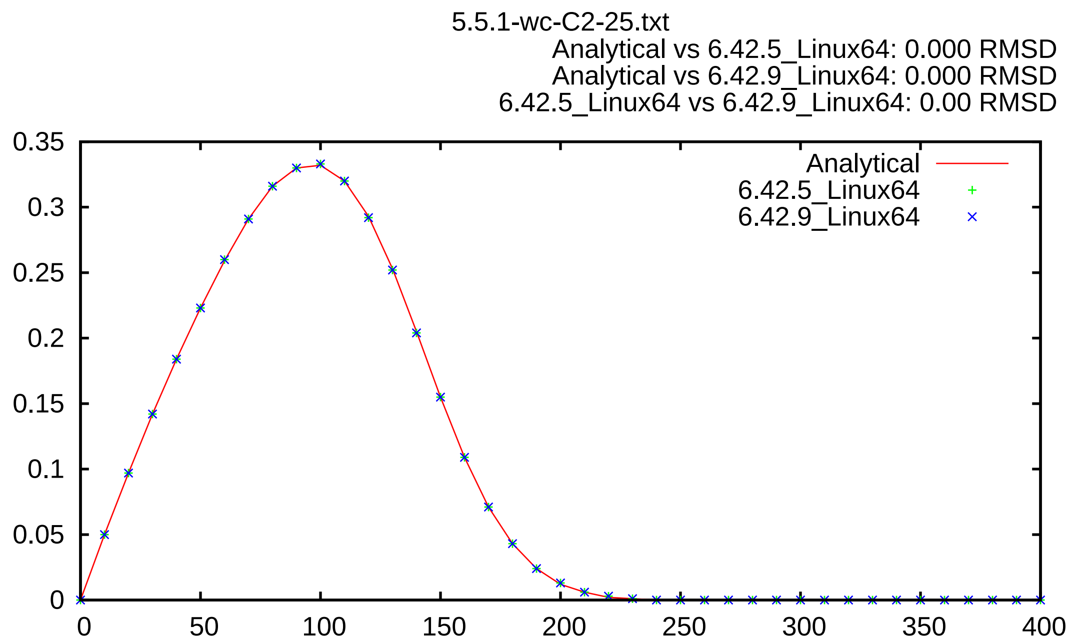

Figure 5.5.7: Daughter, 25 years.

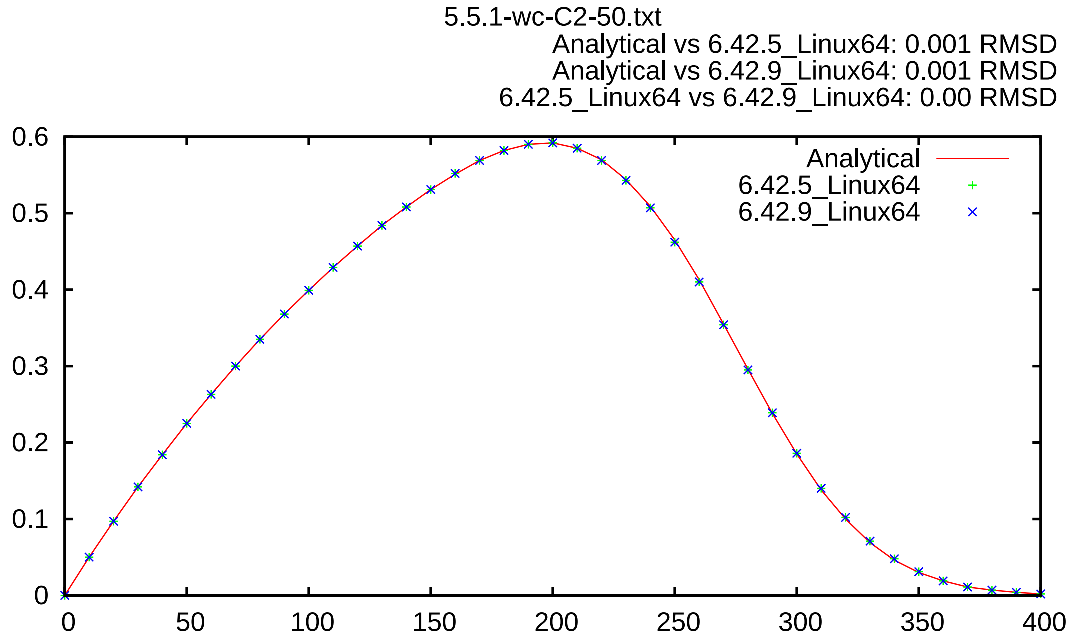

Figure 5.5.8: Daughter, 50 years.

5.5.2 Override non-standard retardation factor using PROP TOTA function and Kd

This problem tests the PROP TOTA command, which became available in PORFLOW v6.10.3, and is an alternative way to implement equation Equation (5.5.1).

Listing 77 shows the PORFLOW input file for this problem. Figures 5.5.9 to 5.5.12 show the results of using this command. The differences between PORFLOW versions are minimal.

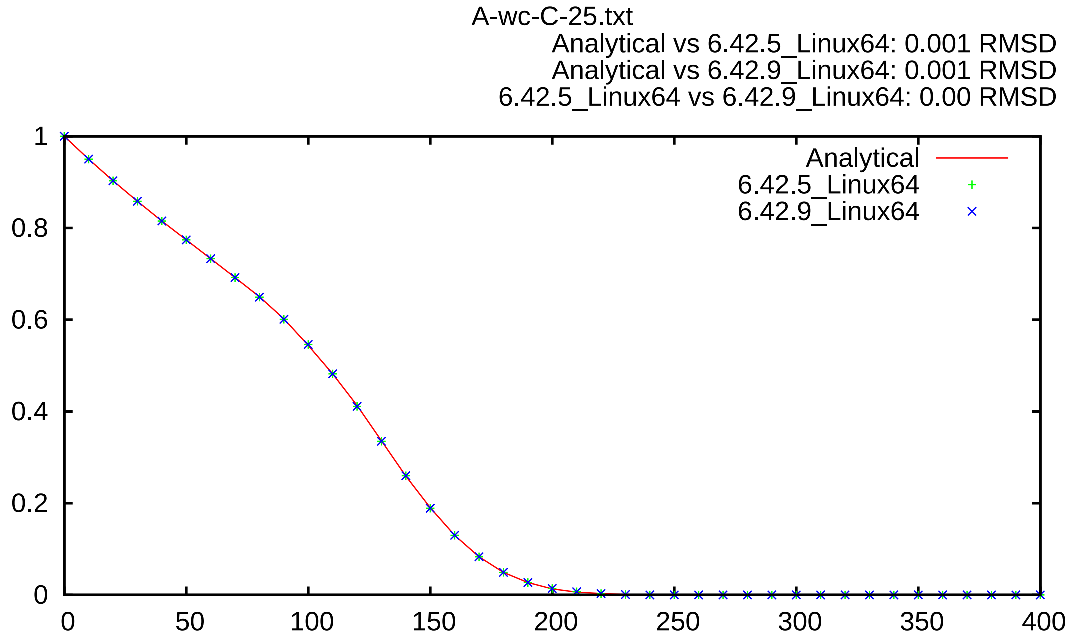

Figure 5.5.9: Parent, 25 years.

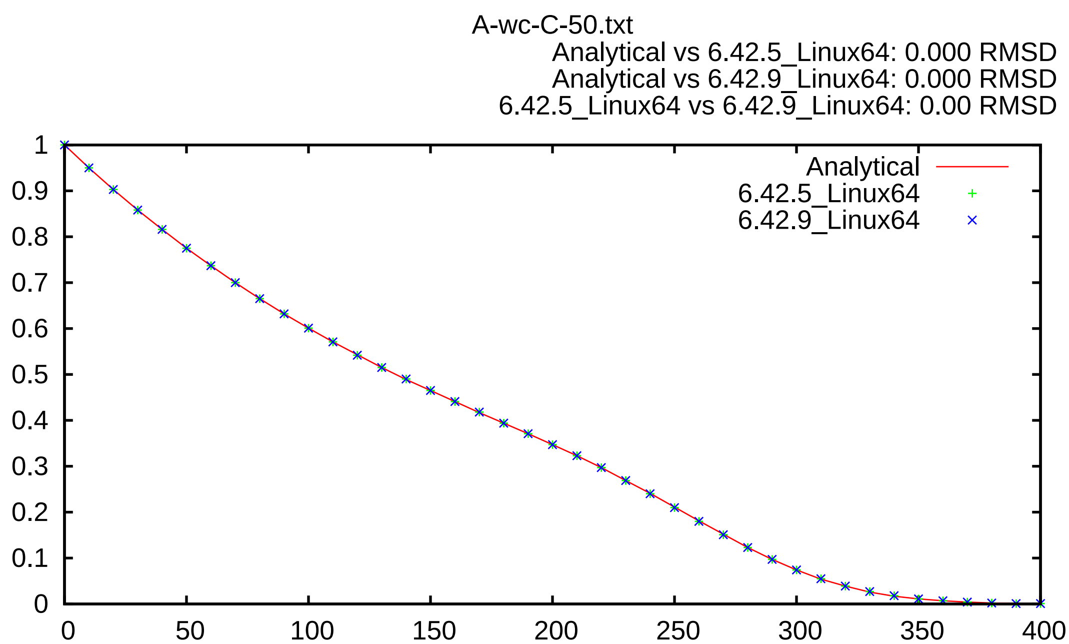

Figure 5.5.10: Parent, 50 years.

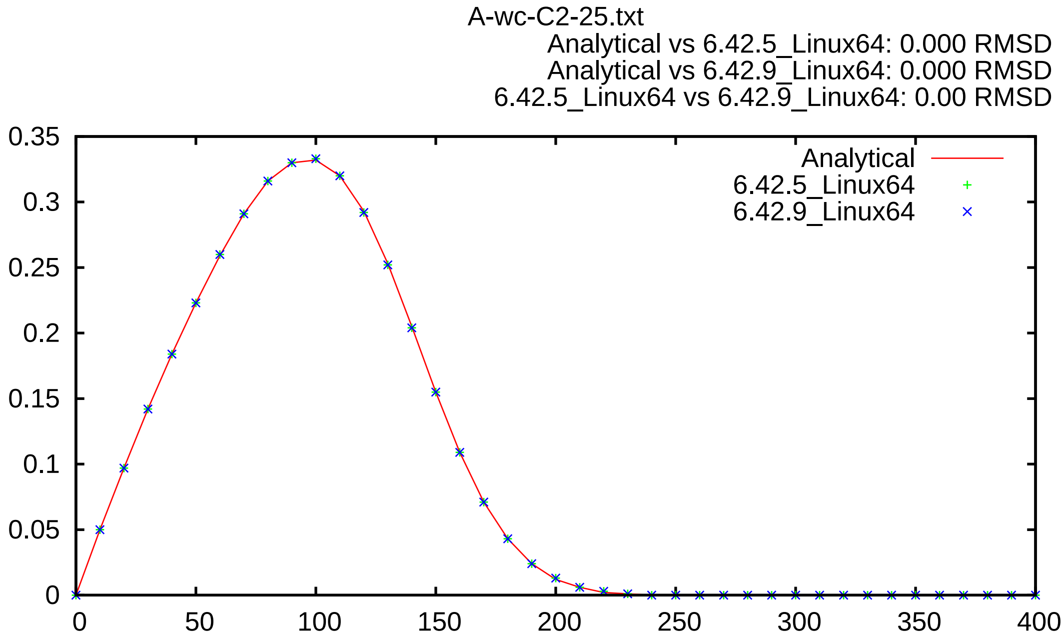

Figure 5.5.11: Daughter, 25 years.

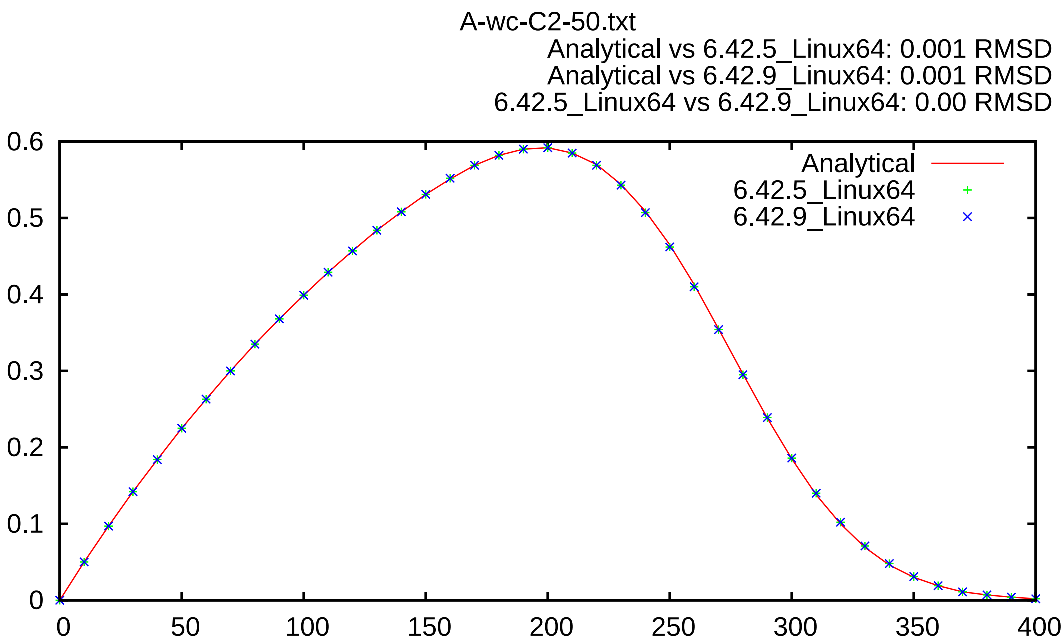

Figure 5.5.12: Daughter, 50 years.

5.5.3 Override non-standard retardation factor using PROP TOTA function and RETA

This problem tests the PROP TOTA command and uses the RETA command to input the Kd, and is an alternative way to implement equation Equation (5.5.1).

Listing 78 shows the PORFLOW input file for this problem. Figures 5.5.13 to 5.5.16 show the results of using this command. The differences between PORFLOW versions are minimal.

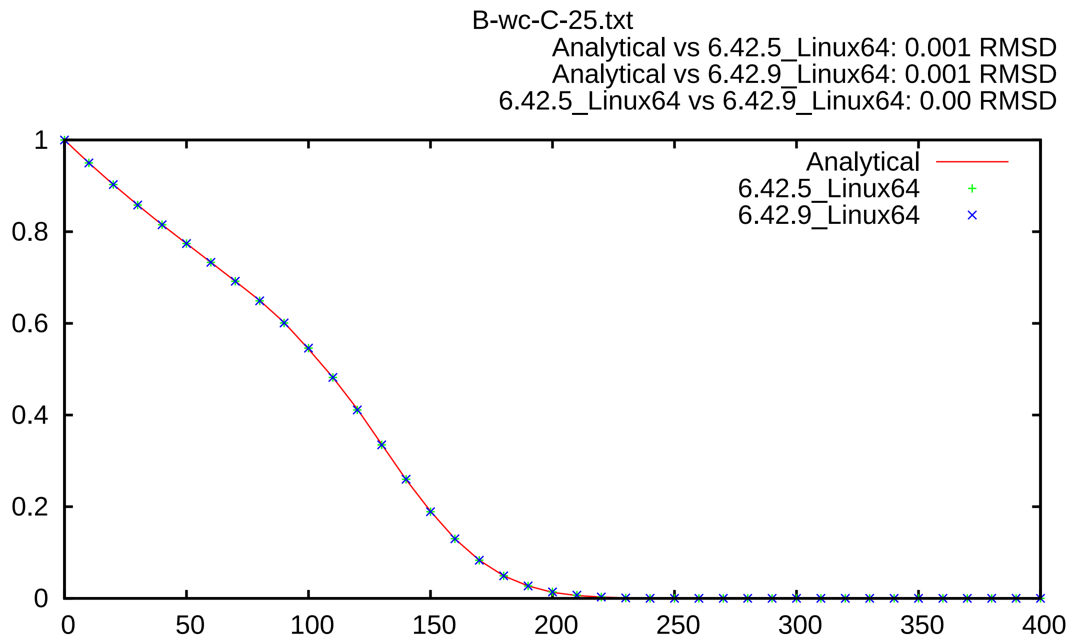

Figure 5.5.13: Parent, 25 years.

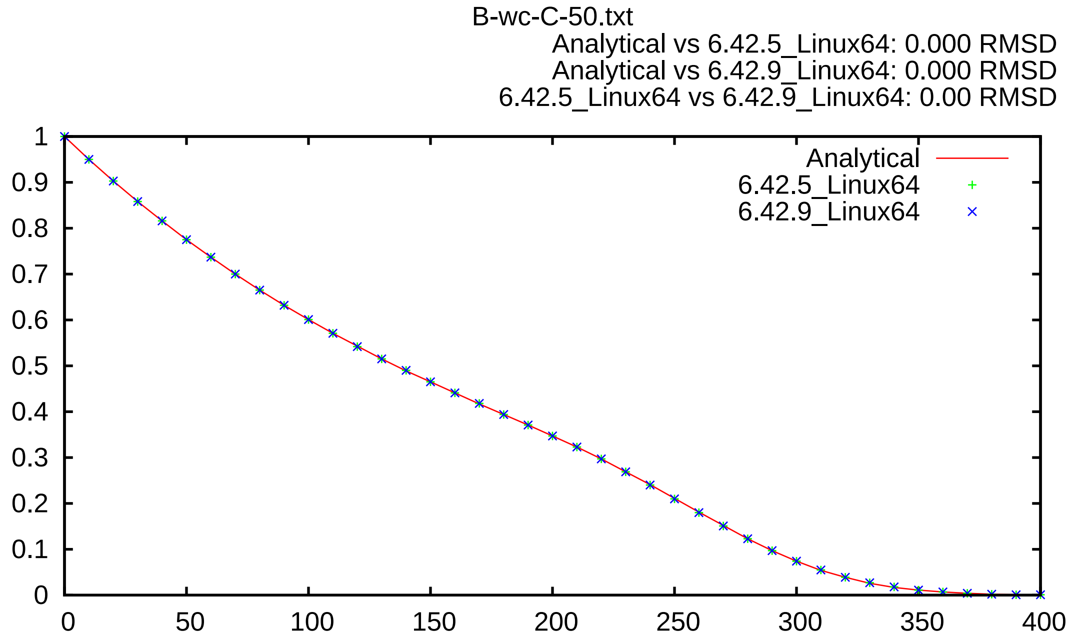

Figure 5.5.14: Parent, 50 years.

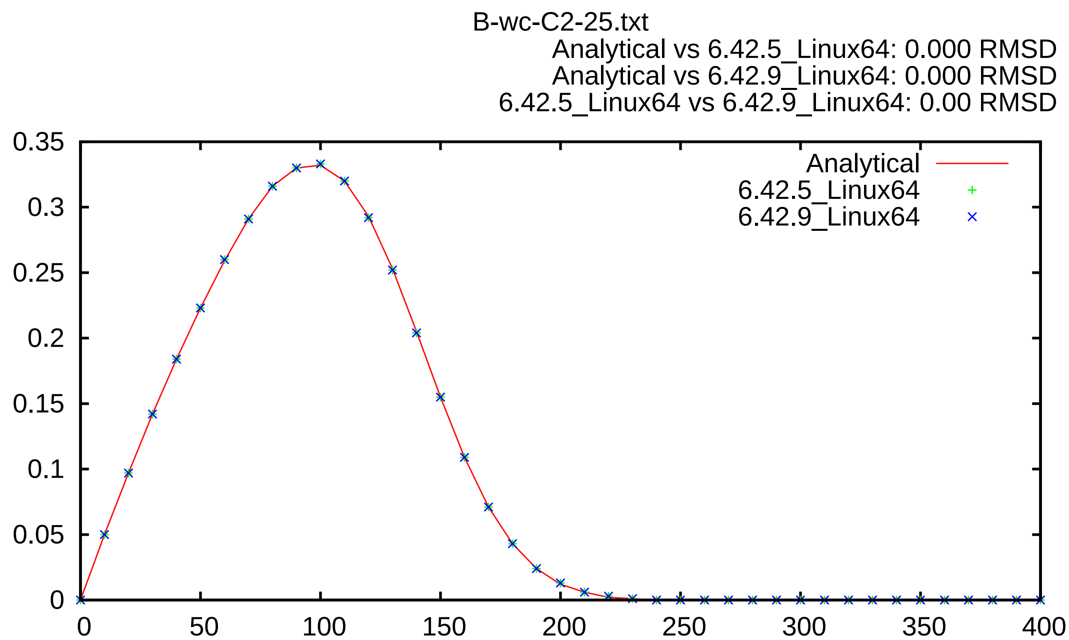

Figure 5.5.15: Daughter, 25 years.

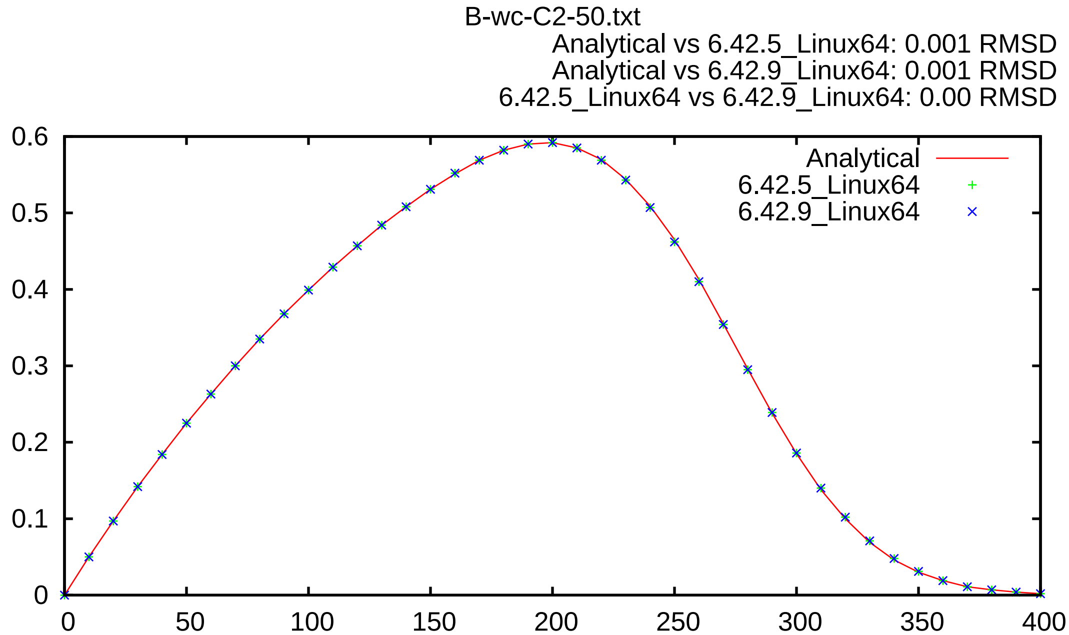

Figure 5.5.16: Daughter, 50 years.

5.5.4 Override non-standard retardation factor using PROP TOTA function and DIST Mode 3

This problem tests the PROP TOTA command and uses the DIST (Mode 3) command to input the Kd, and is an alternative way to implement equation eq. (5.5.1).

Listing 79 shows the PORFLOW input file for this problem. Figures 5.5.17 to 5.5.20 show the results of using this command. The differences between PORFLOW versions are minimal.

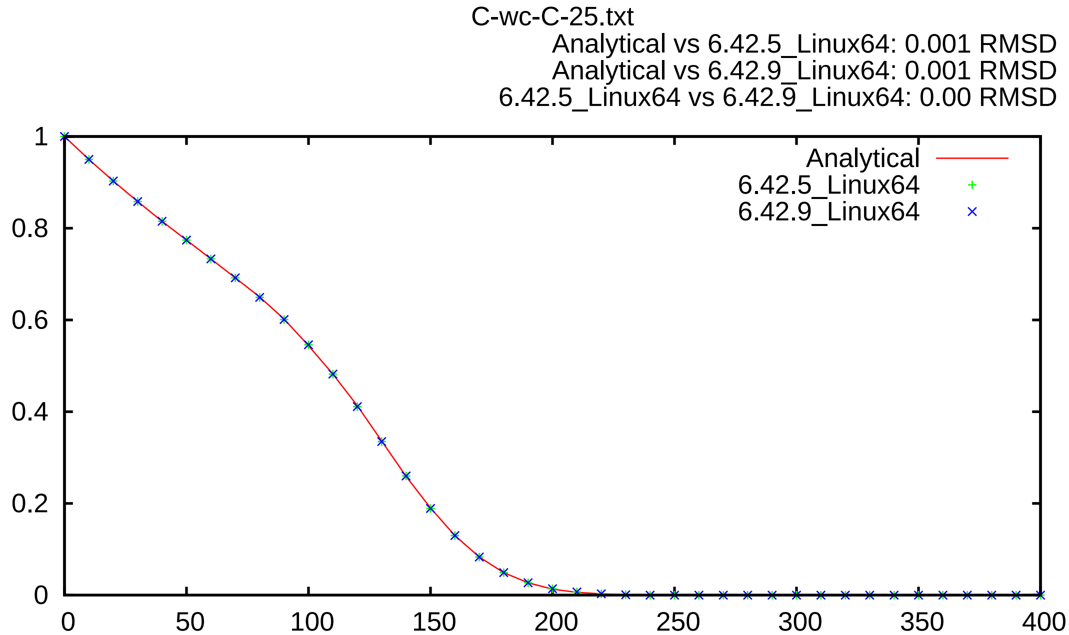

Figure 5.5.17: Parent, 25 years.

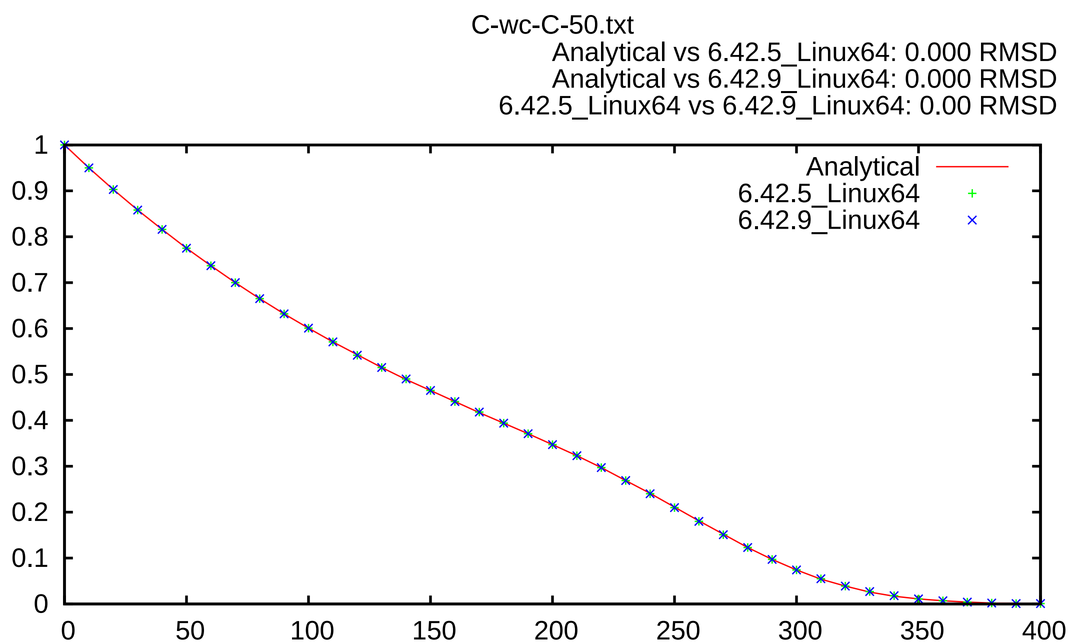

Figure 5.5.18: Parent, 50 years.

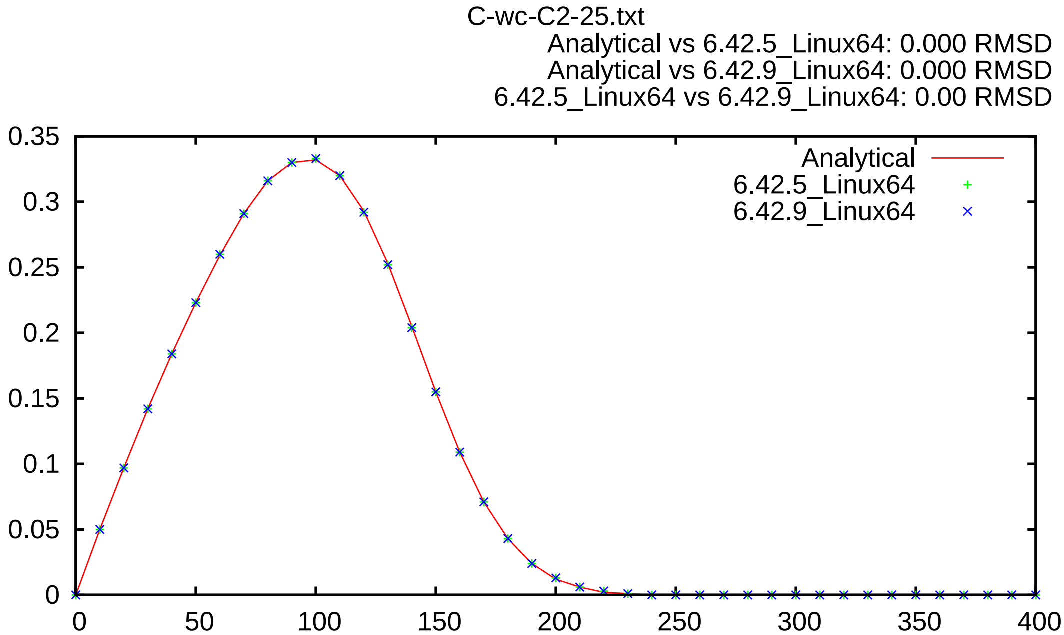

Figure 5.5.19: Daughter, 25 years.

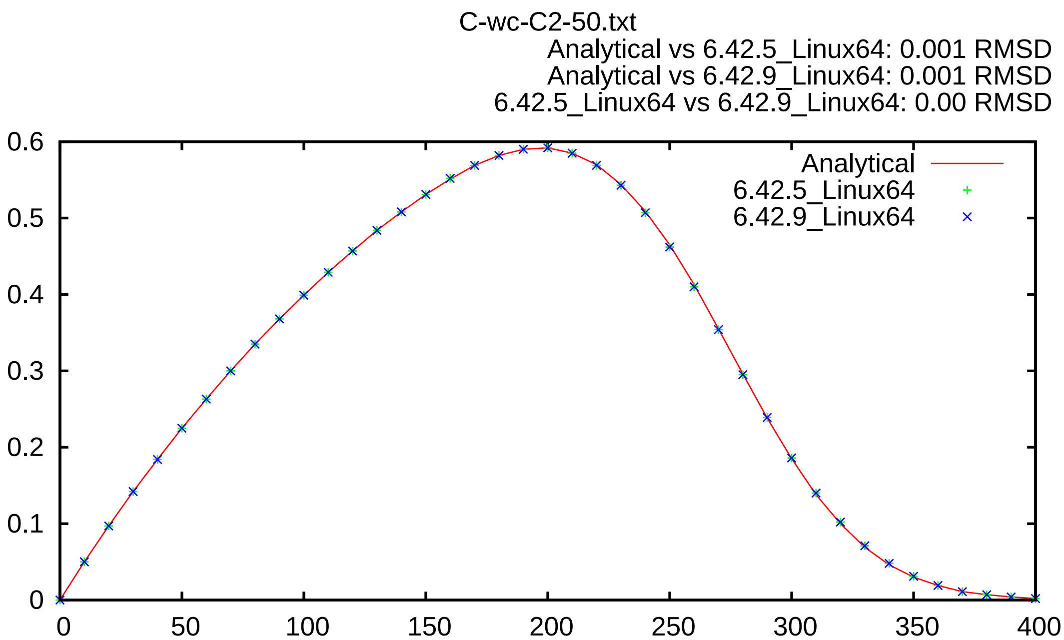

Figure 5.5.20: Daughter, 50 years.

5.5.5 Override non-standard retardation factor using DIST TOTA function Mode 1

This problem tests the DIST TOTA command, the Mode 1 form of the command, to input the Kd, and is an alternative way to implement equation eq. (5.5.1).

Listing 80 shows the PORFLOW input file for this problem. Figures 5.5.21 to 5.5.24 show the results of using this command. The differences between PORFLOW versions are minimal.

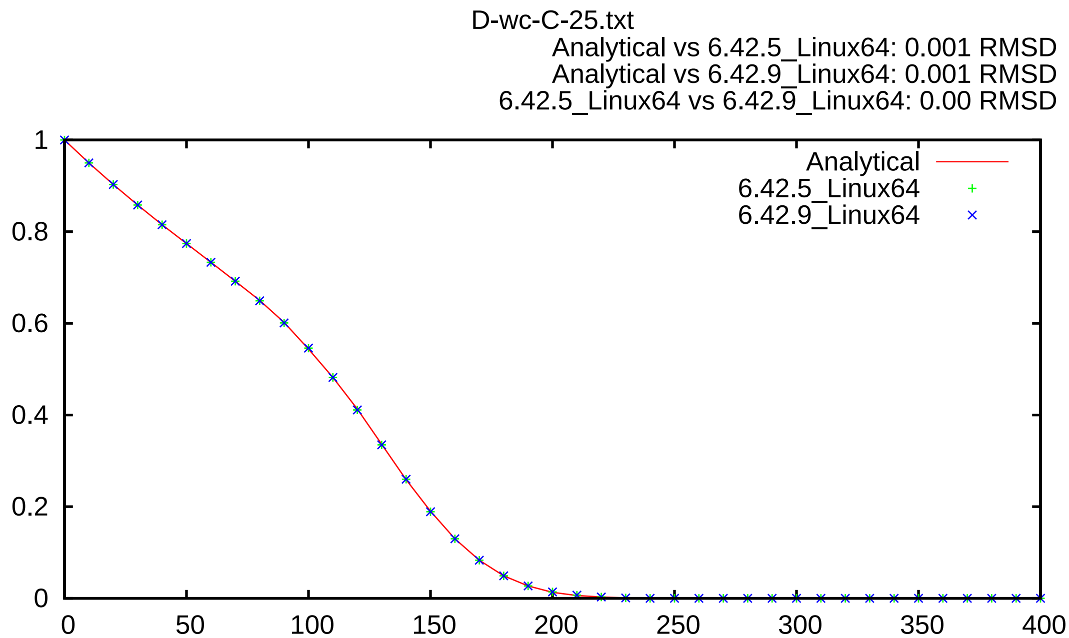

Figure 5.5.21: Parent, 25 years.

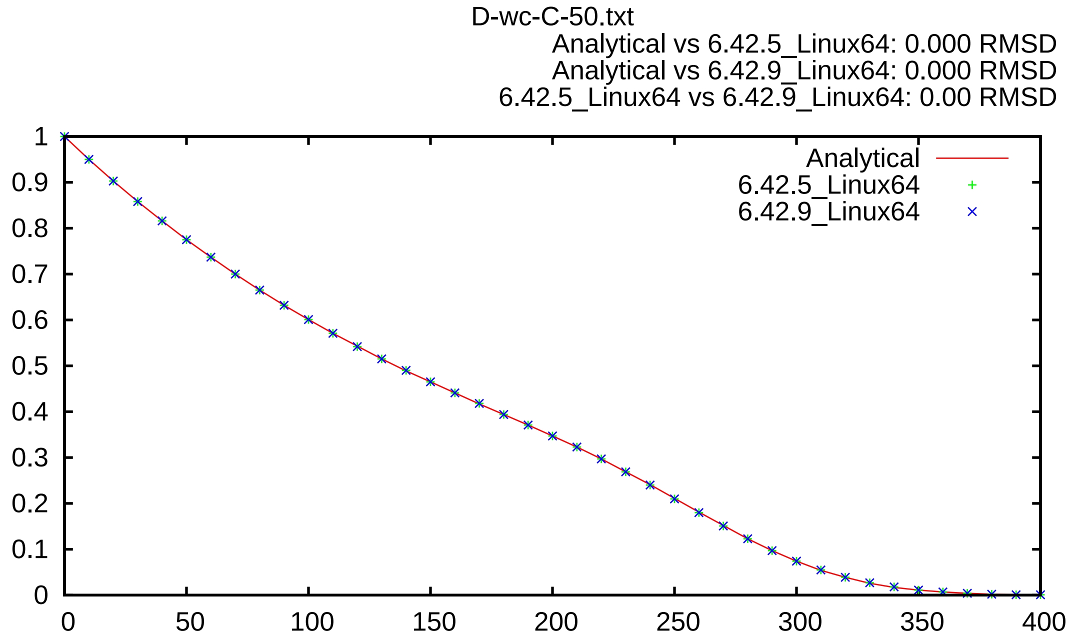

Figure 5.5.22: Parent, 50 years.

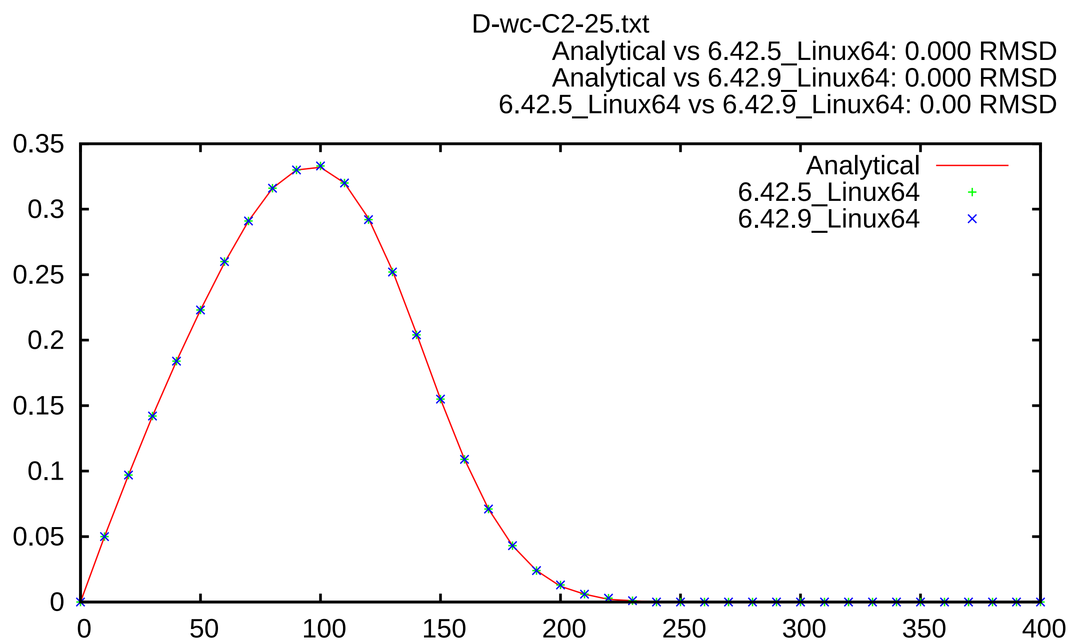

Figure 5.5.23: Daughter, 25 years.

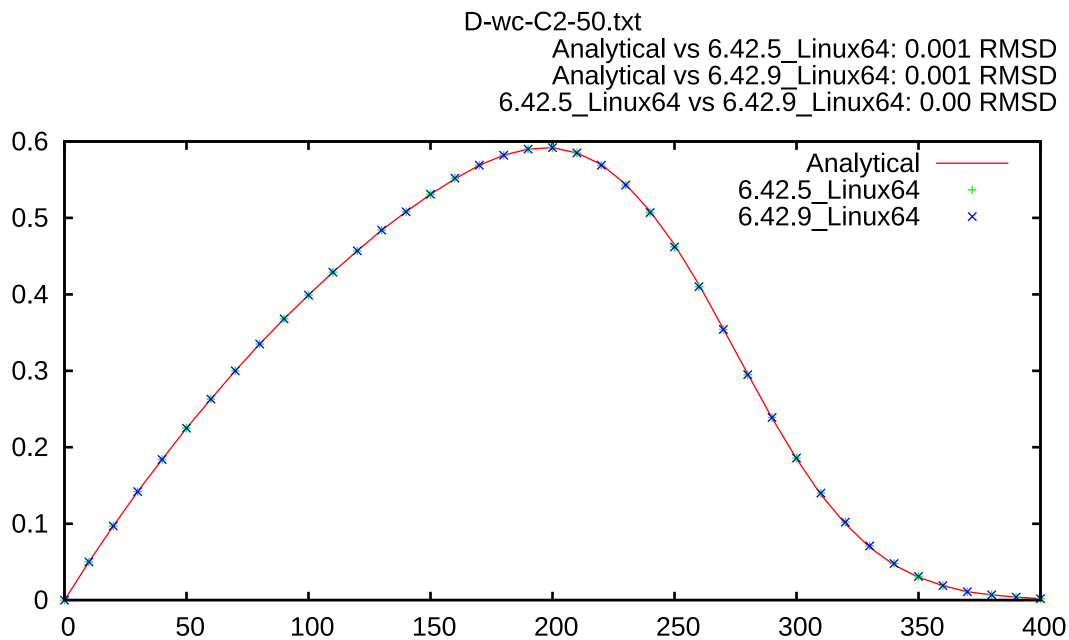

Figure 5.5.24: Daughter, 50 years.

5.5.6 Override non-standard retardation factor using STORage function

This problem tests the STORage command to input the Kd, and is an alternative way to implement equation eq. (5.5.1).

Listing 81 shows the PORFLOW input file for this problem. Figures 5.5.25 to 5.5.28 show the results of using this command. The differences between PORFLOW versions are minimal.

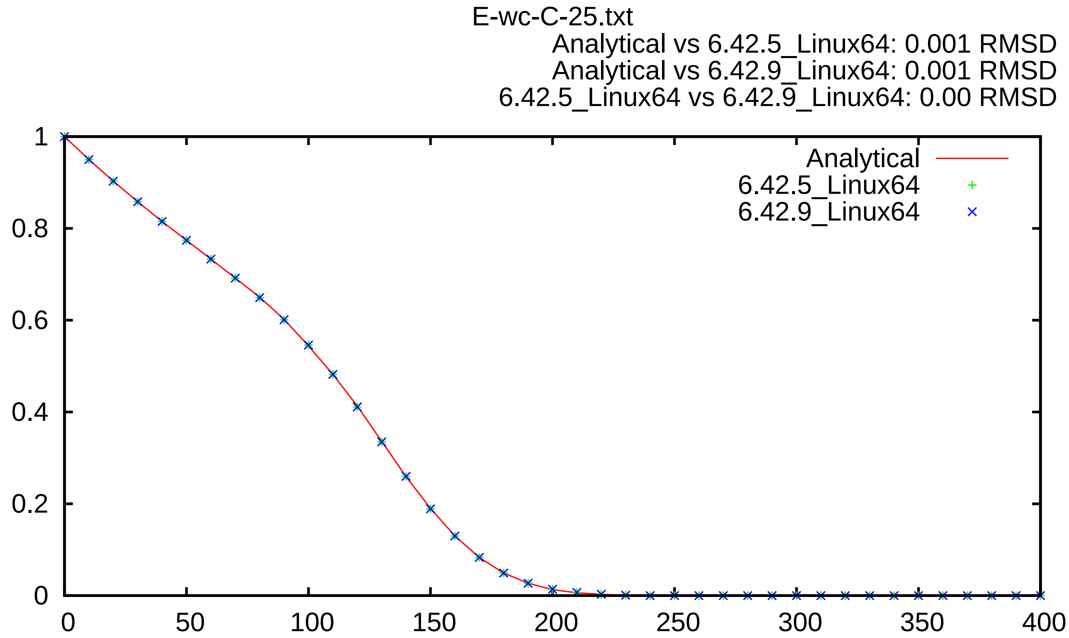

Figure 5.5.25: Parent, 25 years.

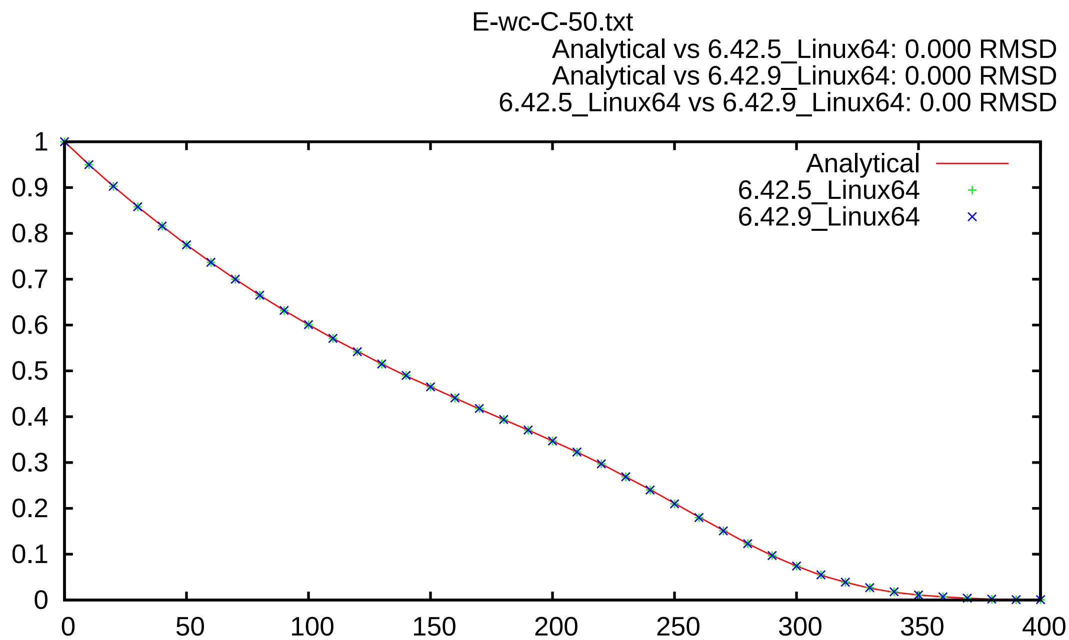

Figure 5.5.26: Parent, 50 years.

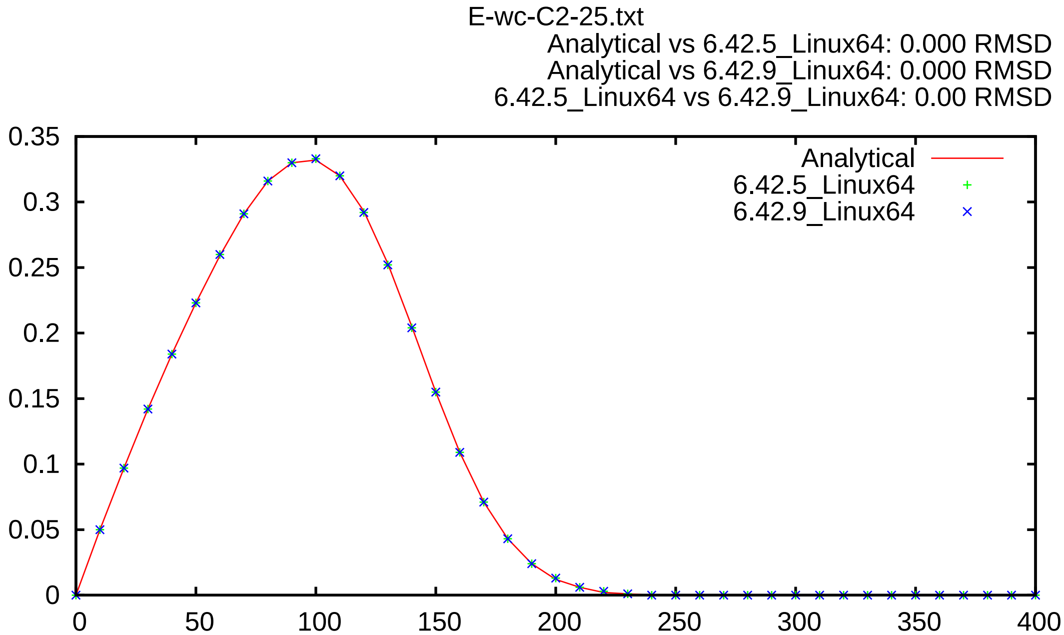

Figure 5.5.27: Daughter, 25 years.

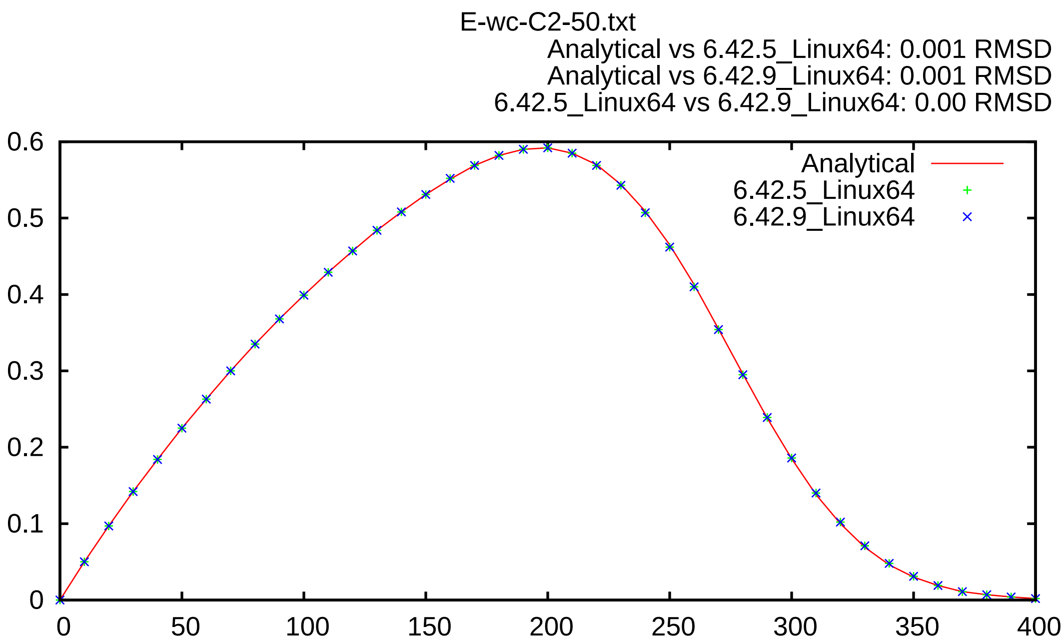

Figure 5.5.28: Daughter, 50 years.

6 Group 3: Dispersion

The impact of numerical and mechanical dispersion in PORFLOW on peak solute concentrations is addressed in this section with regard to mesh spacing in a one-dimensional pulsed soil column. Numerical dispersion in two and three dimensions is not addressed here but may be addressed in a subsequent study, as needed. The current license of PORFLOW has unlimited nodes, however the executable files have a node limitation of 256,000, which exceeds current practical needs.

Numerical dispersion in one dimension can be minimized by not allowing the solute concentration to advect more than one cell length within one time step. The Courant condition for advective transport is

$$(\delta t)_A \leq \frac{\delta x}{u'_x} \tag{6.0.1}$$

where $(\delta t)_A$ is the time step for advective transport, δx is the cell length and u'_x is the retarded phasic velocity in the x-direction. Numerical oscillations in the solute concentration due to diffusion and dispersion can be eliminated by invoking the Von Neumann criterion for dispersive transport as

$$(\delta t)_D \leq \frac{(\delta x)^2}{3D'_{xx}} \tag{6.0.2}$$

where $(\delta t)_D$ is the time step for dispersive and diffusive transport and D'_{xx} is the retarded longitudinal dispersion coefficient. Numerical dispersion can be negligible when $\delta x \leq \alpha_L$, because mechanical dispersion is equally or more important than advective transport. For a refined mesh, the time step for dispersive transport may become more restrictive than the time step for advective transport, due to the quadratic dependence on mesh size in Equation (6.0.2).

The current engineering judgment for modeling groundwater transport at SRS is not to invoke mechanical dispersion in PORFLOW, only advective and molecular transport. For coarser grids in the aquifer, the idea is that numerical dispersion will be on par with mechanical dispersion based on reasonable values for the longitudinal and transverse dispersivities. This is all conjecture. In the next subsection, we will demonstrate the impact of numerical and mechanical dispersion on the peak concentrations of a pulsed one-dimensional soil column.

6.1 Numerical and Mechanical Dispersion in a one-dimensional saturated soil column

A series of one-dimensional solute transport simulations under saturated conditions and with a 10 m/yr Darcy velocity were executed in PORFLOW. Ten PORFLOW grids were generated with equally sized mesh spacing ranging from 0.1 to 60 meters. The extent of the PORFLOW grid was from -200 meters to 800 meters. Adjustments were made to the extent of the grid to accommodate a source node at x = 0. The number of nodes range from 10001 to 19 for mesh spacing of 0.1 and 60 meters, respectively.

An inflow boundary condition of zero concentration was specified at X and a dispersive flux of zero was specified at +X.

A conservative species was injected at x = 0 with a source strength of 10 kg/yr/m for a duration of 1 year and a time step of 0.001 year. This results in a pulse of unit concentration traveling at a phasic velocity of 40 meters per year. The width of the pulse is 40 meters. The transport simulations were executed for an additional 4.5 years at a time step of 0.001 year. The centerline of the pulse arrives at x = 200 meters in 5.5 years.

6.1.1 Numerical Dispersion

During these simulations, mechanical dispersion and molecular diffusion are set to zero. At a mesh spacing of 0.1 meters, PORFLOW matches the peak concentration of the analytical pulse profile. As the mesh gets coarser, the resulting spread of the pulse is due to numerical dispersion. With increasing mesh spacing, PORFLOW continues to deviate more from the analytical pulse. The analytical solution uses the one-dimensional solution to Equation (5.2.8).

Listing 82 shows the PORFLOW input file for this problem.

Figures 6.1.11 to 6.1.20 show the calculated PORFLOW and analytical results. The exact values can be seen in Tables B.6.1 to B.6.10.

Fine mesh resolution is needed to capture the peak solute concentration in PORFLOW if numerical dispersion is present.

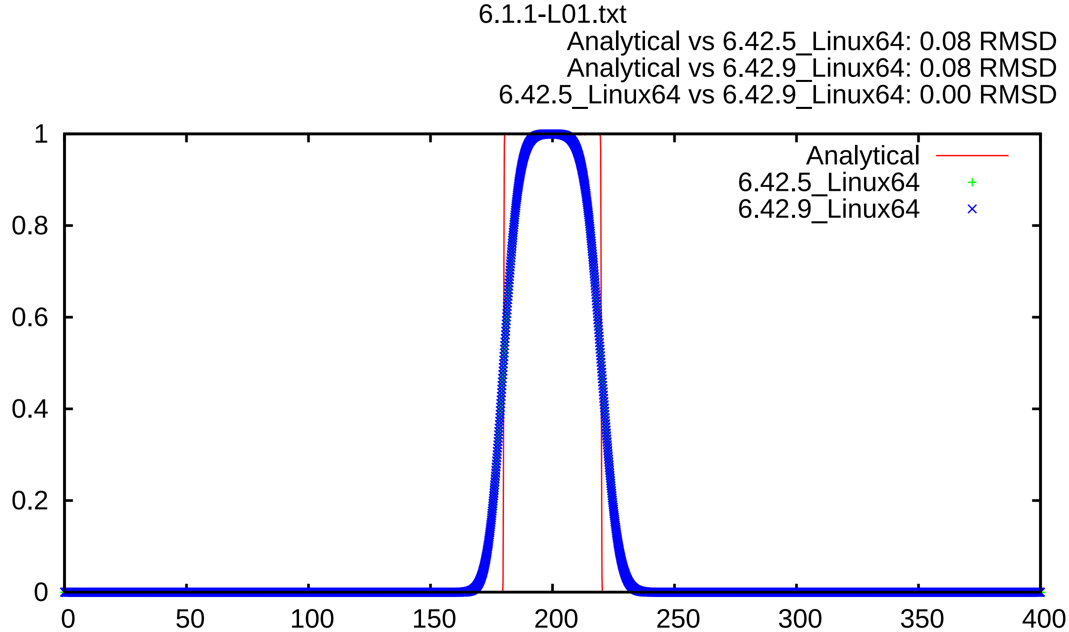

Figure 6.1.1: Normalized solute concentration profile at 5.5 years with a mesh spacing of 0.1 m.

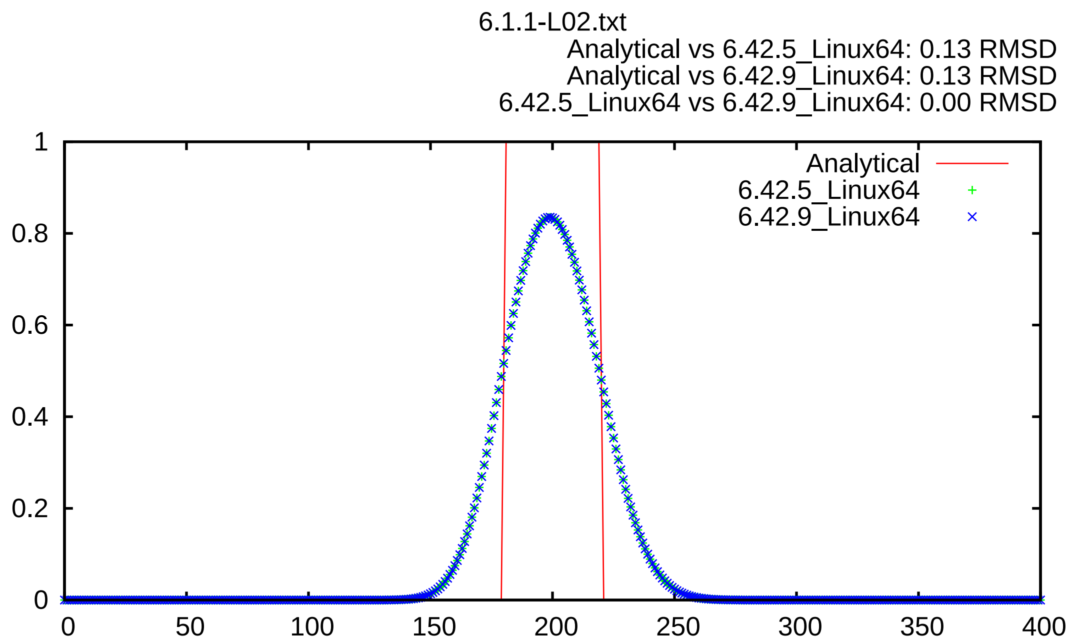

Figure 6.1.2: Normalized solute concentration profile at 5.5 years with a mesh spacing of 1 m.

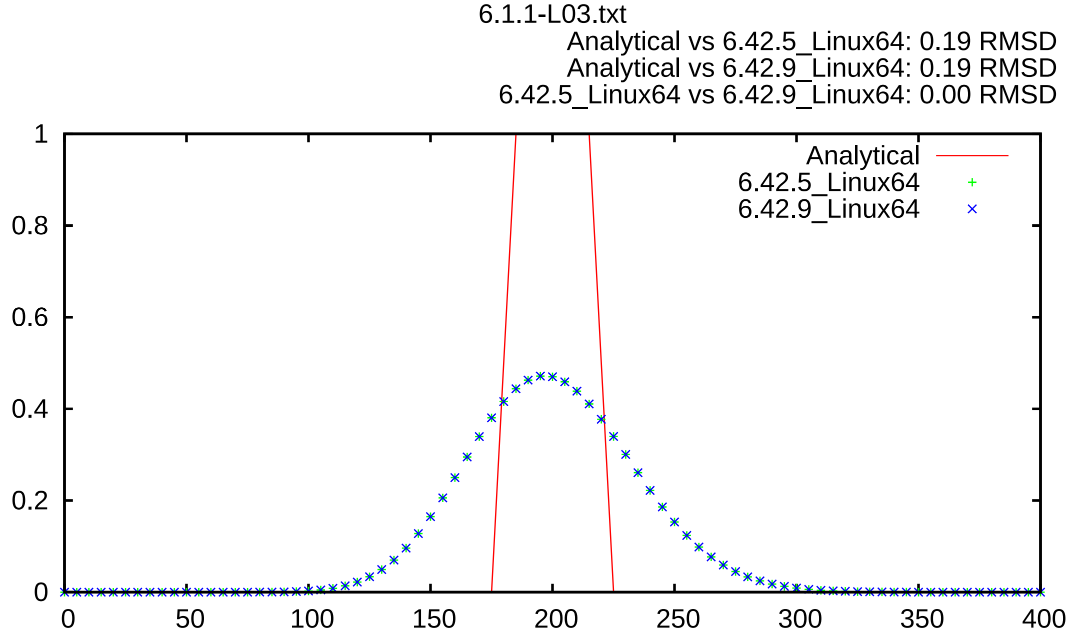

Figure 6.1.3: Normalized solute concentration profile at 5.5 years with a mesh spacing of 5 m.

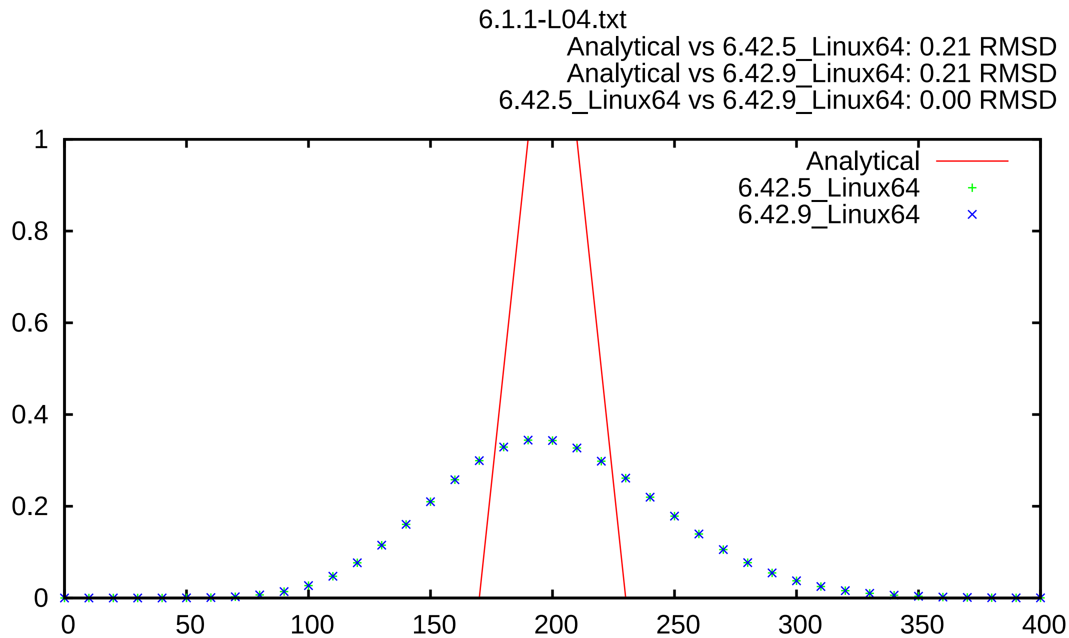

Figure 6.1.4: Normalized solute concentration profile at 5.5 years with a mesh spacing of 10 m.

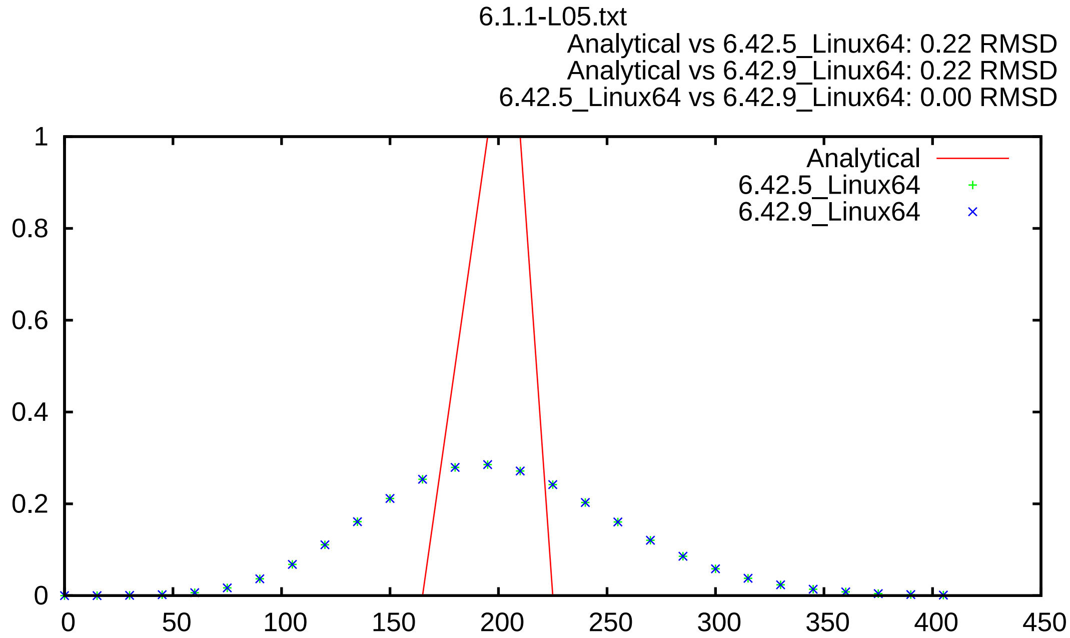

Figure 6.1.5: Normalized solute concentration profile at 5.5 years with a mesh spacing of 15 m.

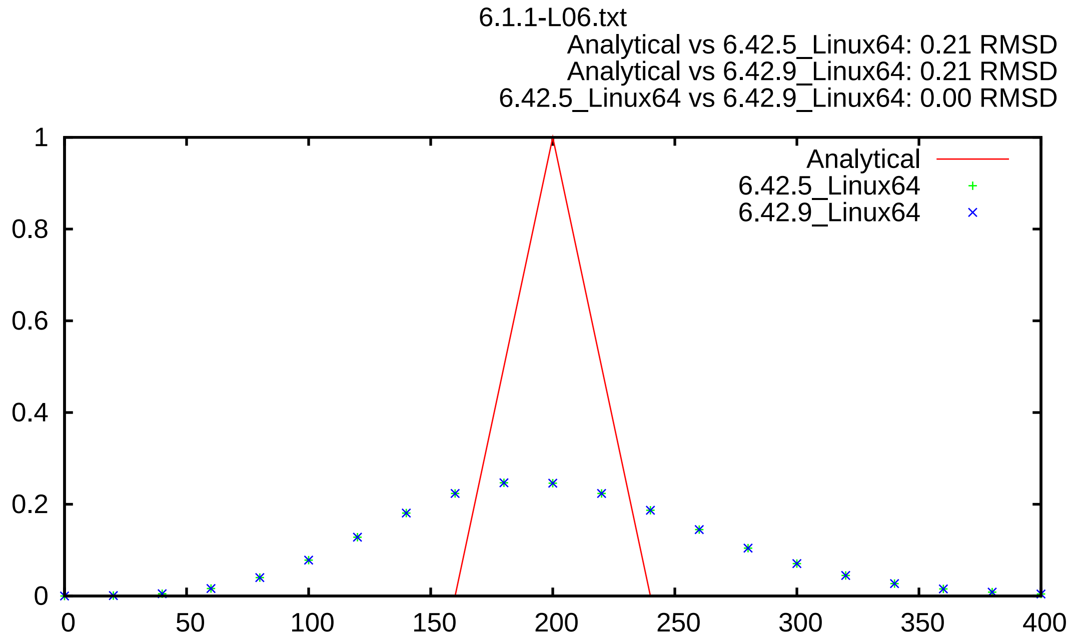

Figure 6.1.6: Normalized solute concentration profile at 5.5 years with a mesh spacing of 20 m.

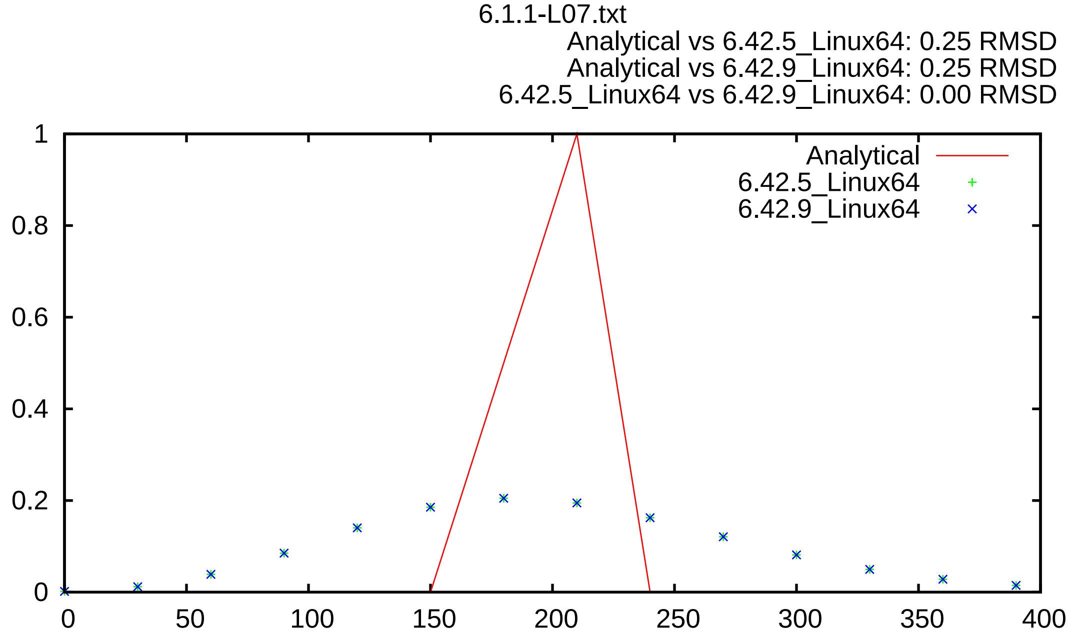

Figure 6.1.7: Normalized solute concentration profile at 5.5 years with a mesh spacing of 30 m.

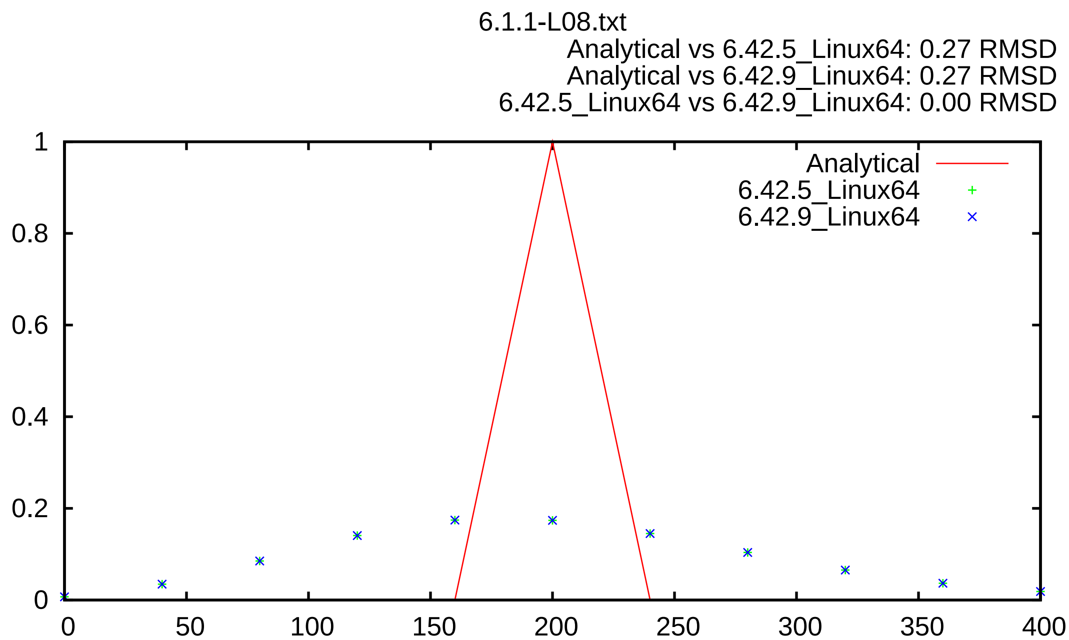

Figure 6.1.8: Normalized solute concentration profile at 5.5 years with a mesh spacing of 40 m.

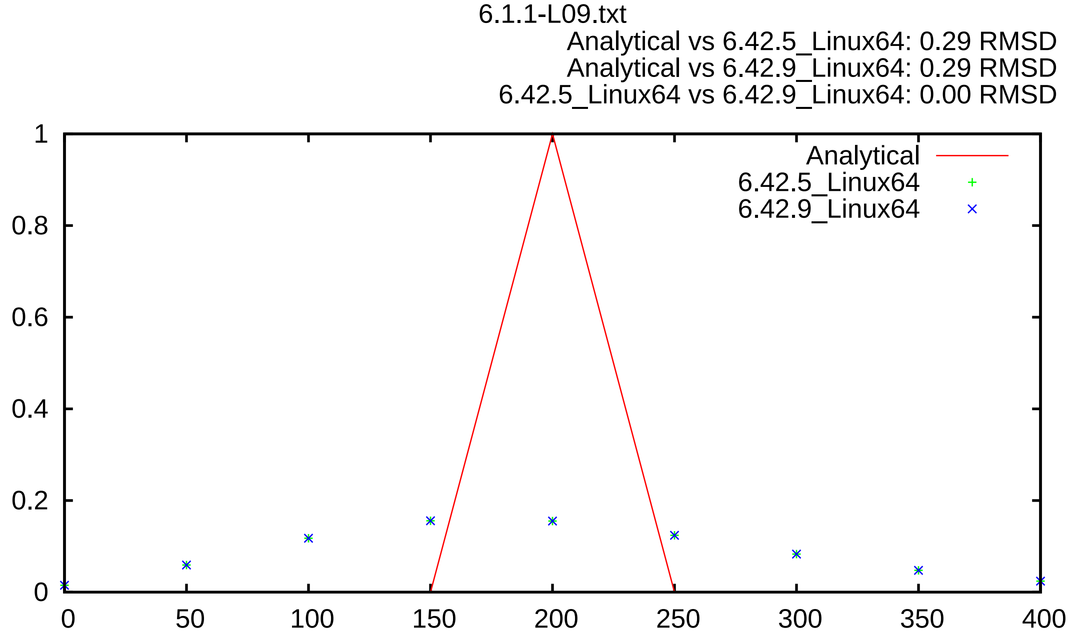

Figure 6.1.9: Normalized solute concentration profile at 5.5 years with a mesh spacing of 50 m.

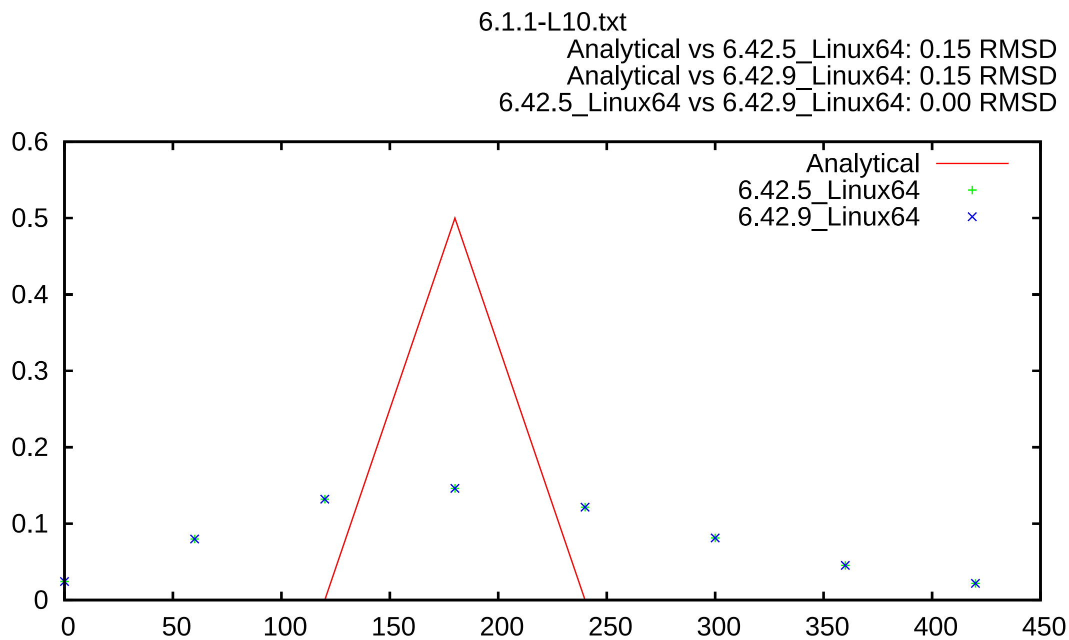

Figure 6.1.10: Normalized solute concentration profile at 5.5 years with a mesh spacing of 60 m.

6.1.2 Mechanical Dispersion

The centerline of the pulse travels 200 meters in 5.5 years. A rule-of-thumb longitudinal dispersivity equal to one-tenth the travel distance was chosen as 20 meters. This problem was run under the same condition as Section 6.1.1, except with mechanical dispersion. The peak concentration has dropped from 1 to 0.175. Below a mesh spacing of 20 meters, PORFLOW has excellent agreement with the analytical solution. Mechanical dispersion appears to become significant above a mesh spacing of 20 meters.

The analytical solution to this problem uses the one dimensional solution to Equation (5.2.8).

If mechanical dispersion is used in PORFLOW, the modeler needs to determine the appropriate mesh spacing and time stepping to mitigate the impact of mechanical dispersion, especially in multi-dimensional transport.

Listing 83 shows the PORFLOW input file for this problem. Figures 6.1.11 to 6.1.20 show the calculated PORFLOW and analytical results. The exact values can be seen in Tables B.6.11 to B.6.20.

There are no differences between PORFLOW versions. At small mesh spacing, the differences in the Analytical and PORFLOW solutions are minimal. As mesh spacing increases, the PORFLOW and analytical solutions deviate.

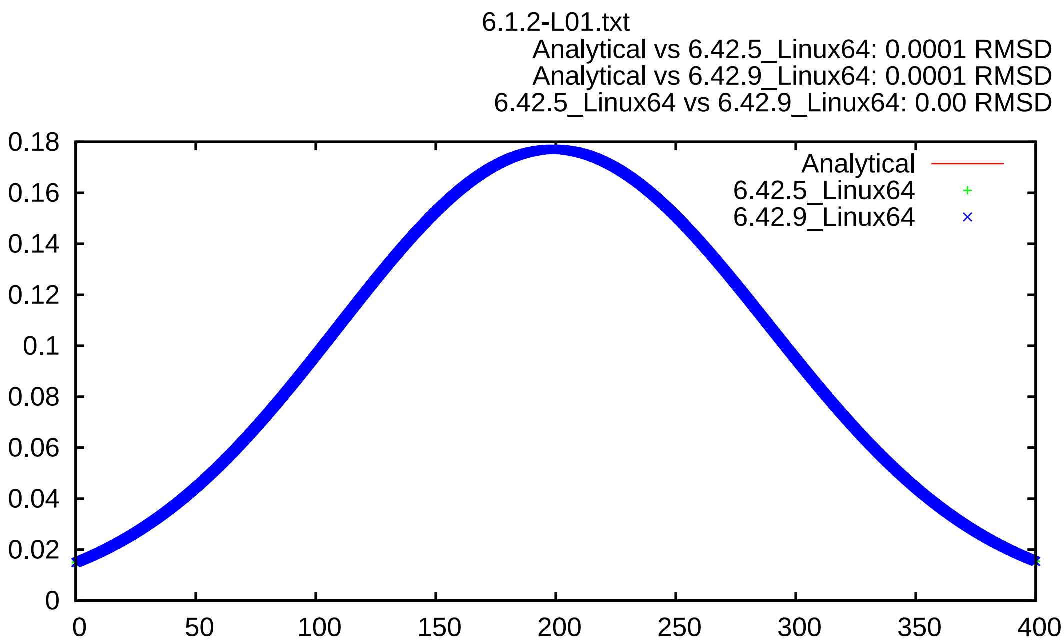

Figure 6.1.11: Normalized solute concentration profile at 5.5 years with a mesh spacing of 0.1 m.

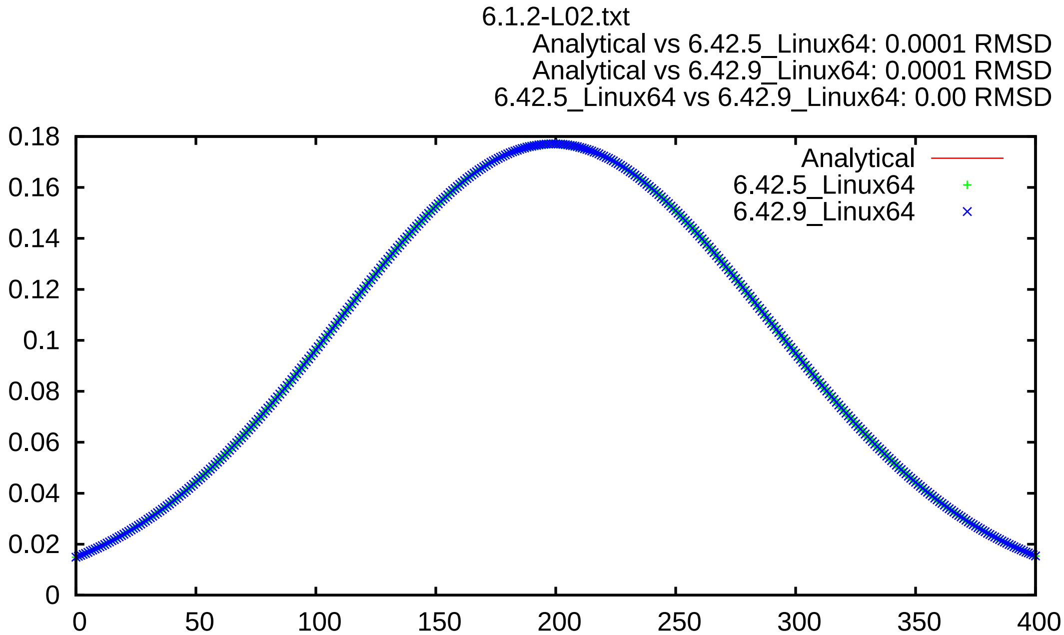

Figure 6.1.12: Normalized solute concentration profile at 5.5 years with a mesh spacing of 1 m.

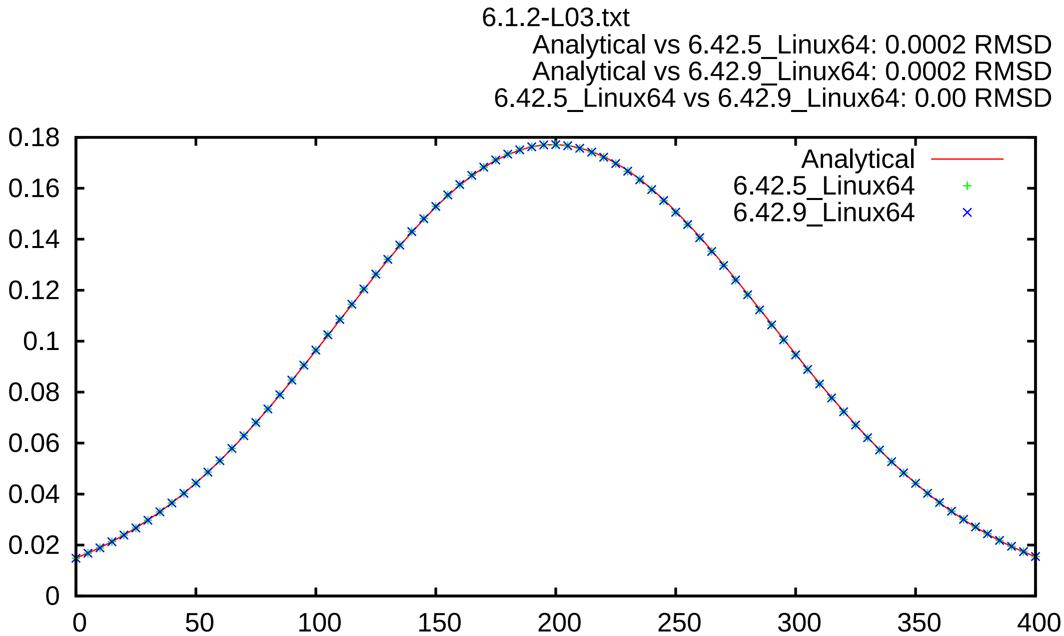

Figure 6.1.13: Normalized solute concentration profile at 5.5 years with a mesh spacing of 5 m.

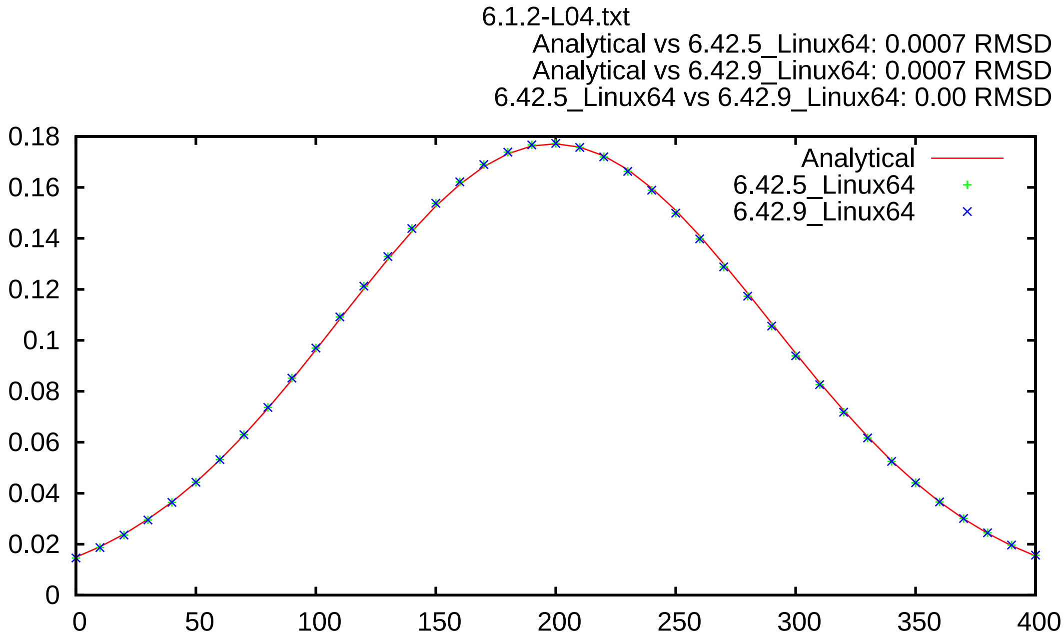

Figure 6.1.14: Normalized solute concentration profile at 5.5 years with a mesh spacing of 10 m.

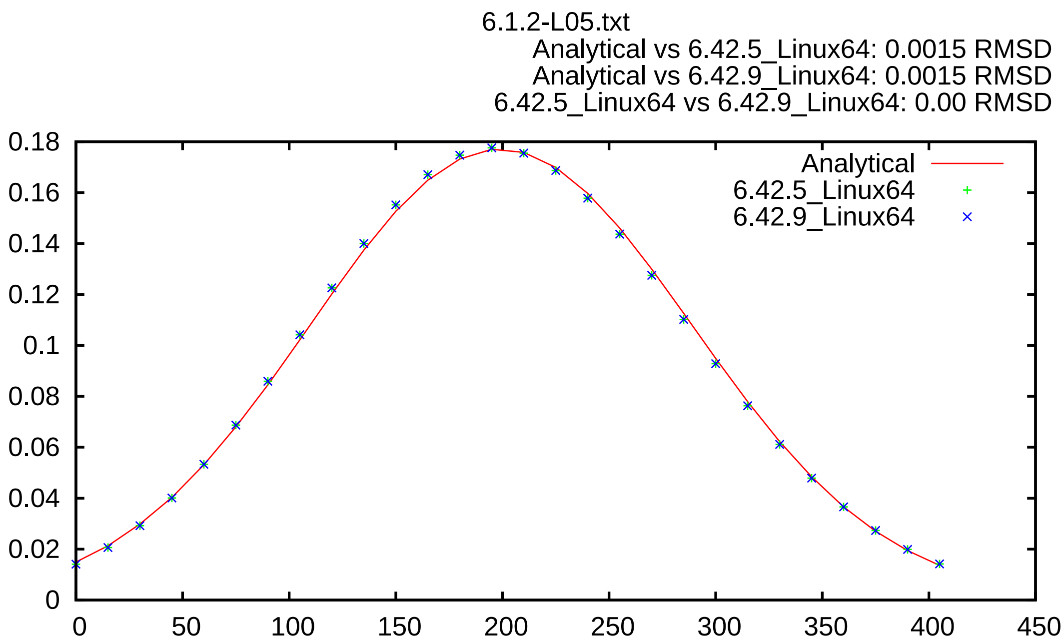

Figure 6.1.15: Normalized solute concentration profile at 5.5 years with a mesh spacing of 15 m.

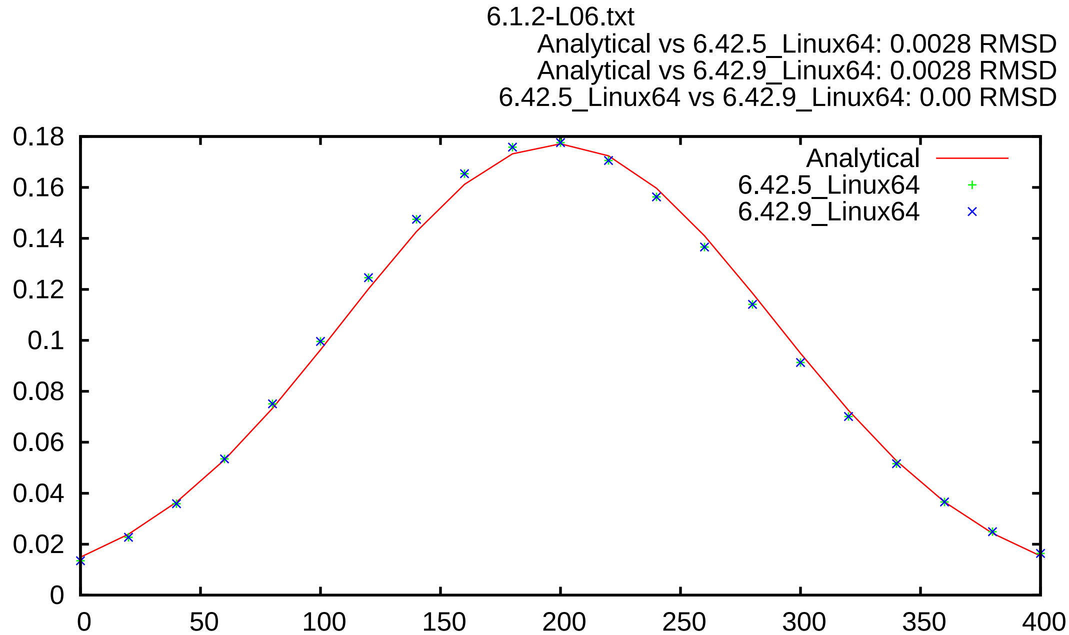

Figure 6.1.16: Normalized solute concentration profile at 5.5 years with a mesh spacing of 20 m.

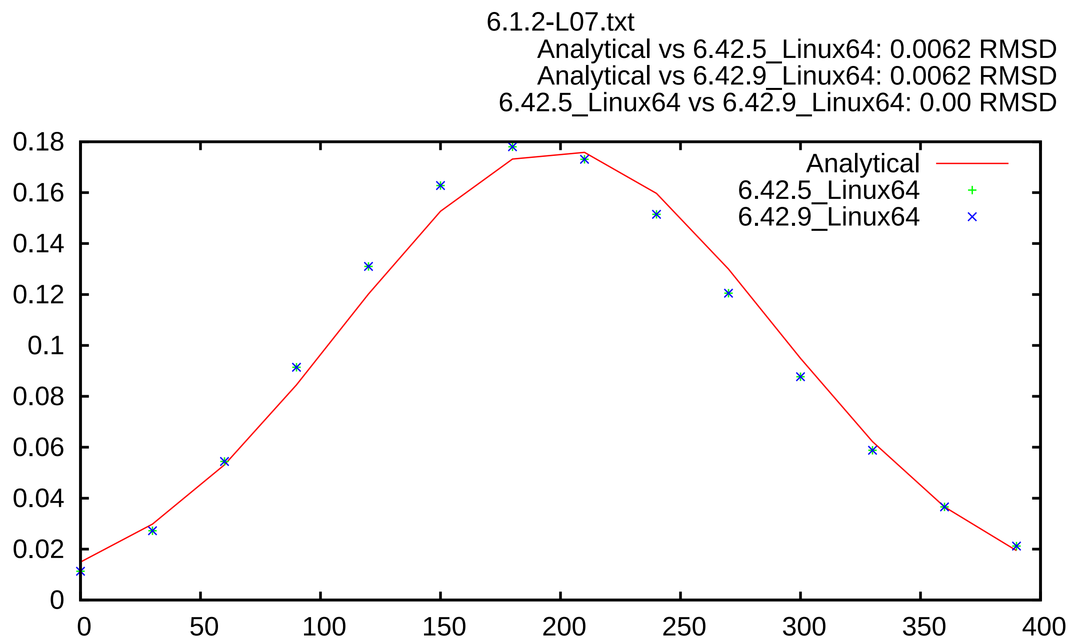

Figure 6.1.17: Normalized solute concentration profile at 5.5 years with a mesh spacing of 30 m.

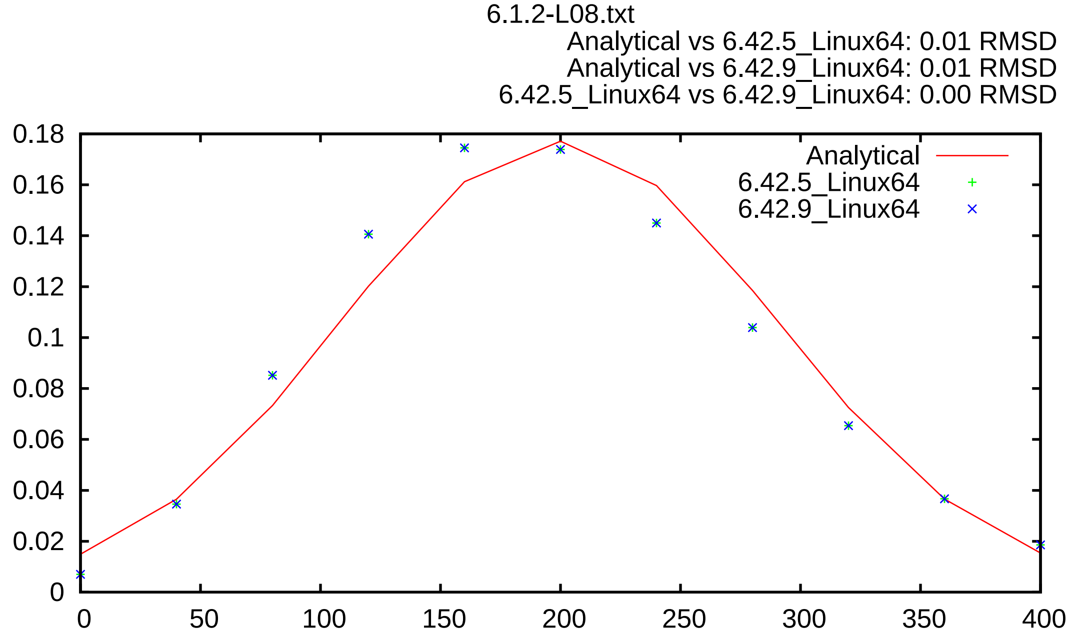

Figure 6.1.18: Normalized solute concentration profile at 5.5 years with a mesh spacing of 40 m.

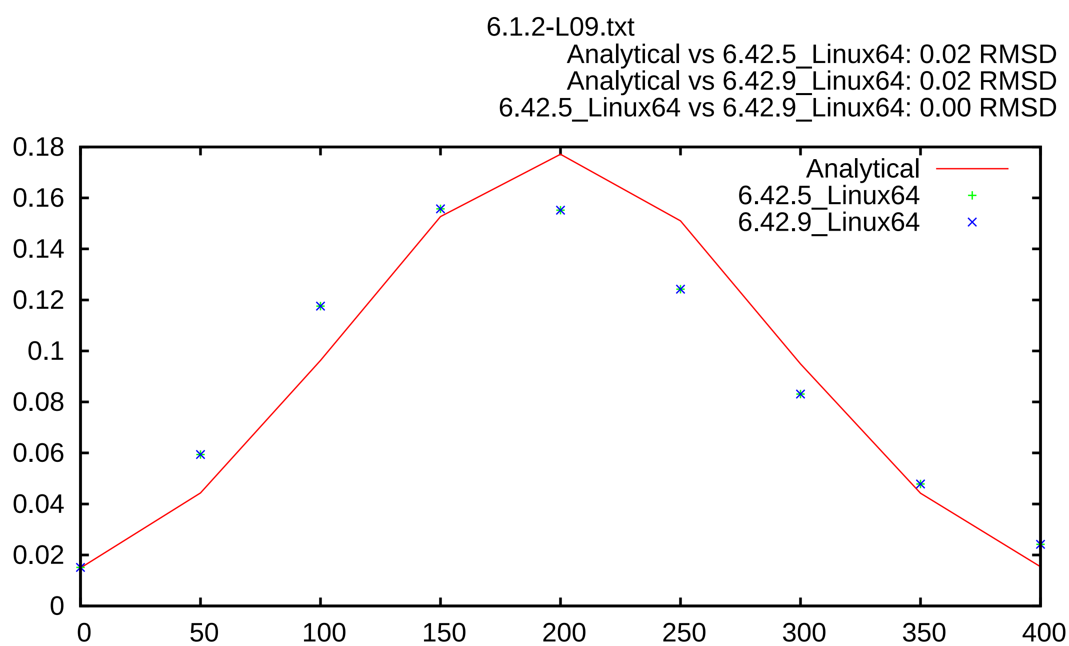

Figure 6.1.19: Normalized solute concentration profile at 5.5 years with a mesh spacing of 50 m.

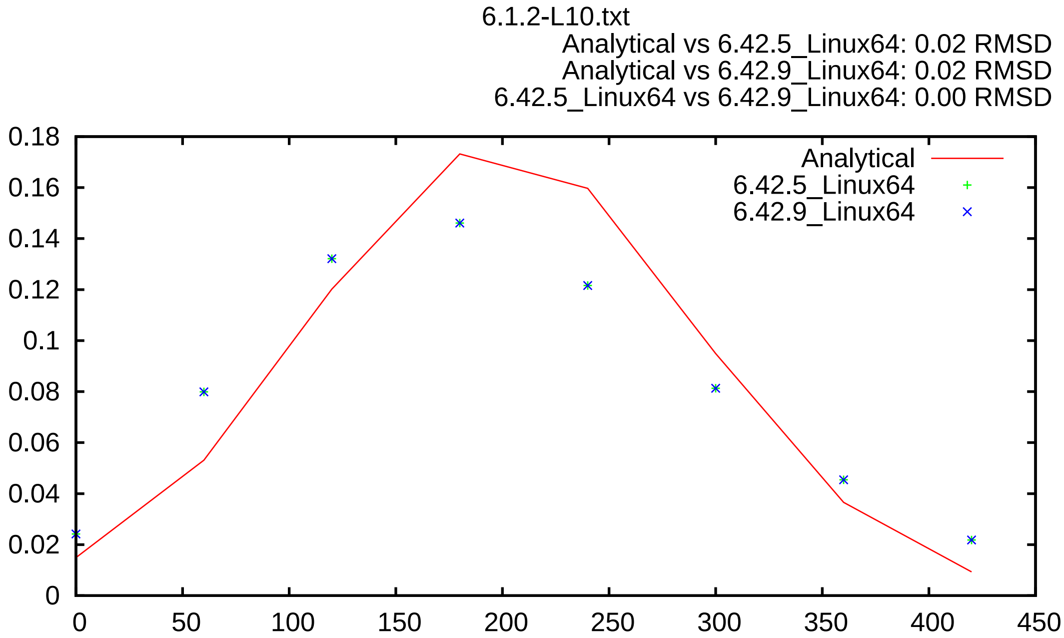

Figure 6.1.20: Normalized solute concentration profile at 5.5 years with a mesh spacing of 60 m.

7 Group 4: Keyword Commands

This section deals with the testing of several PORFLOW keyword commands that are of interest to the Performance Assessment modelers at SRNL. The list of keywords tested is not exhaustive by any means and will continue to grow as needed by the modeling community.

7.1 DECAy and REGEneration

Mode 1 (Direct Linear Decay) of the DECAy command is used to specify rate constants and mode of decay of a dependent variable due to physical, chemical or radioactive decay. The REGEneration command specifies the regeneration rate of one species from another in the decay chain. The U-230 decay chain, U-230→Th-226→Ra-222→Rn-218→Po-214→Pb-210→Bi-210→Po-210, was used to verify that PORFLOW correctly computes transient concentrations of the parent and progeny species undergoing radioactive decay only (no transport). The PORFLOW results were compared to the classical Bateman equation.

(Bateman, 1910) developed a general equation for serial decay chains, such as the heavy decay chain of U-238. Assume the concentration of all the daughters are initially zero (i.e. $n_i(0) = 0$ for $i > 1$), then the concentration of the i-th radionuclide can be determined from

$$n_i(t) = \lambda_1 \lambda_2 \cdots \lambda_{i-1} n_1(0) \sum_{j=1}^{i} \frac{e^{-\lambda_j t}}{\prod_{\substack{k=1 \\ k \neq j}}^{i} (\lambda_k - \lambda_j)} \tag{7.1.1}$$

A one-element PORFLOW model of unit size was constructed. The initial inventory of U-230 was set equal to one mole. No transport properties were specified for the species. Zero flux boundary conditions were imposed for all species. A 200-year simulation with a time step of 0.01 years was executed. The history of U-230 and its daughters was recorded every 0.1 years. The PORFLOW input commands are shown in Listing 84.

Figures 7.1.1 to 7.1.8 show a comparison of the transient concentrations of the U-230 decay chain to the Bateman equation. The Bateman and PORFLOW results are shown as lines and circles, respectively.

There are no differences between PORFLOW versions. The differences in the Analytical and PORFLOW results are due to the number of SOLVE steps taken by PORFLOW (set to 1000 per time step).

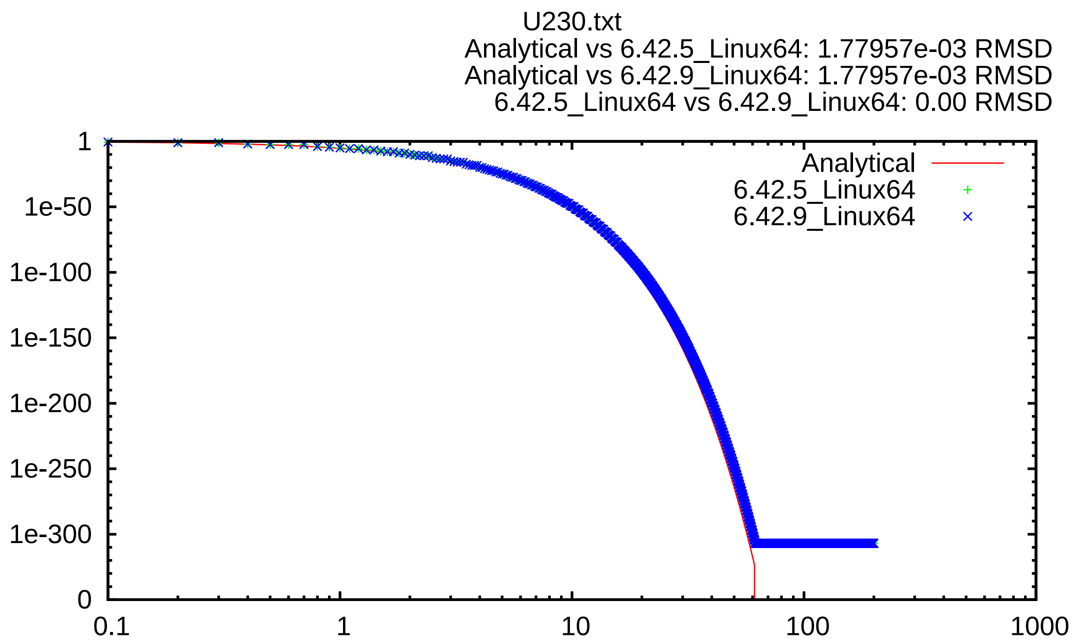

Figure 7.1.1: Comparison of PORFLOW to Bateman Solution - U230.

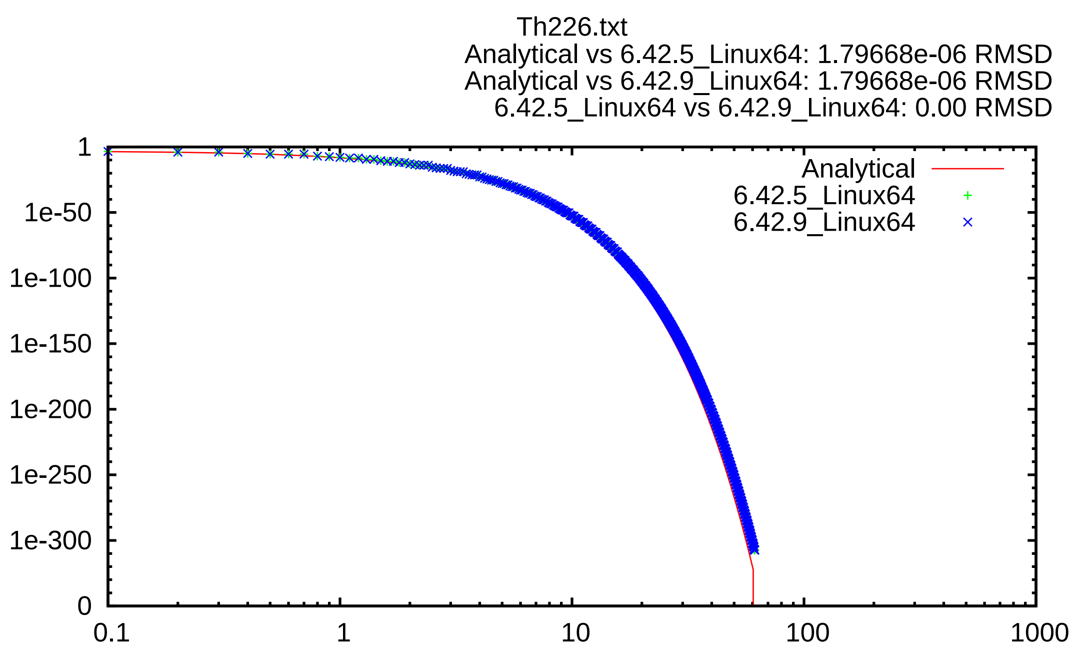

Figure 7.1.2: Comparison of PORFLOW to Bateman Solution - Th226.

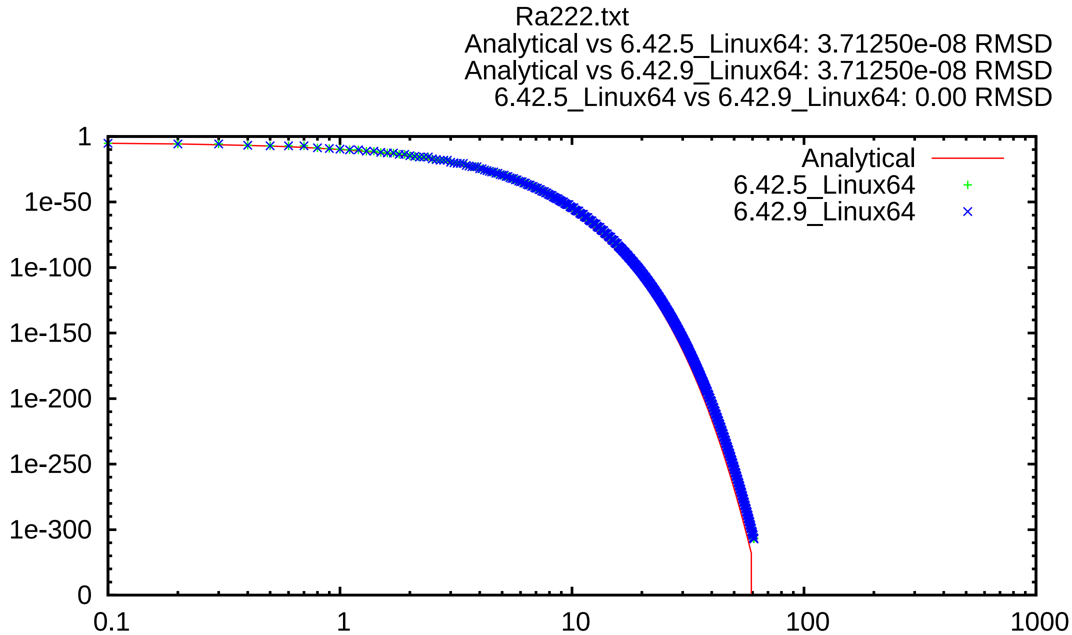

Figure 7.1.3: Comparison of PORFLOW to Bateman Solution - Ra222.

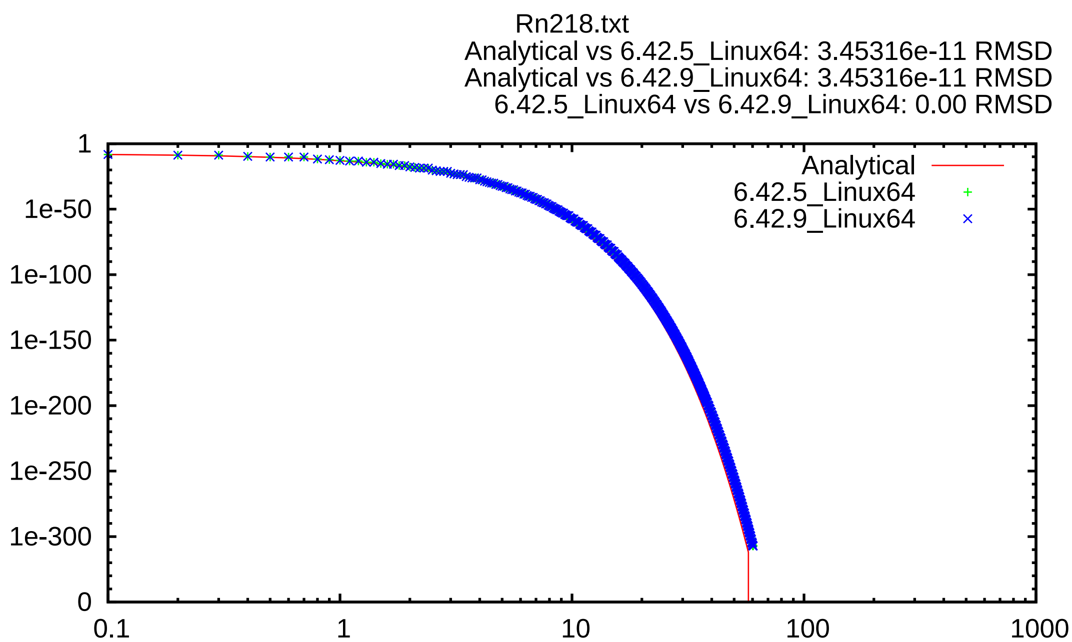

Figure 7.1.4: Comparison of PORFLOW to Bateman Solution - Rn218.

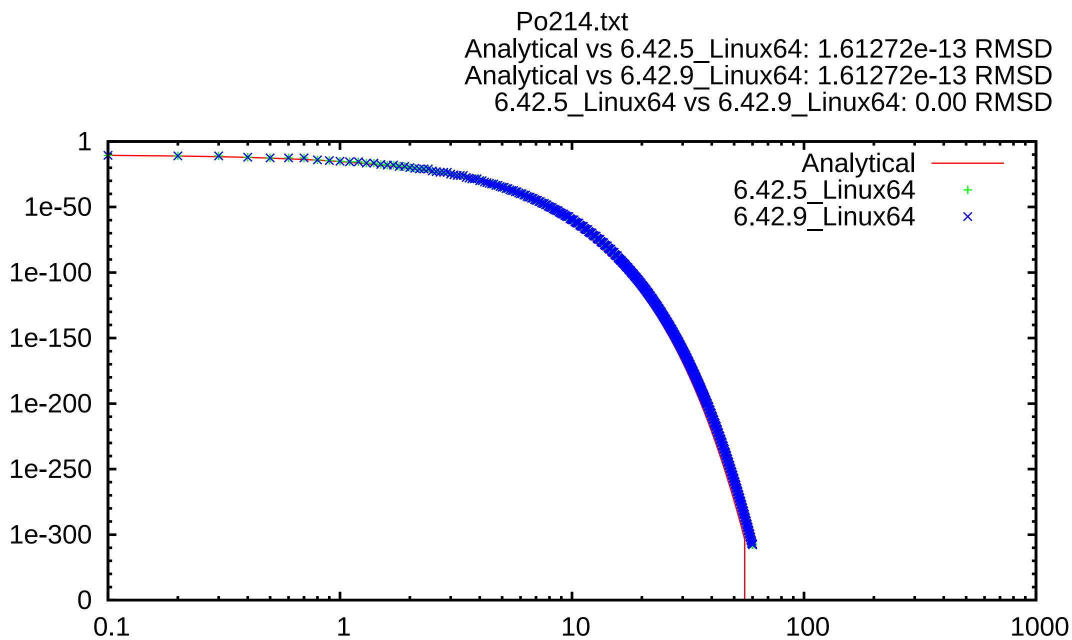

Figure 7.1.5: Comparison of PORFLOW to Bateman Solution - Po214.

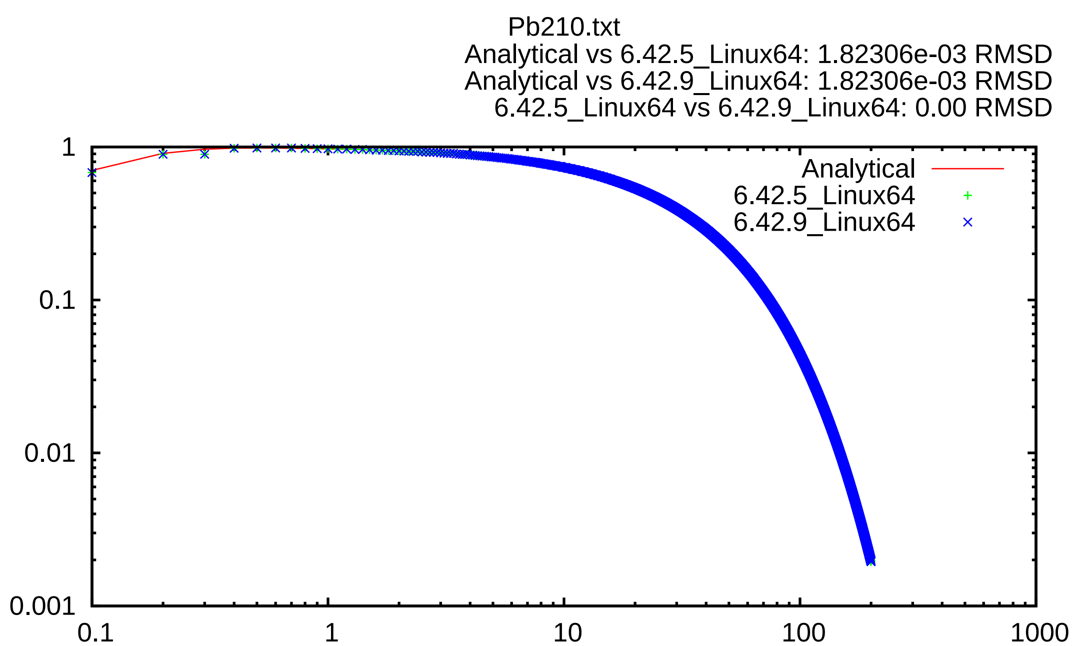

Figure 7.1.6: Comparison of PORFLOW to Bateman Solution - Pb210.

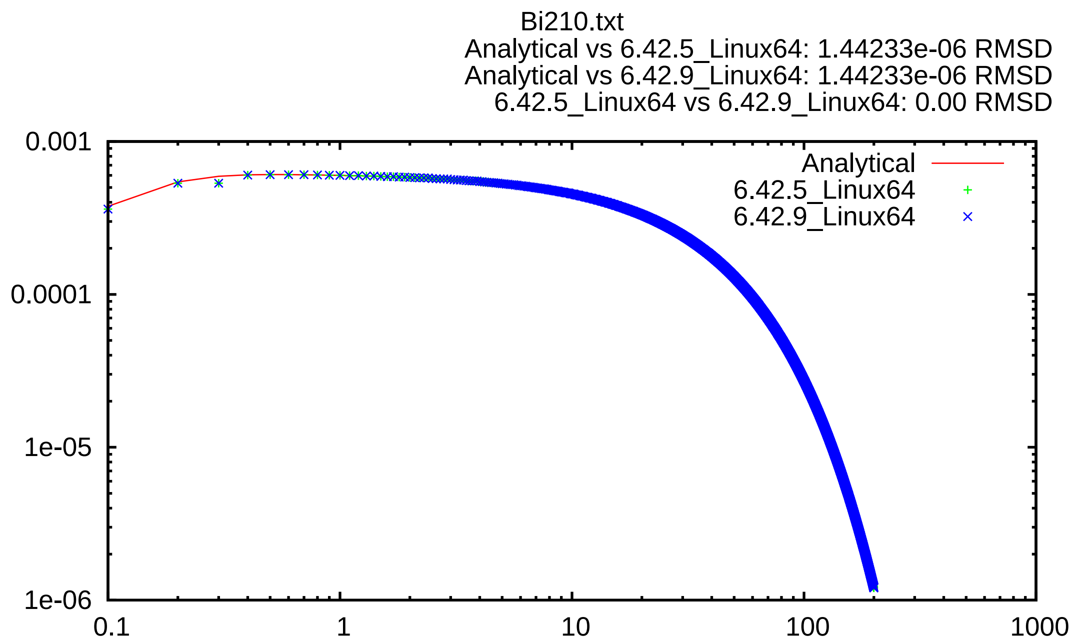

Figure 7.1.7: Comparison of PORFLOW to Bateman Solution - Bi210.

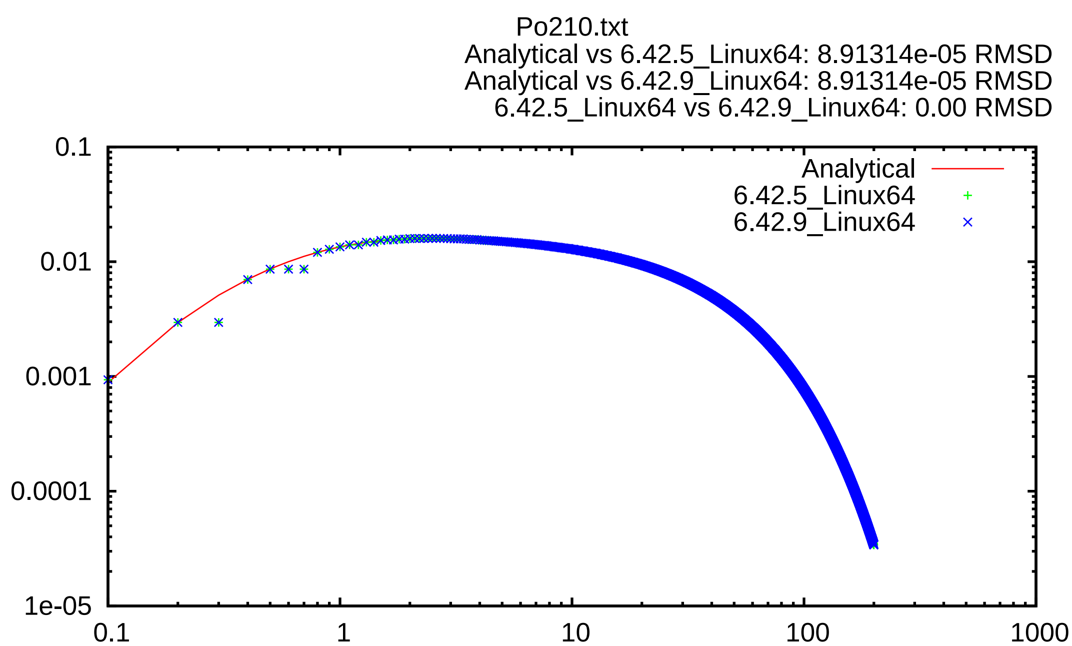

Figure 7.1.8: Comparison of PORFLOW to Bateman Solution - Po210.

7.2 Kd vs DIST and RETA

This problem completely replaces the previous test problems 7.2 and 7.3 (Aleman, 2007; Whiteside, 2007, 2008, 2010a,c,b). For further discussion of solubility controls see problem section 5.5, where the PROP TOTA and equivalent commands are compared with Kd.

This problem is a generic test to compare the Kd commands to the DIST and RETA commands to ensure they perform daughter ingrowth of a non-decaying daughter correctly. The physical layout of the problem is a 1000 cm (X) by 100 cm (Y) by 1 cm (Z) box with a downward Darcy velocity of 100cm/yr. The material has a porosity of 0.4 and a density of 2.6 g/cm3. The contaminant is located in a 1000 cm (X) by 10 cm (Y) by 1 cm (Z) source zone between 80 cm and 90 cm (Y). The contaminant is 1 mol of generic Parent, with a half -life of 1.e+5 years and a non-decaying Daughter. It has a Kd of 641,032.393040365 (this is by definition, in order to make the concentration of the parent, in the liquid phase, equal to 1E-10).

One mol of Parent contaminant at time 0 (A_0) is located within the source zone. As time progresses, water flows through the source zone, carrying away some amount of Parent (A_p), in addition the Parent is decaying into the Daughter (A_d). These values can be solved to describe the amount of parent at time (t). The amount of daughter generated within the contaminant zone is the product of the decay constant (λ) of the parent and the amount of parent (at time t). The aqueous concentration of the daughter moving through the bottom layer of the soil zone is determined by the daughter generation rate divided by the product of the Darcy velocity (U) and the area of the layer, Z, (1000 cm by 1 cm). C_sol is the aqueous concentration of the parent at the solubility limit.

The parent mass balance is

$$\frac{dA_p}{dt} = -UZC_{sol} - \lambda A_p \tag{7.2.1}$$

Rearranging gives

$$\frac{dA_p}{dt} + \lambda A_p = -UZC_{sol} \tag{7.2.2}$$

The general form of this problem is from (Beyer, 1984):

$$\frac{dy}{dx} + P(x)y = Q(x) \tag{7.2.3}$$

and the general solution is:

$$ye^{\int Pdx} = \int Qe^{\int Pdx}dx + C \tag{7.2.4}$$

Substituting this problem into the general solution gives

$$\begin{aligned} A_p e^{\int \lambda dt} &= \int -UZC_{sol} e^{\int \lambda dt} dt + C \\ A_p e^{\lambda t} &= -UZC_{sol} \int e^{\lambda t} dt + C \\ A_p e^{\lambda t} &= -UZC_{sol} \frac{e^{\lambda t}}{\lambda} + C \\ A_p &= \frac{-UZC_{sol}}{\lambda} + \frac{C}{e^{\lambda t}} \end{aligned} \tag{7.2.5}$$

At time = 0

$$\begin{aligned} A_0 &= -UZC_{sol} \frac{1}{\lambda} + C \\ C &= A_0 + \frac{(UZC_{sol})}{\lambda} \end{aligned} \tag{7.2.6}$$

By substitution and rearranging:

$$\begin{aligned} A_p &= \frac{-UZC_{sol}}{\lambda} + \frac{A_0 + \frac{UZC_{sol}}{\lambda}}{e^{\lambda t}} \\ A_p &= \frac{A_0 \lambda + UZC_{sol}(1 - e^{\lambda t})}{\lambda e^{\lambda t}} \end{aligned} \tag{7.2.7}$$

The daughter generation rate is

$$\frac{dA_d}{dt} = \lambda A_p \tag{7.2.8}$$

and the aqueous concentration of the Daughter is

$$C_d = \frac{\frac{dA_d}{dt}}{UZ} \tag{7.2.9}$$

This analytical equation gives us a constant value of 1E-10, for the concentration of the parent at the Boundary, after the first time step. For the daughter this concentration linearly decreases from a value of 6.93E-11 to 6.81E-11, over the time-scale of this problem (1000 years).

PORFLOW has several different methods to implement solubility control. This can be done by directly specifying the Kd; or it can be done through the use of DISTribution or RETArdation commands. The DISTribution command allows the user to either directly specify the distribution coefficient as a constant or with respect to the fluid concentration (mode 1) or it will compute the distribution coefficient based on a specified table of concentration in the fluid phase as a function of the concentration in the solid phase. The RETArdation command allows the user to either directly specify the retardation factor (which is a function of the distribution coefficient) as a constant or with respect to the fluid concentration (mode 1).

The DIST and RETA commands appear to correctly account for parent decay and progeny ingrowth of radionuclides in the solid phase. In addition, this command allows for solubility to be imposed on progeny in the source zone and parent and progeny outside the source zone.

7.2.1 Specify Kd explicitly

Listing 85 shows the PORFLOW input file for this problem. The parent Kd is explicitly set to 641032.393040365 to make the parent concentration in the liquid equal 1e-10. Figures 7.2.1 and 7.2.2 show the results of this calculation. The exact results are shown in Tables B.7.14 and B.7.15.

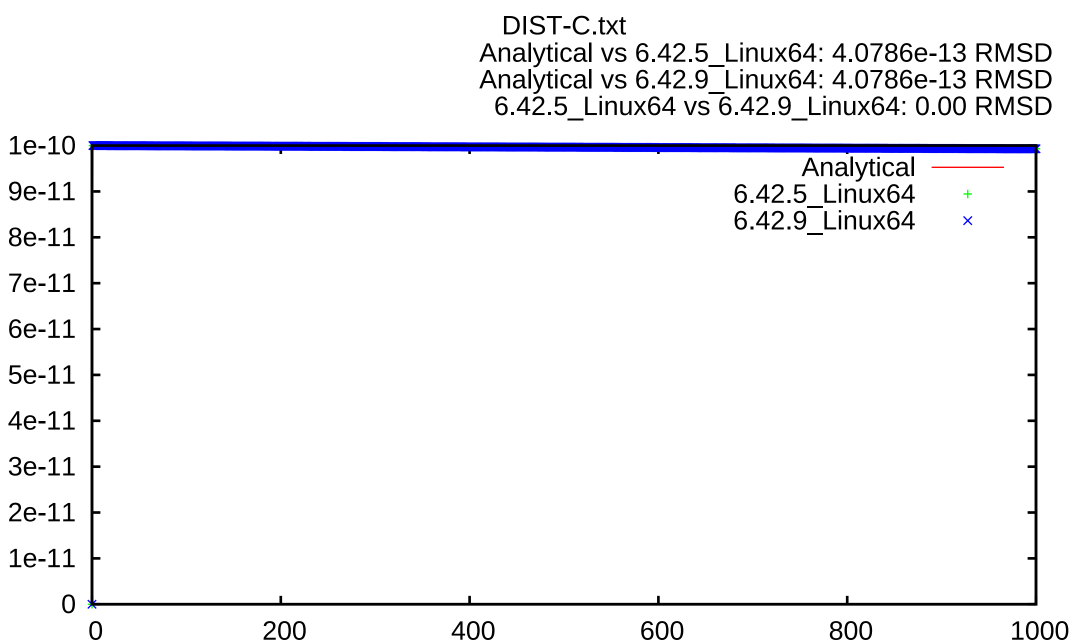

Figure 7.2.1: Parent Concentration.

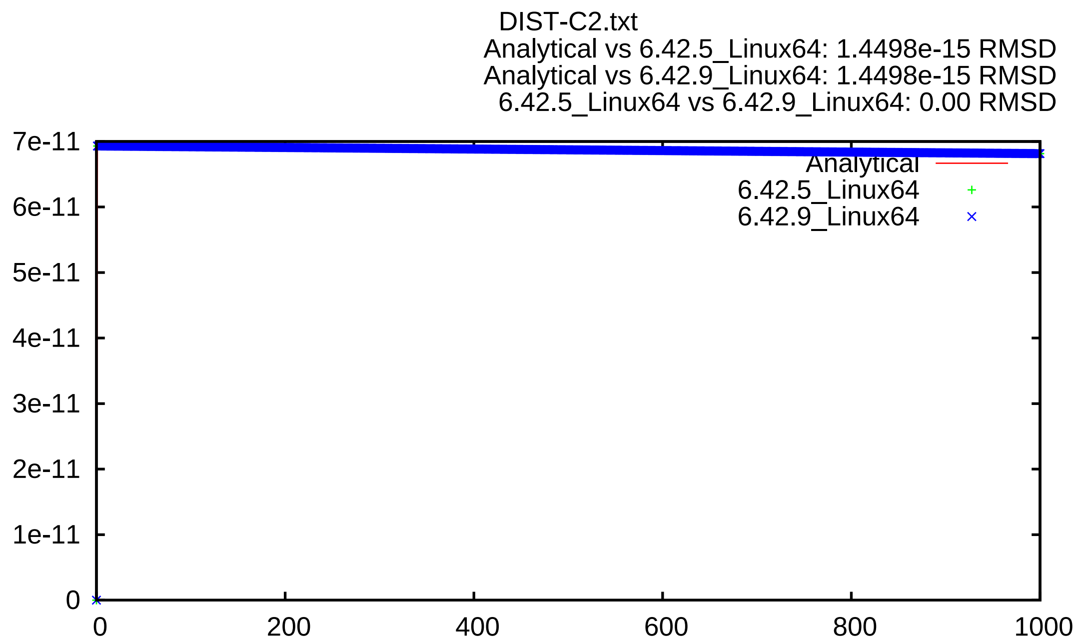

Figure 7.2.2: Daughter Concentration.

7.2.2 Use DIST mode 3 CONC TABLe

Listing 86 shows the PORFLOW input file for this problem.

The parent Kd is set to 0 and the DIST CONC TABLE command (mode 3), where each set of values takes the form of Cs, Cl and is used to force the parent concentration in the liquid equal 1e-10.

Figures 7.2.3 and 7.2.4 show the results. The exact results are shown in Tables B.7.16 and B.7.17.

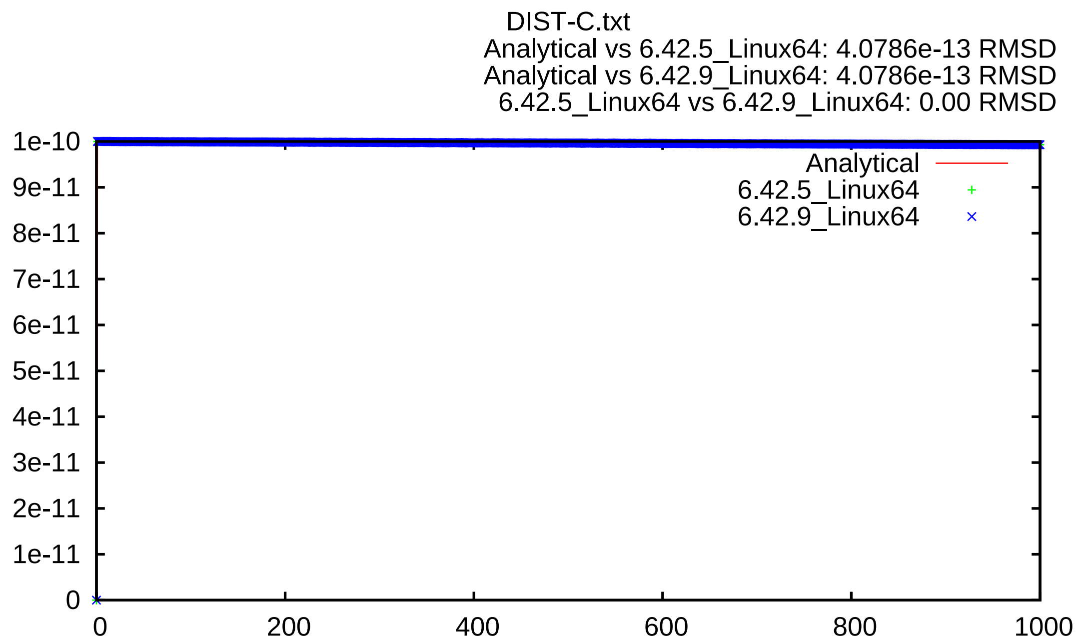

Figure 7.2.3: Parent Concentration.

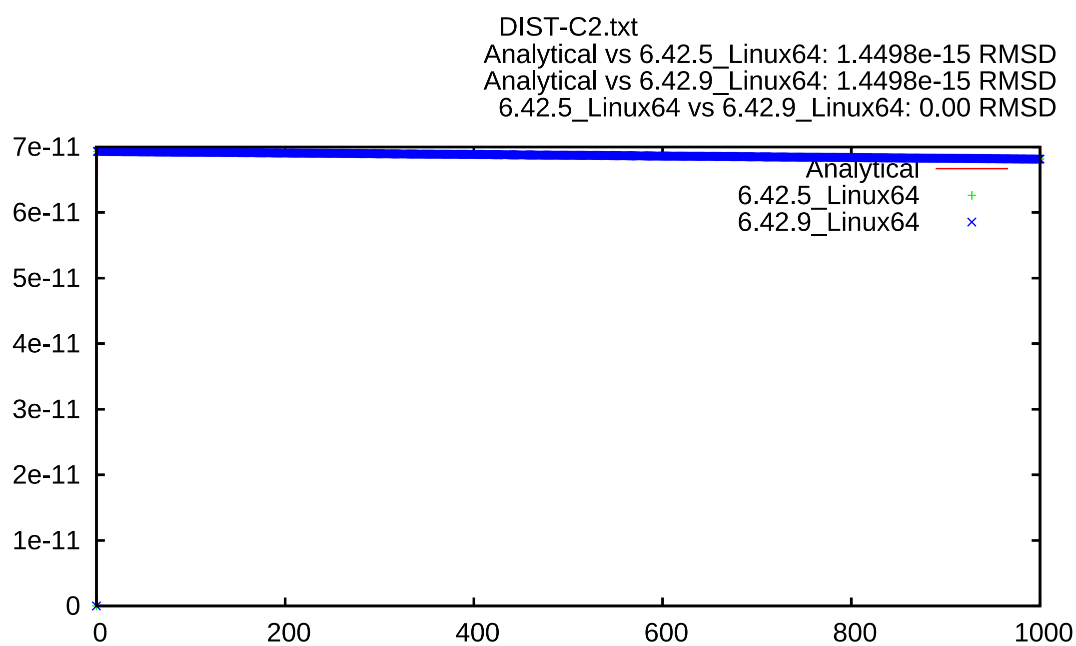

Figure 7.2.4: Daughter Concentration.

7.2.3 Use DIST mode 1

Listing 87 shows the PORFLOW input file for this problem.

The parent Kd is set to 0 and the DIST command (mode 1), is used to specify the Kd as 641032 to force the parent concentration in the liquid equal 1e-10.

Figures 7.2.5 and 7.2.6 show the results. The exact results are shown in Tables B.7.18 and B.7.19.

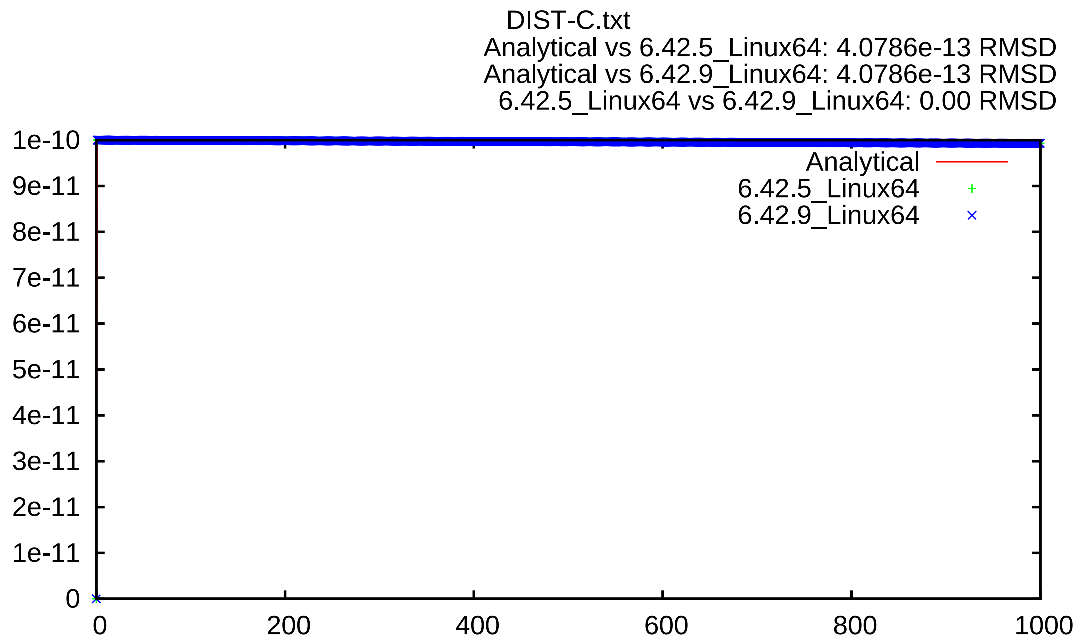

Figure 7.2.5: Parent Concentration.

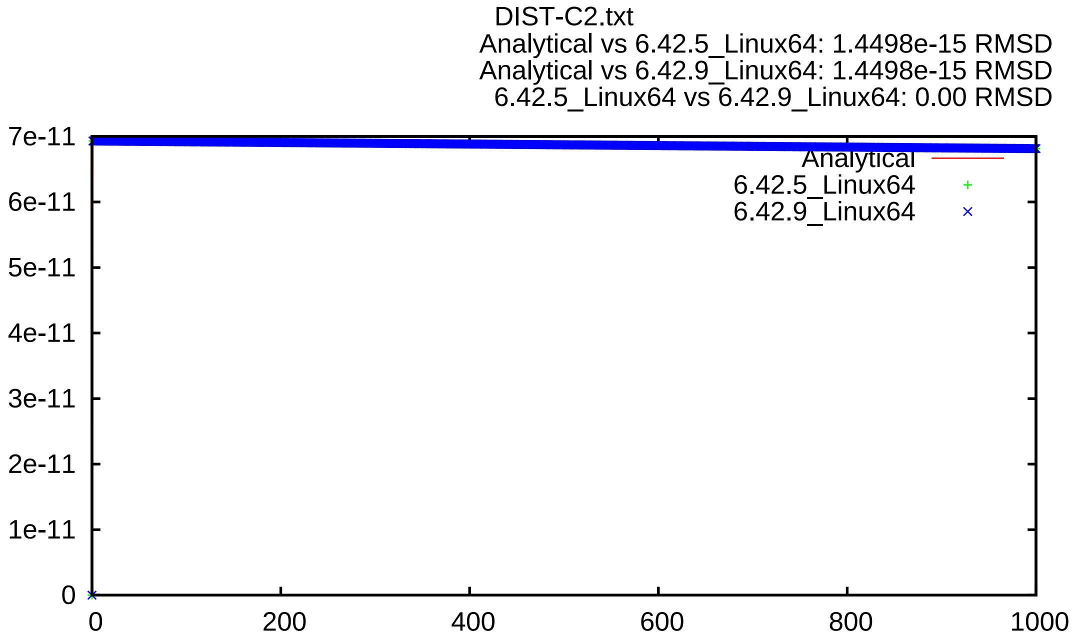

Figure 7.2.6: Daughter Concentration.

7.2.4 Use DIST mode 3 TABLe

Listing 88 shows the PORFLOW input file for this problem.

The parent Kd is set to 0 and the DIST TABLE command (mode 3) is used, where each set of values takes the form of Cl, Kd and is used to force the parent concentration in the liquid equal 1e-10.

Figures 7.2.7 and 7.2.8 show the results. The exact results are shown in Tables B.7.20 and B.7.21.

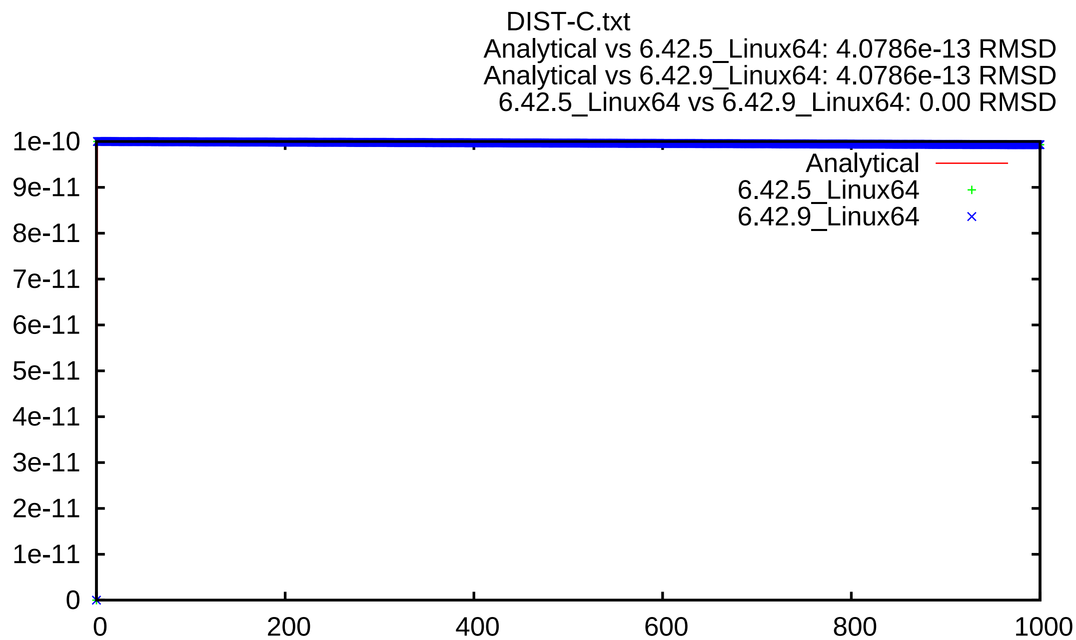

Figure 7.2.7: Parent Concentration.

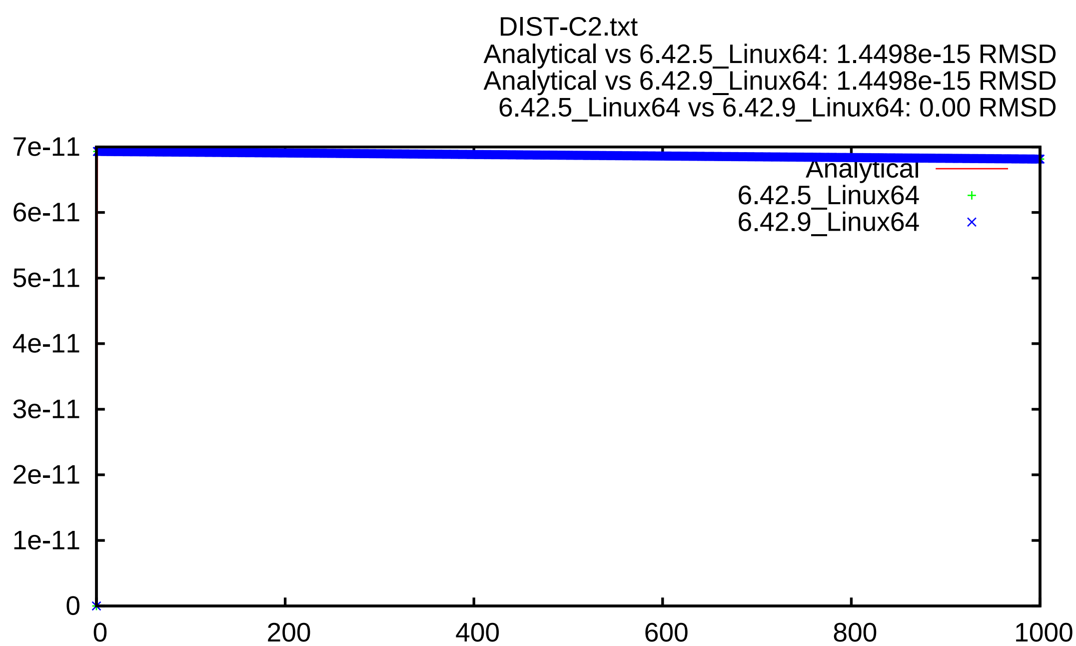

Figure 7.2.8: Daughter Concentration.

7.2.5 Use RETA mode 1

Listing 89 shows the PORFLOW input file for this problem.

The parent Kd is set to 0 and the RETA command (mode 1), is used to specify the Kd and is used to force the parent concentration in the liquid equal 1e-10.

Figures 7.2.9 and 7.2.10 show the results. The exact results are shown in Tables B.7.22 and B.7.23.

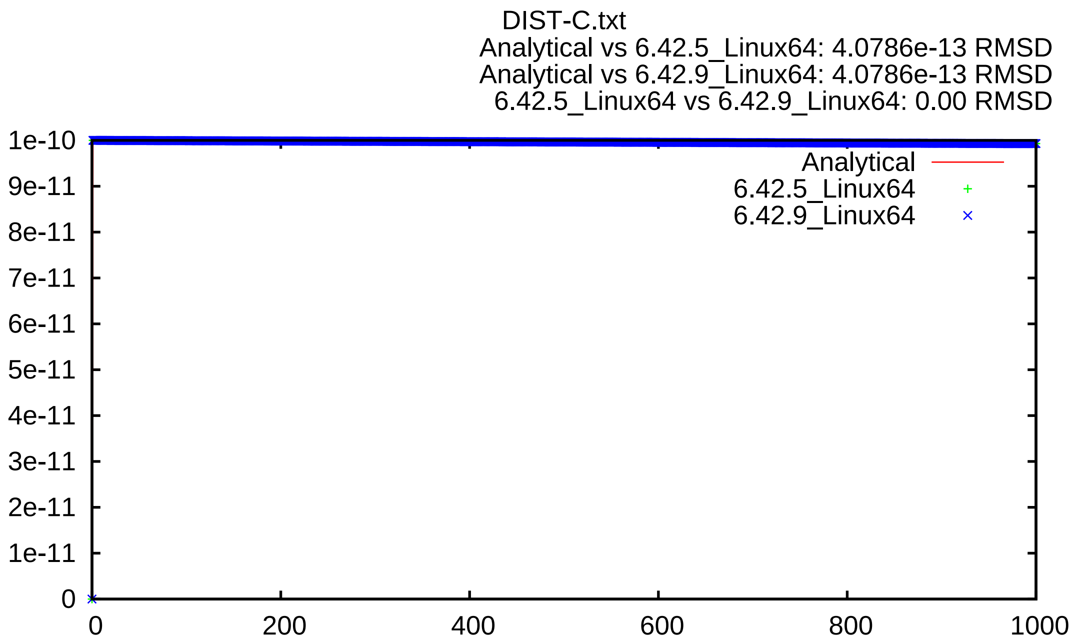

Figure 7.2.9: Parent Concentration.

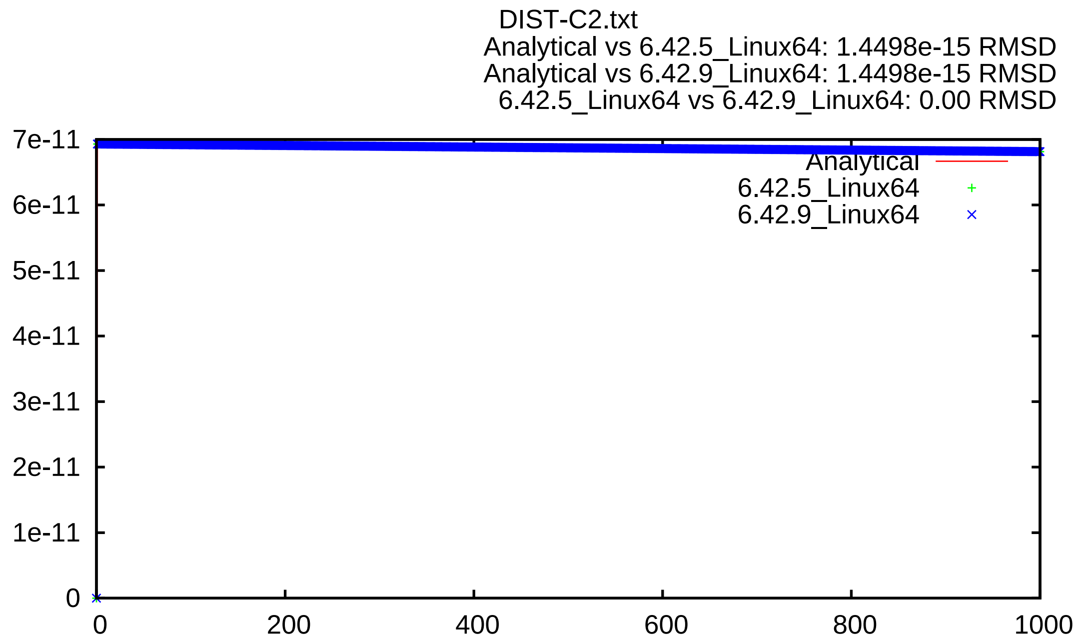

Figure 7.2.10: Daughter Concentration.

7.2.6 Use RETA mode 3 TABLe

Listing 90 shows the PORFLOW input file for this problem.

The parent Kd is set to 0 and the RETA TABLe command (mode 3) is used, where each set of values takes the form of Cl,Kd and is used to force the parent concentration in the liquid equal 1e-10.

Figures 7.2.11 and 7.2.12 show the results. The exact results are shown in Tables B.7.24 and B.7.25.

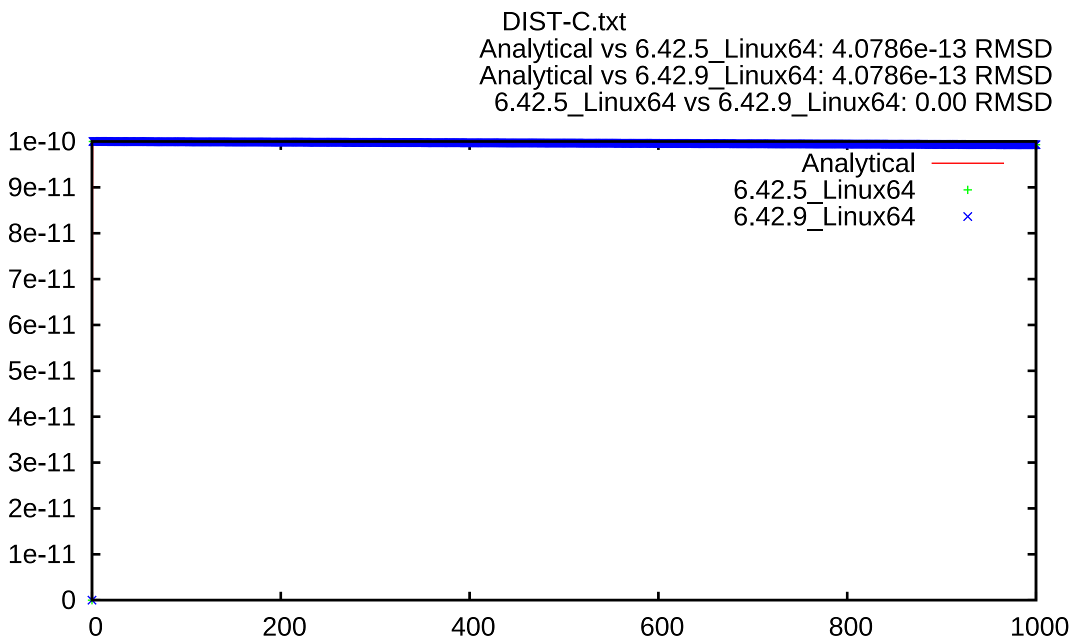

Figure 7.2.11: Parent Concentration.

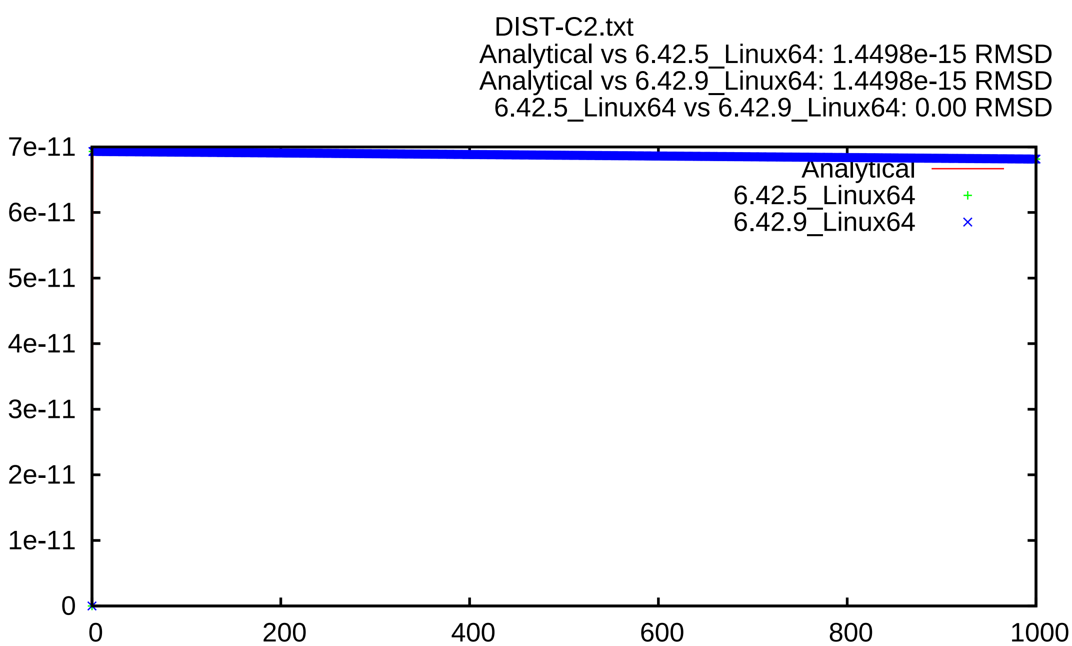

Figure 7.2.12: Daughter Concentration.

7.3 STATistics

The STATistics command provides a means to compute and obtain output of the statistics for an independent variable for a selected subregion.

Four tests were developed to test this command.

1. The first test determines the location of a specified point (SRCE).
2. The second test determines the maximum concentration within the entire computational domain (DOMAIN-STAT).
3. The third test determines the location of a defined subregion (RECT).
4. The fourth test determines the maximum concentration within the defined subregion (RECT-STAT).

These tests are binary and either PORFLOW will or will not give the correct result.

Listing 91 shows the PORFLOW input file for this problem.

Both versions of PORFLOW give the correct results for all four tests.

7.4 PROPerty

The PROPerty command specifies the mode of calculation of fluid or material properties at an interface between two elements, where the properties are known at the element centroid nodes. Three averaging methods are available through the PROPerty keyword modifiers: ARIThmetic, GEOMetric, and HARMonic (default).

Each of the averaging equations computes the property value at the face v_f from the values at the centroids (v_1 and v_2) where the values at the centroids may be modified by a weight, w_i. By default the weights are

$$w_i = \frac{1}{ds_i} \tag{7.4.1}$$

where ds_i is the distance between the center of the cell i and the interface between two cells. That is, the values are weighted by proximity of the centroid to the interface. Alternatively, cell values can be weighted by the proportion of cell i between two cells using the TRAV modifier:

$$w_i = ds_i \tag{7.4.2}$$

TRAV weighting was first implemented in PORFLOW v6.42.4 in conjunction with HARMonic averaging. Subsequent versions of PORFLOW are expected to also offer TRAV weighting for ARIThmetic and GEOMetric averaging. For informational purposes the results from including the TRAV modifier with these methods are included below.

Figure 7.4.1 illustrates the physical problem chosen for testing the averaging methods when applied to material properties. The left and right regions have lengths of 9 and 1 respectively, for a total domain length of 10. The hydraulic gradient is set to 1.0 so that the Darcy velocity is equal to the effective hydraulic conductivity of the medium:

$$U = K_{eff} \tag{7.4.3}$$

Thus in numerical simulations, the observed Darcy velocity is taken as the simulated effective hydraulic conductivity for the specified geometry. The numerical test involves a two cell, one-dimensional flow case with the left cell having a size of 9 and the right cell having a size of 1, consistent with the two physical regions. Because the two cells have different sizes, the default and TRAV weights are different.

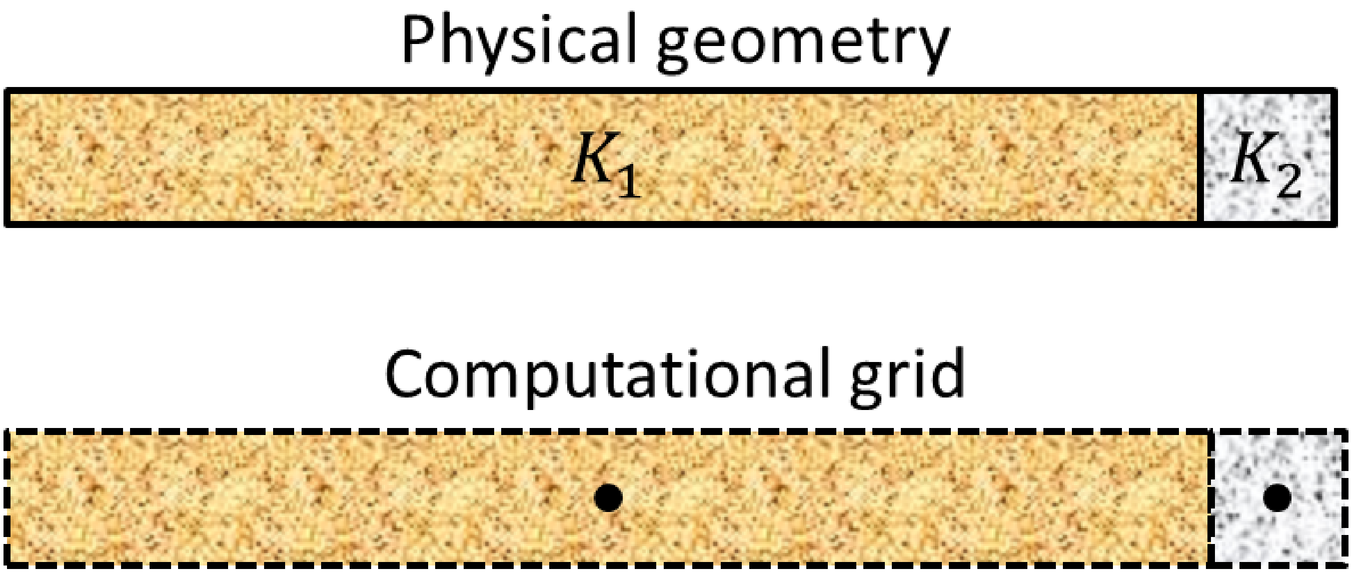

Figure 7.4.1: Physical and Computational model for problem 7.4

For each averaging method, four combinations of hydraulic conductivity are tested:

- $K_1 = 1$, $K_2 = 1$
- $K_1 = 1$, $K_2 = 10$
- $K_1 = 10$, $K_2 = 1$
- $K_1 = 10$, $K_2 = 10$

7.4.1 ARIThmetic

The ARIThmetic option calculates the weighted arithmetic mean at the interface through the following equation:

$$v_{face} = \frac{w_1 v_1 + w_2 v_2}{w_1 + v_2} \tag{7.4.4}$$

The results using the default weighting scheme, Equation (7.4.1), can be seen in Table 7.4.1. Listing 92 shows the PORFLOW input file for this problem.

Table 7.4.1: Comparison of the Analytical results for K_{eff}(ft/day) to PORFLOW for problem 7.4.1

$K_1\_K_2$	*Analytical*	$P_{6.42.5}$	$P_{6.42.9}$
1_1	1.000000E+00	1.000000E+000	1.000000E+000
1_10	1.960996E+00	1.960996E+000	1.960996E+000
10_1	2.792065E+00	2.792065E+000	2.792065E+000
10_10	1.000000E+01	1.000000E+001	1.000000E+001

The results using the TRAV weighting scheme, Equation (7.4.2), can be seen in Table 7.4.2. Listing 93 shows the PORFLOW input file for this problem.

Table 7.4.2: Comparison of the Analytical results for K_{eff}(ft/day) to PORFLOW for problem 7.4.1

$K_1\_K_2$	*Analytical*	$P_{6.42.5}$	$P_{6.42.9}$
1_1	1.000000E+00	1.000000E+000	1.000000E+000
1_10	1.392451E+00	1.392451E+000	1.392451E+000
10_1	6.669110E+00	6.669110E+000	6.669110E+000
10_10	1.000000E+01	1.000000E+001	1.000000E+001

7.4.2 GEOMetric

The GEOMetric option calculates the weighted geometric mean at the interface through the following equation:

$$v_{face} = \exp\left(\frac{w_1 ln(v_1) + w_2 ln(v_2)}{w_1 + w_2}\right) \tag{7.4.5}$$

The results using the default weighting scheme, Equation (7.4.1), can be seen in Table 7.4.3. Listing 94 shows the PORFLOW input file for this problem.

Table 7.4.3: Comparison of the Analytical results for K_{eff}(ft/day) to PORFLOW for problem 7.4.2

K_1_K_2	*Analytical*	$P_{6.42.5}$	$P_{6.42.9}$
1_1	1.000000E+00	1.000000E+000	1.000000E+000
1_10	1.930702E+00	1.930702E+000	1.930702E+000
10_1	2.031843E+00	2.031843E+000	2.031843E+000
10_10	1.000000E+01	1.000000E+001	1.000000E+001

The results using the TRAV weighting scheme, Equation (7.4.2), can be seen in Table 7.4.4. Listing 95 shows the PORFLOW input file for this problem.

Table 7.4.4: Comparison of the Analytical results for K_{eff}(ft/day) to PORFLOW for problem 7.4.2

K_1_K_2	*Analytical*	$P_{6.42.5}$	$P_{6.42.9}$
1_1	1.000000E+00	1.000000E+000	1.000000E+000
1_10	1.173483E+00	1.173483E+000	1.173483E+000
10_1	6.331267E+00	6.331267E+000	6.331267E+000
10_10	1.000000E+01	1.000000E+001	1.000000E+001

7.4.3 HARMonic

The HARMonic option calculates the weighted harmonic mean at the interface through the following equation:

$$v_{face} = \left(\frac{w_1(v_1)^{-1} + w_2(v_2)^{-1}}{w_1 + w_2} \right)^{-1} \tag{7.4.6}$$

The results using the default weighting scheme, Equation (7.4.1), can be seen in Table 7.4.5. Listing 96 shows the PORFLOW input file for this problem.

Table 7.4.5: Comparison of the Analytical results for K_{eff}(ft/day) to PORFLOW for problem 7.4.3

K_1_K_2	*Analytical*	$P_{6.42.5}$	$P_{6.42.9}$
1_1	1.000000E+00	1.000000E+000	1.000000E+000
1_10	1.818182E+00	1.818182E+000	1.818182E+000
10_1	1.818182E+00	1.818182E+000	1.818182E+000
10_10	1.000000E+01	1.000000E+001	1.000000E+001

The results using the TRAV weighting scheme, Equation (7.4.2), can be seen in Table 7.4.6. Listing 97 shows the PORFLOW input file for this problem.

Table 7.4.6: Comparison of the Analytical results for K_{eff}(ft/day) to PORFLOW for problem 7.4.3

K_1_K_2	*Analytical*	$P_{6.42.5}$	$P_{6.42.9}$
1_1	1.000000E+00	1.000000E+000	1.000000E+000
1_10	1.098901E+00	1.098901E+000	1.098901E+000
10_1	5.263158E+00	5.263158E+000	5.263158E+000
10_10	1.000000E+01	1.000000E+001	1.000000E+001

7.5 HISTory Binary Output

To reduce storage and speed-up input and output, a HISTory command option (UNFORMatted STREAm) was added in PORFLOW version 6.42.9 to produce binary-formatted output. This output produces just the data structure with 16-decimal precision in a binary format. This data was converted to ASCII data, rounded to 8-decimal precision and compared with the original ASCII output produced by the PORFLOW HISTory command (which is 8-decimal precision).

Listing 98 shows the PORFLOW input file for this problem.

Table 7.5.1 shows the results of the comparison between the ASCII and Binary-to-ASCII results for the two PORFLOW versions.

Table 7.5.1: Output for Problem 7.6

$P_{6.42.5}$	$P_{6.42.9}$
FAIL	PASS

8 Group 5: System

This section deals with the PORFLOW system. This includes the output file format and communicating with PORFLOW through the various types of compute nodes.

8.1 Binary Output

In versions of PORFLOW prior to 6.42.5 the OUT file has binary (non-ASCII) data in the "Licensed System" line of the header. This issue was corrected in PORFLOW 6.42.5. The PORFLOW input command and file that shows this correction are in Listing 99.

However, if the TITLe variable of a PORFLOW input file is not defined, binary data was still output in PORFLOW versions prior to 6.42.9, this has now been corrected. The input files that show this are in Listings 100 and 101.

The results using the different versions of PORFLOW can be seen in Table 8.1.1. ofile1.inp is now correct. ofile2.inp does not have the TITLe keyword specified. ofile3 is identical to ofile2, but with a TITLe command.

Table 8.1.1: Comparison of the output of different files for problem 8.1

file	*Expected*	$P_{6.42.5}$	$P_{6.42.9}$
ofile1.inp	ASCII English text	ASCII English text	ASCII English text
ofile2.inp	ASCII English text	data	ASCII English text
ofile3.inp	ASCII English text	ASCII English text	ASCII English text

8.2 Compute Node check

In versions of PORFLOW prior to 6.42.5, there were communication issues with the license server. These issues have been resolved.

9 References

Abramowitz, M. and Stegun, I. (1970). *Handbook of Mathematical Functions*. National Bureau of Standards.

ACRI (1994). *Validation Version 2.50*. Analytical and Computational Research, Inc., California.

Aleman, S. E. (2007). Porflow testing and verification document. Technical Report WSRC-STI-2007-00150, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Aleman, S. E. and Flach, G. P. (2010). Acceptance testing for porflow version 6.30.1. Technical Report SRNL-L6200-2010-00016, Savannah River National Laboratory, Savannah River Site.

Anderson, P. F. (1993). A manual of instructional problems for the u.s.g.s. modflow model. Technical Report EPA/600/R-93/010, Environmental Protection Agency, 123 RTP NC.

Bateman, H. (1910). The solution of a system of differential equations occurring in the theory of radio-active transformations. *Proceedings Cambridge Phil Society*, 16:423.

Beyer, W. H., editor (1984). *CRC Standard Mathematical Tables*. CRC Press, 27th edition.

Butcher, B. T. (2013). Software classification document for srnl performance assessments porflow. Technical Report G-SWCD-A-00063 rev 3, Savannah River National Laboratory, Savannah River Site.

COMSOL (2006). COMSOL multiphysics: Earth science module, version 3.3.

de Marsily, G. (1986). *Quantitative Hydrogeology*. Academic Press, Inc.

Faust, C. R., Sims, P. N., Spalding, C. P., Anderson, P. F., Lester, B. H., Shupe, M. G., and Harrover, A. (1993). *FTWORK: Groundwater Flow and Solute Transport in Three Dimensions, Documentation, Version 12.9*. GeoTrans, Inc, Sterling, Virginia 20166.

Flach, G. P. (2015). Velocity field calculation for non-orthogonal numerical grids. Technical Report SRNL-STI-2015-00115, Savannah River National Laboratory, Savannah River Site, Aiken SC, 29808.

Freeze, R. A. and Cherry, J. A. (1979). *Groundwater*. Prentice-Hall, Englewood Cliffs, New Jersey.

Grobner, W. and Hofreiter, N., editors (1950). *Integraltafel*, volume 2. Springer.

Hamm, L. L. and Aleman, S. E. (2000). *FACT (Version 2.0) Subsurface Flow and Contaminant Transport Documentation and Users Guide (U)*. Westinghouse Savannah River Company.

Hantush, M. S. and Jacob, C. E. (1955). Non-steady radial flow in an infinite leaky aquifer. *Am. Geophys. Union Trans.*, 36:95–100.

Hantush, M. S. and Thomas, R. G. (1966). A method for analyzing a drawdown test in anisotropic aquifers. *Water Resources*, 2(2):281–285.

Moutsopoulos, K. N. (2010). The analytical solution of the boussinesq equation for flow induced by a step change of the water table. *Transport in Porous Media*, 85(3):919–940.

Ogata, A. and Banks, R. B. (1961). A solution of the differential equation of longitudinal dispersion in a porous media. Technical Report Professional Paper 411-A, U.S. Geological Survey, 123 Boulder Colorado.

Perlmutter, N. M. and Lieber, M. (1970). Dispersion of plating wastes and sewage contaminants in groundwater and surface water south farmingdale-massapequa area, nassau county, new york. Technical Report Water Supply Paper 1879-G, U.S. Geological Survey, Colorado.

Polubarinova-Kochina, P. (1962). *Theory of Ground Water Movement*. Princeton University Press, Princeton, New Jersey.

Theis, C. V. (1935). The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage. In *Transactions of the American Geophysical Union, Ann. Meet.*, 16, pages 519–524.

van Genuchten, M. T. (1980). A closed-form equation for predicting the hydraulic conductivity of unsaturated soils. *Soil Science Society of America Journal*, 44:892–898.

Whiteside, T. (2007). Software testing and verification for PORFLOW version 6.10.3. Technical Report G-TR-G-00002, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Whiteside, T. (2008). Software testing and verification for PORFLOW. Technical Report SRNS-TR-2008-00003, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Whiteside, T. (2010a). Software testing and verification of PORFLOW 6.21.0. Technical Report SRNL-TR-2010-00023, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Whiteside, T. (2010b). Software testing and verification of PORFLOW 6.30.1 and 6.30.2. Technical Report SRNL-TR-2010-000213, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Whiteside, T. (2010c). Software testing and verification of PORFLOW versions 6.30.0 and 6.30.1. Technical Report SRNL-TR-2010-00195, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Whiteside, T. (2016a). PORFLOW 6.42.3 testing and verification document. Technical Report SRNL-STI-2016-00724, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Whiteside, T. (2016b). PORFLOW testing and verification document. Technical Report SRNL-STI-2016-00012, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Whiteside, T. (2017a). PORFLOW 6.42.4 testing and verification document. Technical Report

SRNL-STI-2017-00167, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Whiteside, T. (2017b). PORFLOW 6.42.5 testing and verification document. Technical Report SRNL-STI-2017-00294, Rev. 0., Savannah River National Laboratory, Savannah River Site, Aiken SC.

Wilson, J. L. and Miller, P. J. (1978). Two-dimensional plume in uniform ground-water flow. *Journal of the Hydraulics Division, American Society Civil Engineers*, pages 104, HY4.

Yeh, G. T. (1981). AT123D: Analytical transient one-, two-, and three-dimensional simulation of transport in the aquifer system. Technical Report ORNL-5602, Oak Ridge National Laboratory, Oak Ridge, TN.

Appendix A Input Files

A.4 Flow

Listing 2: Input Commands for Problem 4.1.1-25

```
!**********************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 1)
!**********************************************************************
! General Head boundary condition
!**********************************************************************

GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 50.
BOUNdary condition for P: X+, MIXEd FLUX type: value=25. CL=0.001
BOUNdary condition for P: Y-, FLUX = 0.
BOUNdary condition for P: Y+, FLUX = 0.


! Solution controls
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P to '4.1.1-25.sav' NOW

END
```

Listing 3: Input Commands for Problem 4.1.1-50

```
!**********************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 1)
!**********************************************************************
! General Head boundary condition
!**********************************************************************

GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 50.
BOUNdary condition for P: X+, MIXEd FLUX type: value=50. CL=0.001
BOUNdary condition for P: Y-, FLUX = 0.
BOUNdary condition for P: Y+, FLUX = 0.


! Solution controls
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P to '4.1.1-50.sav' NOW

END
```

Listing 4: Input Commands for Problem 4.1.1-100

```
!**********************************************************************
```

```
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 1)
!***********************************************************************
! General Head boundary condition
!***********************************************************************

GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 50.
BOUNdary condition for P: X+, MIXEd FLUX type: value=100. CL=0.001
BOUNdary condition for P: Y-, FLUX = 0.
BOUNdary condition for P: Y+, FLUX = 0.


! Solution controls
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P to '4.1.1-100.sav' NOW

END
```

Listing 5: Input Commands for Problem 4.1.2-41

```
!***********************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 2)
!***********************************************************************
! River boundary condition
!***********************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 41.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e-2), (75.,2.5e-2), (300.,-0.2) ! River BC
BOUNdary condition for P: Y-, FLUX = 0.
BOUNdary condition for P: Y+, FLUX = 0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-41.sav' NOW

END
```

Listing 6: Input Commands for Problem 4.1.2-45

```
!***********************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 2)
!***********************************************************************
! River boundary condition
!***********************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES
```

```
GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 45.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e-2), (75.,2.5e-2), (300.,-0.2) ! River BC
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-45.sav' NOW

END
```

Listing 7: Input Commands for Problem 4.1.2-50

```
!*******************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 2)
!*******************************************************************
! River boundary condition
!*******************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 50.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e-2), (75.,2.5e-2), (300.,-0.2) ! River BC
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-50.sav' NOW

END
```

Listing 8: Input Commands for Problem 4.1.2-60

```
!*******************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 2)
!*******************************************************************
! River boundary condition
!*******************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially
```

```
BOUNdary condition for P: X-, VALUe = 60.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e-2), (75.,2.5e-2), (300.,-0.2) ! River BC
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-60.sav' NOW

END
```

Listing 9: Input Commands for Problem 4.1.2-75

```
!**********************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 2)
!**********************************************************************
! River boundary condition
!**********************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 75.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e-2), (75.,2.5e-2), (300.,-0.2) ! River BC
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-75.sav' NOW

END
```

Listing 10: Input Commands for Problem 4.1.2-90

```
!**********************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 2)
!**********************************************************************
! River boundary condition
!**********************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 90.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e-2), (75.,2.5e-2), (300.,-0.2) ! River BC
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.

! Solution controls
```

```
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E−8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-90.sav' NOW

END
```

Listing 11: Input Commands for Problem 4.1.2-100

```
!*********************************************************************
TITLe 4.1 Steady−state, 1−D Flow in a Confined Aquifer (Problem 2)
!*********************************************************************
! River boundary condition
!*********************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X−, VALUe = 100.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e−2), (75.,2.5e−2), (300.,−0.2) ! River BC
BOUNdary condition for P: Y−, FLUX = 0.
BOUNdary condition for P: Y+, FLUX = 0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E−8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-100.sav' NOW

END
```

Listing 12: Input Commands for Problem 4.1.2-110

```
!*********************************************************************
TITLe 4.1 Steady−state, 1−D Flow in a Confined Aquifer (Problem 2)
!*********************************************************************
! River boundary condition
!*********************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X−, VALUe = 110.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e−2), (75.,2.5e−2), (300.,−0.2) ! River BC
BOUNdary condition for P: Y−, FLUX = 0.
BOUNdary condition for P: Y+, FLUX = 0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E−8, 100 outer iterations

DIAGnostic node (201,2) every 1 step
```

```
SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-110.sav' NOW

END
```

Listing 13: Input Commands for Problem 4.1.2-140

```
!**********************************************************************
TITLe 4.1 Steady-state, 1-D Flow in a Confined Aquifer (Problem 2)
!**********************************************************************
! River boundary condition
!**********************************************************************


GRID is 201 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 140.
BOUNdary condition for P: X+, FLUX: TABLe of values: 3 sets (P,value)
  (0.,2.5e-2), (75.,2.5e-2), (300.,-0.2) ! River BC
BOUNdary condition for P: Y-, FLUX = 0.
BOUNdary condition for P: Y+, FLUX = 0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-8, 100 outer iterations

DIAGnostic node (201,2) every 1 step

SOLVe P in STEAdy mode: max=500, min=500
SAVE P U V to '4.1.2-140.sav' NOW

END
```

Listing 14: Input Commands for Problem 4.2.1

```
!**********************************************************************
TITLe 4.2 Steady-state, 1-D Flow in a an Unconfined Aquifer (Problem 1)
!**********************************************************************
! No recharge
!**********************************************************************

GRID is 101 by 61 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=1.e+2
COORdinate NODEs Y: MINImum=0.0, MAXImum=6.e+1

GRAVity 0. -1. 0.

!PROPerties: GEOMetric
PROPerties UPWInd
MATErial POROsity 0.43
HYDRaulic properties S = 0., Kx = 1.e-3 ft/s, Ky = 1.e-3 ft/s
MULTiphase VAN Genuchten MUALem: n=3.0, alpha=4.572, Sr=0.104651162 ! Sand Soil
!MULTiphase VAN Genuchten MUALem: n=1.6, alpha=1.2192, Sr=0.186046511 ! Loam Soil
!MULTiphase VAN Genuchten MUALem: n=1.1, alpha=0.3048, Sr=0.250000000 ! Clay Soil

SET P = 0 everywhere initially

LOCAte subregion ID=LHEAD for COORdinates (-0.5,-0.5) to (0.5,40.5)   select BOUNdary
LOCAte subregion ID=LFLUX for COORdinates (-0.5,40.5) to (0.5,60.5)   select BOUNdary

LOCAte subregion ID=RHEAD for COORdinates (99.5,-0.5,) to (100.5,20.5) select BOUNdary
LOCAte subregion ID=RFLUX for COORdinates (99.5,20.5,) to (100.5,60.5) select BOUNdary

BOUNdary condition for P: VALUe is LINEar function (40.) (-1)(Y) at ID=LHEAD
BOUNdary condition for P: FLUX = 0. at ID=LFLUX
!BOUNdary condition for P: X-, VALUe is LINEar function (40.) (-1)(Y)

BOUNdary condition for P: VALUe is LINEar function (20.) (-1)(Y) at ID=RHEAD
BOUNdary condition for P: FLUX = 0. at ID=RFLUX
!BOUNdary condition for P: X+, VALUe is LINEar function (20.) (-1)(Y)

BOUNdary condition for P: Y-, FLUX = 0.
BOUNdary condition for P: Y+, FLUX = 0.
```

```
! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-6, 100 outer iterations

DIAGnostic P node (100,60) every 1 step

RELAX S 0.01

SOLVe P in STEAdy mode: max=200, min=200
SAVE P H to '4.2.1.sav' NOW

END
```

Listing 15: Input Commands for Problem 4.2.2

```
!*********************************************************************
TITLe 4.2 Steady-state, 1-D Flow in a an Unconfined Aquifer (Problem 2)
!*********************************************************************
! recharge and dirichelet BC on right boundary
!*********************************************************************

!DEFINE VARIABLES
DEFIne INIT = 0      ! =0 ==> H SET TO 0, =1 ==> Restart

GRID is 165 by 25 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=1.64e+3
COORdinate NODEs Y: MINImum=0.0, MAXImum=2.40e+2

GRAVity 0. -1. 0.

PROPerties: UPWInd
MATErial POROsity 0.43
HYDRaulic properties S = 0., Kx = 3.28 ft/d, Ky = 3.28 ft/d
MULTiphase VAN Genuchten MUALem: n=3.0, alpha=4.572,  Sr=0.104651162 ! Sand Soil
!MULTiphase VAN Genuchten MUALem: n=1.6, alpha=1.2192, Sr=0.186046511 ! Loam Soil
!MULTiphase VAN Genuchten MUALem: n=1.1, alpha=0.3048, Sr=0.250000000 ! Clay Soil

! Initial condition
SET P to 200
RELAX S 0.005

LOCAte subregion ID=LHEAD for COORdinates (-0.5,-0.5)  to (0.5,164.5)  select BOUNdary
LOCAte subregion ID=LFLUX for COORdinates (-0.5,164.5) to (0.5,240.5) select BOUNdary

BOUNdary condition for P: VALUe is LINEar function (164.) (-1)(Y) at ID=LHEAD
BOUNdary condition for P: FLUX  = 0. at ID=LFLUX
!BOUNdary condition for P: X-, VALUe is LINEar function (164.) (-1)(Y)
BOUNdary condition for P: X+, FLUX  = 0.

BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.0328

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-5, 100 outer iterations

DIAGnostic P node (164,60) every 1 step

SOLVe P in STEAdy mode: max=100, min=100
SAVE P H to '4.2.2.sav' NOW

END
```

Listing 16: Input Commands for Problem 4.3

```
*********************************************************************
TITLe 4.3 Steady-state, 2-D Flow through a heterogenous aquifer system
*********************************************************************

*********************************************************************

GRID is 51 by 106 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=1.0e+3
COORdinate NODEs Y: MINImum=0.0, MAXImum=2.1e+2

GRAVity 0. -1. 0.

!Material Specifications
```

```
!LOCAte subregion ID=MAT1 for COORdinates ( 0.,0.)  to (1000.,100.) output to "MAT1.loc"
!MATErial type  1 for subregion ID=MAT1
!LOCAte subregion ID=MAT2 for COORdinates (0.,100.) to (1000.,110.) output to "MAT2.loc"
!MATErial type  2 for subregion ID=MAT2
!LOCAte subregion ID=MAT3 for COORdinates (0.,110.) to (1000.,210.) output to "MAT3.loc"
!MATErial type  3 for subregion ID=MAT3

LOCAte ID=SAND1 COORdinates (0.,   0.) to (1000.,100.) output to 'MAT1.loc'
LOCAte ID=CLAY  COORdinates (0.,100.) to (1000.,110.) output to 'MAT2.loc'
LOCAte ID=SAND2 COORdinates (0.,110.) to (1000.,210.) output to 'MAT3.loc'

PROPerties: GEOMetric

DEFINE VRSN = V6200 !first version where things differ
INDENT ON
IF ( VRSN = V6103 ) THEN
   MATErial type  1 for subregion ID=MAT1
   MATErial type  2 for subregion ID=MAT2
   MATErial type  3 for subregion ID=MAT3

   FOR material type 1
   MATErial POROsity 0.3
   HYDRaulic properties S = 0., Kx = 1. ft/d, Ky = 1. ft/d
   MULTiphase VAN Genuchten MUALem: n=3.0, alpha=4.572,  Sr=0.104651162 ! Sand Soil

   FOR material type 2
   MATErial POROsity 0.3
   HYDRaulic properties S = 0., Kx = 1.142e-3 ft/d, Ky = 1.142e-3 ft/d
   MULTiphase VAN Genuchten MUALem: n=1.1, alpha=0.3048, Sr=0.250000000 ! Clay Soil

   FOR material type 3
   MATErial POROsity 0.3
   HYDRaulic properties S = 0., Kx = 1. ft/d, Ky = 1. ft/d
   MULTiphase VAN Genuchten MUALem: n=3.0, alpha=4.572,  Sr=0.104651162 ! Sand Soil
ELSE
   POROsity 0.3 ID=SAND1
   HYDRaulic properties  ID=SAND1 S = 0., Kx = 1. ft/d, Ky = 1. ft/d
   MULTiphase VAN Genuchten MUALem: n=3.0, alpha=4.572,  Sr=0.104651162 ID=SAND1

   POROsity 0.3 ID=CLAY
   HYDRaulic properties  ID=CLAY S = 0., Kx = 1.142e-3 ft/d, Ky = 1.142e-3 ft/d
   MULTiphase VAN Genuchten MUALem: n=1.1, alpha=0.3048, Sr=0.250000000  ID=CLAY

   POROsity 0.3 ID=SAND2
   HYDRaulic properties  ID=SAND2 S = 0., Kx = 1. ft/d, Ky = 1. ft/d
   MULTiphase VAN Genuchten MUALem: n=3.0, alpha=4.572,  Sr=0.104651162 ID=SAND2
ENDIF
INDENT OFF

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe is LINEar function (160.) (-1)(Y) at ID=SAND1
BOUNdary condition for P: X-, FLUX  = 0. at ID=CLAY
BOUNdary condition for P: X-, VALUe is LINEar function (170.) (-1)(Y) at ID=SAND2

BOUNdary condition for P: X+, VALUe is LINEar function (120.) (-1)(Y) at ID=SAND1
BOUNdary condition for P: X+, FLUX  = 0. at ID=CLAY
BOUNdary condition for P: X+, VALUe is LINEar function (130.) (-1)(Y) at ID=SAND2

BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.

DIAGnostic P DP BP RP node (100,210) every 1 step
SELECT subregion (1,1) to (999,999) in interval of (5,10)
OUTPUT U, V, P, S SELECTED subregion

! Solution controls
MATRix LUDE for P
MATRix ITERation 500

RELAx S 0.01
!RELAx S 1.0

CONVergence REFErence based on ALL: Tolerance = 1.E-6, 100 outer iterations

SOLVe P in STEAdy mode: max=300, min=300
SAVE P H to '4.3.sav' NOW

END
```

Listing 17: Input Commands for Problem 4.4.1

```
**************************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
**************************************************************************
```

```
**********************************************************************

DEFIne INIT=0

GRID is 21 by 21 NODEs
COORdinate NODEs BLOCK X,Y from file '4.4.xyz'

GRAVity 0. -1. 0.

PROPerties: GEOMetric

MATErial POROsity 0.3
HYDRaulic properties S = 1., Kx = 1. ft/d, Ky = 1. ft/d
MULTiphase VAN Genuchten MUALem: n=1.1, alpha=0.3048, Sr=0.250000000 ! Clay Soil

SET P = 0

BOUNdary condition for P: X-, VALUe is LINEar function (80.) (-1)(Y)
BOUNdary condition for P: X+, VALUe is LINEar function (50.) (-1)(Y)

BOUNdary condition for P: Y-, FLUX = 0.
BOUNdary condition for P: Y+, FLUX: TABLe of values: 13 sets (P,value)
   (-1.0000E+02, 2.7397E-03), (-4.1096E-03, 2.7397E-03),
   (-3.8356E-03, 2.7260E-03), (-3.5616E-03, 2.6849E-03),
   (-3.2877E-03, 2.6164E-03), (-3.0137E-03, 2.5205E-03),
   (-2.7397E-03, 2.3973E-03), (-2.4658E-03, 2.2466E-03),
   (-2.1918E-03, 2.0685E-03), (-1.9178E-03, 1.8630E-03),
   (-1.6438E-03, 1.6301E-03), (-1.3699E-03, 1.3699E-03),
   ( 0.0000E+00, 0.0000E+00) !Recharge/Drain

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

RELAx P 0.5

CONVergence REFErence for ALL: Tolerance = 1.E-4, 200 outer iterations

DIAGnostic H DP BP RP node (20,21) every 1 step

TIME = 0
SOLVe P in STEAdy mode: max=5000, min=5000
SAVE P H U V to '4.4.1.sav' NOW
SAVE file to '4.4.1.rst' in UNFOrmatted mode

END
```

Listing 18: Input Commands for Problem 4.4.2

```
**********************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
**********************************************************************

**********************************************************************

DEFIne INIT=0 ! 1

GRID is 21 by 21 NODEs
COORdinate NODEs BLOCK X,Y from file '4.4.xyz'

GRAVity 0. -1. 0.

PROPerties: GEOMetric

MATErial POROsity 0.3
HYDRaulic properties S = 1., Kx = 1. ft/d, Ky = 1. ft/d
MULTiphase VAN Genuchten MUALem: n=1.1, alpha=0.3048, Sr=0.250000000 ! Clay Soil

SET P = 0

BOUNdary condition for P: X-, VALUe is LINEar function (80.) (-1)(Y)
BOUNdary condition for P: X+, VALUe is LINEar function (50.) (-1)(Y)

BOUNdary condition for P: Y-, FLUX = 0.
BOUNdary condition for P: Y+, FLUX, SEEPage function of P, qr= 2.73973E-03 ft_per_day, discharge slope= -1.0
    per_day

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

!Commented out the RELAx P 0.5 code
!RELAx P 0.5
```

```
!limited this to 150
CONVergence REFErence for ALL: Tolerance = 1.E-4, 150 outer iterations

DIAGnostic H DP BP RP node (20,21) every 1 step

TIME = 0
!changed this solve
SOLVe P in STEAdy mode: max=200, min=10
SAVE P H U V to '4.4.2.sav' NOW
SAVE file to '4.4.2.rst' in UNFOrmatted mode

END
```

Listing 19: Input Commands for Problem 4.4.3-LH-RH

```
*************************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
*************************************************************************

*************************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite-volume mesh
!INCLude 'GRID.dat'
GRID is 22 by 22 NODEs
COORdinate X RANGes 1000.
COORdinate Y RANGes 100.
GEOMETRY SCALe X and Y by  30.48

! Material types
MATErial TYPE data from 'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1) to (22, 22)
LOCAte ID=INSIDE as nodes (1,1) to (22, 22), FIELd only
LOCAte ID=BOTTOM as nodes (2, 2) to (21, 2)
LOCAte ID=TOPROW as nodes (2,21) to (21,21)
LOCAte ID=TOPBC  as nodes (2,22) to (21,22)

LOCAte ID=TOPBCL as nodes ( 2,22) to (11,22)
LOCAte ID=TOPBCR as nodes (12,22) to (21,22)


LOCAte  MATErial  type  2 as subregion  ID=CLAYEY

WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components  0.0  -0.00981        !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                  !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15              !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                   !reference pressure (N/cm^2)
PROPerty for P is GEOMetric              !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
! Upper Vadose Zone soil properties
MATErial ID=CLAYEY DENSity 2.705
MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase ID=CLAYEY properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase ID=CLAYEY properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARtd
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: X+, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: Y-, FLUX = 0.
```

```
DEFIne IHIG 5.5E−02
DEFIne ILOW 5.5E−03

! higher infiltration everywhere
BOUNdary condition for P for ID=TOPBCL: Y+, FLUX, SEEPage function of P, qr=IHIG cm_per_day, discharge slope= −1.0
      per_day
BOUNdary condition for P for ID=TOPBCR: Y+, FLUX, SEEPage function of P, qr=IHIG cm_per_day, discharge slope= −1.0
      per_day

! Solution controls
!MATRix NSPC for P precon=CHOL, accel=CONJ, MODI
!MATRix ITERation 100
MATRix LUDE for P

!RELAx P 0.5

CONVergence REFErence for ALL: Tolerance = 1.E−4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

SET HEAD in ID=DOMAIN by ALWAys REPLacing with LINEar fcn 0. + 1. * P
SET HEAD in ID=DOMAIN by ALWAys ADD            LINEar fcn 0. + 1. * Y

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V MOIS FC    to 'MAIN.sav' NOW
SAVE P S U V MOIS FC    to "RSRT.sav" UNFOrmatted NOW
SAVE FC S               to "FLOW.sav" UNFOrmatted using COMPact NOW
WRITe P HEAD for ID=BOTTOM to "BOTTOM.dat"
WRITe P HEAD for ID=TOPROW to "TOPROW.dat"
WRITe P HEAD for ID=TOPBC  to "TOPBC.dat"

END
```

Listing 20: Input Commands for Problem 4.4.3-LH-RL

```
************************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
************************************************************************

************************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite−volume mesh
!INCLude 'GRID.dat'
GRID is 22 by 22 NODEs
COORdinate X RANGes 1000.
COORdinate Y RANGes 100.
GEOMETRY SCALe X and Y by  30.48

! Material types
MATErial TYPE data from 'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1) to (22, 22)
LOCAte ID=INSIDE as nodes (1,1) to (22, 22), FIELd only
LOCAte ID=BOTTOM as nodes (2, 2) to (21, 2)
LOCAte ID=TOPROW as nodes (2,21) to (21,21)
LOCAte ID=TOPBC  as nodes (2,22) to (21,22)

LOCAte ID=TOPBCL as nodes ( 2,22) to (11,22)
LOCAte ID=TOPBCR as nodes (12,22) to (21,22)


LOCAte  MATErial  type  2 as subregion  ID=CLAYEY

WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components  0.0  −0.00981        !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                  !fluid density (g/cm^3)
VISCosity of fluid 3.19e−15              !fluid viscosity (N−yr/cm^2)
REFErence P is 10.1325                   !reference pressure (N/cm^2)
PROPerty for P is GEOMetric              !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
```

```
! Upper Vadose Zone soil properties
MATErial ID=CLAYEY DENSity 2.705
MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase ID=CLAYEY properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase ID=CLAYEY properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARtd
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: X+, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: Y-, FLUX  = 0.

DEFIne IHIG 5.5E-02
DEFIne ILOW 5.5E-03

! higher infiltration on left
BOUNdary condition for P for ID=TOPBCL: Y+, FLUX, SEEPage function of P, qr=IHIG cm_per_day, discharge slope= -1.0
     per_day
BOUNdary condition for P for ID=TOPBCR: Y+, FLUX, SEEPage function of P, qr=ILOW cm_per_day, discharge slope= -1.0
     per_day


! Solution controls
!MATRix NSPC for P precon=CHOL, accel=CONJ, MODI
!MATRix ITERation 100
MATRix LUDE for P

!RELAx P 0.5

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

SET HEAD in ID=DOMAIN by ALWAys REPLacing with LINEar fcn 0. + 1. * P
SET HEAD in ID=DOMAIN by ALWAys ADD            LINEar fcn 0. + 1. * Y

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V MOIS FC    to 'MAIN.sav' NOW
SAVE P S U V MOIS FC    to "RSRT.sav" UNFOrmatted NOW
SAVE FC S               to "FLOW.sav" UNFOrmatted using COMPact NOW
WRITe P HEAD for ID=BOTTOM to "BOTTOM.dat"
WRITe P HEAD for ID=TOPROW to "TOPROW.dat"
WRITe P HEAD for ID=TOPBC  to "TOPBC.dat"

END
```

Listing 21: Input Commands for Problem 4.4.3-LL-RH

```
************************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
************************************************************************

************************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite-volume mesh
!INCLude 'GRID.dat'
GRID is 22 by 22 NODEs
COORdinate X RANGes 1000.
COORdinate Y RANGes 100.
GEOMETRY SCALe X and Y by  30.48

! Material types
MATErial TYPE data from 'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1) to (22, 22)
LOCAte ID=INSIDE as nodes (1,1) to (22, 22), FIELd only
LOCAte ID=BOTTOM as nodes (2, 2) to (21, 2)
```

```
LOCAte ID=TOPROW as nodes (2,21) to (21,21)
LOCAte ID=TOPBC  as nodes (2,22) to (21,22)

LOCAte ID=TOPBCL as nodes ( 2,22) to (11,22)
LOCAte ID=TOPBCR as nodes (12,22) to (21,22)


LOCAte  MATErial  type  2 as subregion  ID=CLAYEY

WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components  0.0 -0.00981        !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                 !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15             !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                  !reference pressure (N/cm^2)
PROPerty for P is GEOMetric             !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
! Upper Vadose Zone soil properties
MATErial ID=CLAYEY DENSity 2.705
MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase ID=CLAYEY properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase ID=CLAYEY properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARtd
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: X+, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: Y-, FLUX  = 0.

DEFIne IHIG 5.5E-02
DEFIne ILOW 5.5E-03

! higher infiltration on right
BOUNdary condition for P for ID=TOPBCL: Y+, FLUX, SEEPage function of P, qr=ILOW cm_per_day, discharge slope= -1.0
      per_day
BOUNdary condition for P for ID=TOPBCR: Y+, FLUX, SEEPage function of P, qr=IHIG cm_per_day, discharge slope= -1.0
      per_day

! Solution controls
!MATRix NSPC for P precon=CHOL, accel=CONJ, MODI
!MATRix ITERation 100
MATRix LUDE for P

!RELAx P 0.5

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

SET HEAD in ID=DOMAIN by ALWAys REPLacing with LINEar fcn 0. + 1. * P
SET HEAD in ID=DOMAIN by ALWAys ADD            LINEar fcn 0. + 1. * Y

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V MOIS FC    to 'MAIN.sav' NOW
SAVE P S U V MOIS FC    to "RSRT.sav" UNFOrmatted NOW
SAVE FC S               to "FLOW.sav" UNFOrmatted using COMPact NOW
WRITe P HEAD for ID=BOTTOM to "BOTTOM.dat"
WRITe P HEAD for ID=TOPROW to "TOPROW.dat"
WRITe P HEAD for ID=TOPBC  to "TOPBC.dat"

END
```

Listing 22: Input Commands for Problem 4.4.3-LL-RL

```
*************************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
*************************************************************************
```

```
**********************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite-volume mesh
!INCLude 'GRID.dat'
GRID is 22 by 22 NODEs
COORdinate X RANGes 1000.
COORdinate Y RANGes 100.
GEOMETRY SCALe X and Y by  30.48

! Material types
MATErial TYPE data from 'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1) to (22, 22)
LOCAte ID=INSIDE as nodes (1,1) to (22, 22), FIELd only
LOCAte ID=BOTTOM as nodes (2, 2) to (21, 2)
LOCAte ID=TOPROW as nodes (2,21) to (21,21)
LOCAte ID=TOPBC  as nodes (2,22) to (21,22)

LOCAte ID=TOPBCL as nodes ( 2,22) to (11,22)
LOCAte ID=TOPBCR as nodes (12,22) to (21,22)


LOCAte  MATErial  type  2 as subregion  ID=CLAYEY

WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components  0.0 -0.00981        !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                 !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15             !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                  !reference pressure (N/cm^2)
PROPerty for P is GEOMetric             !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
! Upper Vadose Zone soil properties
MATErial ID=CLAYEY DENSity 2.705
MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase ID=CLAYEY properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase ID=CLAYEY properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARtd
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: X+, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: Y-, FLUX = 0.

DEFIne IHIG 5.5E-02
DEFIne ILOW 5.5E-03

! lower infiltration everywhere
BOUNdary condition for P for ID=TOPBCL: Y+, FLUX, SEEPage function of P, qr=ILOW cm_per_day, discharge slope= -1.0
      per_day
BOUNdary condition for P for ID=TOPBCR: Y+, FLUX, SEEPage function of P, qr=ILOW cm_per_day, discharge slope= -1.0
      per_day

! Solution controls
!MATRix NSPC for P precon=CHOL, accel=CONJ, MODI
!MATRix ITERation 100
MATRix LUDE for P

!RELAx P 0.5

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step
```

```
SET HEAD in ID=DOMAIN by ALWAys REPLacing with LINEar fcn 0. + 1. * P
SET HEAD in ID=DOMAIN by ALWAys ADD             LINEar fcn 0. + 1. * Y

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V MOIS FC    to 'MAIN.sav' NOW
SAVE P S U V MOIS FC    to "RSRT.sav" UNFOrmatted NOW
SAVE FC S               to "FLOW.sav" UNFOrmatted using COMPact NOW
WRITe P HEAD for ID=BOTTOM to "BOTTOM.dat"
WRITe P HEAD for ID=TOPROW to "TOPROW.dat"
WRITe P HEAD for ID=TOPBC  to "TOPBC.dat"

END
```

Listing 23: Input Commands for Problem 4.5

```
**********************************************************************
TITLe 4.5 Theis Solution for Transient Drawdown
**********************************************************************
! Theis, C.V., 1935. The Relation Between the Lowering of the
! Piezometric Surface and the Rate and Duration of Discharge of a
! Well Using Groundwater Storage, Trans. Amer. Geophys. Union, 2,
! p. 519-524.
**********************************************************************

! Allocate space for user-defined variables
ALLOcate DD

GRID is 3 by 1000 NODEs
COORdinate R: MINImum=0.1, MAXImum=1.0e4, RATIo=1.01

HYDRaulic properties S = 7.5e-5, kx = 2.3e-4 m/s, Ky = 2.3e-4 m/s

SET P = 0. everywhere initially

BOUNdary condition for P: Y-, FLUX  = -6.366197e-4 !Q/2*pi*rw*b
BOUNdary condition for P: Y+, VALUe =  0.

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-6, 100 outer iterations

DIAGnostic node (2,100) every 100 steps

! Compute auxiliary variables
!SET DD by REPLacing by a LINEar function:  -1(P) +0(X)  ALWAys !s=-p
SET DD by REPLacing by a LINEar function:  0. -1 * P ALWAys !s=-p


HISTory of DD at COORdinate x=0.5,y=55. at TIME interval  100 secs to '4.5-0100.his'
HISTory of DD at COORdinate x=0.5,y=55. at TIME interval  120 secs to '4.5-0120.his'
HISTory of DD at COORdinate x=0.5,y=55. at TIME interval 3600 secs to '4.5-3600.his'

SOLVe P for 1e+5 secs in steps of 1e+1 secs
SAVE P to '4.5.sav' NOW

END
```

Listing 24: Input Commands for Problem 4.5-XY

```
**********************************************************************
TITLe 4.5 Theis Solution for Transient Drawdown
**********************************************************************
! Theis, C.V., 1935. The Relation Between the Lowering of the
! Piezometric Surface and the Rate and Duration of Discharge of a
! Well Using Groundwater Storage, Trans. Amer. Geophys. Union, 2,
! p. 519-524.
**********************************************************************

GRID is 241 by 241 NODEs
COORdinate NODEs X:
  -1.20000000E+003 -1.18304190E+003 -1.16608380E+003 -1.14929528E+003 -1.13267464E+003
  -1.11622022E+003 -1.09993033E+003 -1.08380335E+003 -1.06783763E+003 -1.05203157E+003
  -1.03638358E+003 -1.02089206E+003 -1.00555546E+003 -9.90372222E+002 -9.75340818E+002
  -9.60459728E+002 -9.45727449E+002 -9.31142493E+002 -9.16703387E+002 -9.02408671E+002
  -8.88256903E+002 -8.74246652E+002 -8.60376504E+002 -8.46645057E+002 -8.33050925E+002
  -8.19592734E+002 -8.06269125E+002 -7.93078753E+002 -7.80020283E+002 -7.67092399E+002
  -7.54293793E+002 -7.41623174E+002 -7.29079261E+002 -7.16660786E+002 -7.04366497E+002
  -6.92195150E+002 -6.80145517E+002 -6.68216380E+002 -6.56406535E+002 -6.44714788E+002
  -6.33139958E+002 -6.21680877E+002 -6.10336387E+002 -5.99105341E+002 -5.87986606E+002
```

−5.76979059E+002	−5.66081587E+002	−5.55293089E+002	−5.44612477E+002	−5.34038670E+002
−5.23570602E+002	−5.13207214E+002	−5.02947460E+002	−4.92790304E+002	−4.82734720E+002
−4.72779691E+002	−4.62924212E+002	−4.53167289E+002	−4.43507934E+002	−4.33945173E+002
−4.24478040E+002	−4.15105578E+002	−4.05826840E+002	−3.96640890E+002	−3.87546800E+002
−3.78543650E+002	−3.69630532E+002	−3.60806545E+002	−3.52070798E+002	−3.43422409E+002
−3.34860503E+002	−3.26384216E+002	−3.17992692E+002	−3.09685084E+002	−3.01460551E+002
−2.93318264E+002	−2.85257400E+002	−2.77277144E+002	−2.69376691E+002	−2.61555243E+002
−2.53812009E+002	−2.46146207E+002	−2.38557063E+002	−2.31043811E+002	−2.23605691E+002
−2.16241953E+002	−2.08951852E+002	−2.01734652E+002	−1.94589624E+002	−1.87516046E+002
−1.80513204E+002	−1.73580390E+002	−1.66716904E+002	−1.59922054E+002	−1.53195152E+002
−1.46535519E+002	−1.39942482E+002	−1.33415375E+002	−1.26953540E+002	−1.20556323E+002
−1.14223078E+002	−1.07953166E+002	−1.01745952E+002	−9.56008113E+001	−8.95171216E+001
−8.34942688E+001	−7.75316445E+001	−7.16286464E+001	−6.57846783E+001	−5.99991500E+001
−5.42714768E+001	−4.86010805E+001	−4.29873881E+001	−3.74298326E+001	−3.19278526E+001
−2.64808925E+001	−2.10884020E+001	−1.57498363E+001	−1.04646563E+001	−5.23232817E+000
0.00000000E+000	5.26919097E+000	1.05383819E+001	1.58602648E+001	2.12353665E+001
2.66642193E+001	3.21473605E+001	3.76853332E+001	4.32786856E+001	4.89279715E+001
5.46337503E+001	6.03965868E+001	6.62170517E+001	7.20957213E+001	7.80331776E+001
8.40300084E+001	9.00868076E+001	9.62041747E+001	1.02382716E+002	1.08623042E+002
1.14925771E+002	1.21291528E+002	1.27720942E+002	1.34214651E+002	1.40773296E+002
1.47397528E+002	1.54088003E+002	1.60845382E+002	1.67670335E+002	1.74563537E+002
1.81525672E+002	1.88557427E+002	1.95659501E+002	2.02832595E+002	2.10077420E+002
2.17394693E+002	2.24785139E+002	2.32249489E+002	2.39788483E+002	2.47402867E+002
2.55093395E+002	2.62860828E+002	2.70705935E+002	2.78629494E+002	2.86632288E+002
2.94715110E+002	3.02878760E+002	3.11124047E+002	3.19451786E+002	3.27862803E+002
3.36357930E+002	3.44938008E+002	3.53603888E+002	3.62356425E+002	3.71196489E+002
3.80124953E+002	3.89142701E+002	3.98250627E+002	4.07449633E+002	4.16740628E+002
4.26124533E+002	4.35602278E+002	4.45174800E+002	4.54843047E+002	4.64607976E+002
4.74470555E+002	4.84431760E+002	4.94492576E+002	5.04654001E+002	5.14917040E+002
5.25282710E+002	5.35752036E+002	5.46326055E+002	5.57005815E+002	5.67792372E+002
5.78686795E+002	5.89690162E+002	6.00803563E+002	6.12028097E+002	6.23364877E+002
6.34815025E+002	6.46379674E+002	6.58059970E+002	6.69857069E+002	6.81772139E+002
6.93806359E+002	7.05960922E+002	7.18237030E+002	7.30635900E+002	7.43158758E+002
7.55806844E+002	7.68581412E+002	7.81483725E+002	7.94515061E+002	8.07676711E+002
8.20969977E+002	8.34396176E+002	8.47956637E+002	8.61652702E+002	8.75485728E+002
8.89457085E+002	9.03568154E+002	9.17820335E+002	9.32215038E+002	9.46753687E+002
9.61437723E+002	9.76268599E+002	9.91247784E+002	1.00637676E+003	1.02165703E+003
1.03709010E+003	1.05267750E+003	1.06842077E+003	1.08432148E+003	1.10038119E+003
1.11660150E+003	1.13298402E+003	1.14953036E+003	1.16624216E+003	1.18312108E+003
1.20000000E+003				

COORdinate NODEs Y:

−1.20000000E+003	−1.18304190E+003	−1.16608380E+003	−1.14929528E+003	−1.13267464E+003
−1.11622022E+003	−1.09993033E+003	−1.08380335E+003	−1.06783763E+003	−1.05203157E+003
−1.03638358E+003	−1.02089206E+003	−1.00555546E+003	−9.90372222E+002	−9.75340818E+002
−9.60459728E+002	−9.45727449E+002	−9.31142493E+002	−9.16703387E+002	−9.02408671E+002
−8.88256903E+002	−8.74246652E+002	−8.60376504E+002	−8.46645057E+002	−8.33050925E+002
−8.19592734E+002	−8.06269125E+002	−7.93078753E+002	−7.80020283E+002	−7.67092399E+002
−7.54293793E+002	−7.41623174E+002	−7.29079261E+002	−7.16660786E+002	−7.04366497E+002
−6.92195150E+002	−6.80145517E+002	−6.68216380E+002	−6.56406535E+002	−6.44714788E+002
−6.33139958E+002	−6.21680877E+002	−6.10336387E+002	−5.99105341E+002	−5.87986606E+002
−5.76979059E+002	−5.66081587E+002	−5.55293089E+002	−5.44612477E+002	−5.34038670E+002
−5.23570602E+002	−5.13207214E+002	−5.02947460E+002	−4.92790304E+002	−4.82734720E+002
−4.72779691E+002	−4.62924212E+002	−4.53167289E+002	−4.43507934E+002	−4.33945173E+002
−4.24478040E+002	−4.15105578E+002	−4.05826840E+002	−3.96640890E+002	−3.87546800E+002
−3.78543650E+002	−3.69630532E+002	−3.60806545E+002	−3.52070798E+002	−3.43422409E+002
−3.34860503E+002	−3.26384216E+002	−3.17992692E+002	−3.09685084E+002	−3.01460551E+002
−2.93318264E+002	−2.85257400E+002	−2.77277144E+002	−2.69376691E+002	−2.61555243E+002
−2.53812009E+002	−2.46146207E+002	−2.38557063E+002	−2.31043811E+002	−2.23605691E+002
−2.16241953E+002	−2.08951852E+002	−2.01734652E+002	−1.94589624E+002	−1.87516046E+002
−1.80513204E+002	−1.73580390E+002	−1.66716904E+002	−1.59922054E+002	−1.53195152E+002
−1.46535519E+002	−1.39942482E+002	−1.33415375E+002	−1.26953540E+002	−1.20556323E+002
−1.14223078E+002	−1.07953166E+002	−1.01745952E+002	−9.56008113E+001	−8.95171216E+001
−8.34942688E+001	−7.75316445E+001	−7.16286464E+001	−6.57846783E+001	−5.99991500E+001
−5.42714768E+001	−4.86010805E+001	−4.29873881E+001	−3.74298326E+001	−3.19278526E+001
−2.64808925E+001	−2.10884020E+001	−1.57498363E+001	−1.04646563E+001	−5.23232817E+000
0.00000000E+000	5.26919097E+000	1.05383819E+001	1.58602648E+001	2.12353665E+001
2.66642193E+001	3.21473605E+001	3.76853332E+001	4.32786856E+001	4.89279715E+001
5.46337503E+001	6.03965868E+001	6.62170517E+001	7.20957213E+001	7.80331776E+001
8.40300084E+001	9.00868076E+001	9.62041747E+001	1.02382716E+002	1.08623042E+002
1.14925771E+002	1.21291528E+002	1.27720942E+002	1.34214651E+002	1.40773296E+002
1.47397528E+002	1.54088003E+002	1.60845382E+002	1.67670335E+002	1.74563537E+002
1.81525672E+002	1.88557427E+002	1.95659501E+002	2.02832595E+002	2.10077420E+002
2.17394693E+002	2.24785139E+002	2.32249489E+002	2.39788483E+002	2.47402867E+002
2.55093395E+002	2.62860828E+002	2.70705935E+002	2.78629494E+002	2.86632288E+002
2.94715110E+002	3.02878760E+002	3.11124047E+002	3.19451786E+002	3.27862803E+002
3.36357930E+002	3.44938008E+002	3.53603888E+002	3.62356425E+002	3.71196489E+002
3.80124953E+002	3.89142701E+002	3.98250627E+002	4.07449633E+002	4.16740628E+002
4.26124533E+002	4.35602278E+002	4.45174800E+002	4.54843047E+002	4.64607976E+002
4.74470555E+002	4.84431760E+002	4.94492576E+002	5.04654001E+002	5.14917040E+002
5.25282710E+002	5.35752036E+002	5.46326055E+002	5.57005815E+002	5.67792372E+002
5.78686795E+002	5.89690162E+002	6.00803563E+002	6.12028097E+002	6.23364877E+002
6.34815025E+002	6.46379674E+002	6.58059970E+002	6.69857069E+002	6.81772139E+002
6.93806359E+002	7.05960922E+002	7.18237030E+002	7.30635900E+002	7.43158758E+002
7.55806844E+002	7.68581412E+002	7.81483725E+002	7.94515061E+002	8.07676711E+002
8.20969977E+002	8.34396176E+002	8.47956637E+002	8.61652702E+002	8.75485728E+002
8.89457085E+002	9.03568154E+002	9.17820335E+002	9.32215038E+002	9.46753687E+002
9.61437723E+002	9.76268599E+002	9.91247784E+002	1.00637676E+003	1.02165703E+003

```
  1.03709010E+003  1.05267750E+003  1.06842077E+003  1.08432148E+003  1.10038119E+003
  1.11660150E+003  1.13298402E+003  1.14953036E+003  1.16624216E+003  1.18312108E+003
  1.20000000E+003

HYDRaulic properties S = 7.5e-5, kx = 2.3e-4 m/s, Ky = 2.3e-4 m/s

SET P = 0. everywhere initially

BOUNdary condition for P: X-, VALUe =  0.
BOUNdary condition for P: X+, VALUe =  0.
BOUNdary condition for P: Y-, VALUe =  0.
BOUNdary condition for P: Y+, VALUe =  0.

!Well
LOCAte (121,121) source for pumping well
SOURce for P = -0.0004 in SELEcted zone

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-6, 100 outer iterations

DIAGnostic node (2,18) every 100 steps
SAVE P to '4.5-XY.sav'  at TIME interval of 86400 secs
HISTory of P at COORdinate x=55.,y=55. at TIME interval 100 secs to '4.5-XY.his'

SOLVe P for 1e+5 secs in steps of 86.4 secs

END
```

Listing 25: Input Commands for Problem 4.6

```
************************************************************************
TITLe 4.6 Transient, 2-D Flow to a Well in an Anisotropic Confined Aquifer
************************************************************************
! Hantush, M. S., and R. G. Thomas, 1966, "A method for analyzing
! a drawdown test in anisotropic aquifers", Water Resources Res.
! v2 n2, 281-285.
************************************************************************

! Allocate space for user-defined variables
ALLOcate DD

GRID is 241 by 241 NODEs
COORdinate NODEs X:
 -1.20000000E+003 -1.18304190E+003 -1.16608380E+003 -1.14929528E+003 -1.13267464E+003
 -1.11622022E+003 -1.09993033E+003 -1.08380335E+003 -1.06783763E+003 -1.05203157E+003
 -1.03638358E+003 -1.02089206E+003 -1.00555546E+003 -9.90372222E+002 -9.75340818E+002
 -9.60459728E+002 -9.45727449E+002 -9.31142493E+002 -9.16703387E+002 -9.02408671E+002
 -8.88256903E+002 -8.74246652E+002 -8.60376504E+002 -8.46645057E+002 -8.33050925E+002
 -8.19592734E+002 -8.06269125E+002 -7.93078753E+002 -7.80020283E+002 -7.67092399E+002
 -7.54293793E+002 -7.41623174E+002 -7.29079261E+002 -7.16660786E+002 -7.04366497E+002
 -6.92195150E+002 -6.80145517E+002 -6.68216380E+002 -6.56406535E+002 -6.44714788E+002
 -6.33139958E+002 -6.21680877E+002 -6.10336387E+002 -5.99105341E+002 -5.87986606E+002
 -5.76979059E+002 -5.66081587E+002 -5.55293089E+002 -5.44612477E+002 -5.34038670E+002
 -5.23570602E+002 -5.13207214E+002 -5.02947460E+002 -4.92790304E+002 -4.82734720E+002
 -4.72779691E+002 -4.62924212E+002 -4.53167289E+002 -4.43507934E+002 -4.33945173E+002
 -4.24478040E+002 -4.15105578E+002 -4.05826840E+002 -3.96640890E+002 -3.87546800E+002
 -3.78543650E+002 -3.69630532E+002 -3.60806545E+002 -3.52070798E+002 -3.43422409E+002
 -3.34860503E+002 -3.26384216E+002 -3.17992692E+002 -3.09685084E+002 -3.01460551E+002
 -2.93318264E+002 -2.85257400E+002 -2.77277144E+002 -2.69376691E+002 -2.61555243E+002
 -2.53812009E+002 -2.46146207E+002 -2.38557063E+002 -2.31043811E+002 -2.23605691E+002
 -2.16241953E+002 -2.08951852E+002 -2.01734652E+002 -1.94589624E+002 -1.87516046E+002
 -1.80513204E+002 -1.73580390E+002 -1.66716904E+002 -1.59922054E+002 -1.53195152E+002
 -1.46535519E+002 -1.39942482E+002 -1.33415375E+002 -1.26953540E+002 -1.20556323E+002
 -1.14223078E+002 -1.07953166E+002 -1.01745952E+002 -9.56008113E+001 -8.95171216E+001
 -8.34942688E+001 -7.75316445E+001 -7.16286464E+001 -6.57846783E+001 -5.99991500E+001
 -5.42714768E+001 -4.86010805E+001 -4.29873881E+001 -3.74298326E+001 -3.19278526E+001
 -2.64808925E+001 -2.10884020E+001 -1.57498363E+001 -1.04646563E+001 -5.23232817E+000
  0.00000000E+000  5.26919097E+000  1.05383819E+001  1.58602648E+001  2.12353665E+001
  2.66642193E+001  3.21473605E+001  3.76853332E+001  4.32786856E+001  4.89279715E+001
  5.46337503E+001  6.03965868E+001  6.62170517E+001  7.20957213E+001  7.80331776E+001
  8.40300084E+001  9.00868076E+001  9.62041747E+001  1.02382716E+002  1.08623042E+002
  1.14925771E+002  1.21291528E+002  1.27720942E+002  1.34214651E+002  1.40773296E+002
  1.47397528E+002  1.54088003E+002  1.60845382E+002  1.67670335E+002  1.74563537E+002
  1.81525672E+002  1.88557427E+002  1.95659501E+002  2.02832595E+002  2.10077420E+002
  2.17394693E+002  2.24785139E+002  2.32249489E+002  2.39788483E+002  2.47402867E+002
  2.55093395E+002  2.62860828E+002  2.70705935E+002  2.78629494E+002  2.86632288E+002
  2.94715110E+002  3.02878760E+002  3.11124047E+002  3.19451786E+002  3.27862803E+002
  3.36357930E+002  3.44938008E+002  3.53603888E+002  3.62356425E+002  3.71196489E+002
  3.80124953E+002  3.89142701E+002  3.98250627E+002  4.07449633E+002  4.16740628E+002
  4.26124533E+002  4.35602278E+002  4.45174800E+002  4.54843047E+002  4.64607976E+002
  4.74470555E+002  4.84431760E+002  4.94492576E+002  5.04654001E+002  5.14917040E+002
  5.25282710E+002  5.35752036E+002  5.46326055E+002  5.57005815E+002  5.67792372E+002
```

```
   5.78686795E+002  5.89690162E+002  6.00803563E+002  6.12028097E+002  6.23364877E+002
   6.34815025E+002  6.46379674E+002  6.58059970E+002  6.69857069E+002  6.81772139E+002
   6.93806359E+002  7.05960922E+002  7.18237030E+002  7.30635900E+002  7.43158758E+002
   7.55806844E+002  7.68581412E+002  7.81483725E+002  7.94515061E+002  8.07676711E+002
   8.20969977E+002  8.34396176E+002  8.47956637E+002  8.61652702E+002  8.75485728E+002
   8.89457085E+002  9.03568154E+002  9.17820335E+002  9.32215038E+002  9.46753687E+002
   9.61437723E+002  9.76268599E+002  9.91247784E+002  1.00637676E+003  1.02165703E+003
   1.03709010E+003  1.05267750E+003  1.06842077E+003  1.08432148E+003  1.10038119E+003
   1.11660150E+003  1.13298402E+003  1.14953036E+003  1.16624216E+003  1.18312108E+003
   1.20000000E+003
COORdinate NODEs Y:
  -1.20000000E+003 -1.18304190E+003 -1.16608380E+003 -1.14929528E+003 -1.13267464E+003
  -1.11622022E+003 -1.09993033E+003 -1.08380335E+003 -1.06783763E+003 -1.05203157E+003
  -1.03638358E+003 -1.02089206E+003 -1.00555546E+003 -9.90372222E+002 -9.75340818E+002
  -9.60459728E+002 -9.45727449E+002 -9.31142493E+002 -9.16703387E+002 -9.02408671E+002
  -8.88256903E+002 -8.74246652E+002 -8.60376504E+002 -8.46645057E+002 -8.33050925E+002
  -8.19592734E+002 -8.06269125E+002 -7.93078753E+002 -7.80020283E+002 -7.67092399E+002
  -7.54293793E+002 -7.41623174E+002 -7.29079261E+002 -7.16660786E+002 -7.04366497E+002
  -6.92195150E+002 -6.80145517E+002 -6.68216380E+002 -6.56406535E+002 -6.44714788E+002
  -6.33139958E+002 -6.21680877E+002 -6.10336387E+002 -5.99105341E+002 -5.87986606E+002
  -5.76979059E+002 -5.66081587E+002 -5.55293089E+002 -5.44612477E+002 -5.34038670E+002
  -5.23570602E+002 -5.13207214E+002 -5.02947460E+002 -4.92790304E+002 -4.82734720E+002
  -4.72779691E+002 -4.62924212E+002 -4.53167289E+002 -4.43507934E+002 -4.33945173E+002
  -4.24478040E+002 -4.15105578E+002 -4.05826840E+002 -3.96640890E+002 -3.87546800E+002
  -3.78543650E+002 -3.69630532E+002 -3.60806545E+002 -3.52070798E+002 -3.43422409E+002
  -3.34860503E+002 -3.26384216E+002 -3.17992692E+002 -3.09685084E+002 -3.01460551E+002
  -2.93318264E+002 -2.85257400E+002 -2.77277144E+002 -2.69376691E+002 -2.61555243E+002
  -2.53812009E+002 -2.46146207E+002 -2.38557063E+002 -2.31043811E+002 -2.23605691E+002
  -2.16241953E+002 -2.08951852E+002 -2.01734652E+002 -1.94589624E+002 -1.87516046E+002
  -1.80513204E+002 -1.73580390E+002 -1.66716904E+002 -1.59922054E+002 -1.53195152E+002
  -1.46535519E+002 -1.39942482E+002 -1.33415375E+002 -1.26953540E+002 -1.20556323E+002
  -1.14223078E+002 -1.07953166E+002 -1.01745952E+002 -9.56008113E+001 -8.95171216E+001
  -8.34942688E+001 -7.75316445E+001 -7.16286464E+001 -6.57846783E+001 -5.99991500E+001
  -5.42714768E+001 -4.86010805E+001 -4.29873881E+001 -3.74298326E+001 -3.19278526E+001
  -2.64808925E+001 -2.10884020E+001 -1.57498363E+001 -1.04646563E+001 -5.23232817E+000
   0.00000000E+000  5.26919097E+000  1.05383819E+001  1.58602648E+001  2.12353665E+001
   2.66642193E+001  3.21473605E+001  3.76853332E+001  4.32786856E+001  4.89279715E+001
   5.46337503E+001  6.03965868E+001  6.62170517E+001  7.20957213E+001  7.80331776E+001
   8.40300084E+001  9.00868076E+001  9.62041747E+001  1.02382716E+002  1.08623042E+002
   1.14925771E+002  1.21291528E+002  1.27720942E+002  1.34214651E+002  1.40773296E+002
   1.47397528E+002  1.54088003E+002  1.60845382E+002  1.67670335E+002  1.74563537E+002
   1.81525672E+002  1.88557427E+002  1.95659501E+002  2.02832595E+002  2.10077420E+002
   2.17394693E+002  2.24785139E+002  2.32249489E+002  2.39788483E+002  2.47402867E+002
   2.55093395E+002  2.62860828E+002  2.70705935E+002  2.78629494E+002  2.86632288E+002
   2.94715110E+002  3.02878760E+002  3.11124047E+002  3.19451786E+002  3.27862803E+002
   3.36357930E+002  3.44938008E+002  3.53603888E+002  3.62356425E+002  3.71196489E+002
   3.80124953E+002  3.89142701E+002  3.98250627E+002  4.07449633E+002  4.16740628E+002
   4.26124533E+002  4.35602278E+002  4.45174800E+002  4.54843047E+002  4.64607976E+002
   4.74470555E+002  4.84431760E+002  4.94492576E+002  5.04654001E+002  5.14917040E+002
   5.25282710E+002  5.35752036E+002  5.46326055E+002  5.57005815E+002  5.67792372E+002
   5.78686795E+002  5.89690162E+002  6.00803563E+002  6.12028097E+002  6.23364877E+002
   6.34815025E+002  6.46379674E+002  6.58059970E+002  6.69857069E+002  6.81772139E+002
   6.93806359E+002  7.05960922E+002  7.18237030E+002  7.30635900E+002  7.43158758E+002
   7.55806844E+002  7.68581412E+002  7.81483725E+002  7.94515061E+002  8.07676711E+002
   8.20969977E+002  8.34396176E+002  8.47956637E+002  8.61652702E+002  8.75485728E+002
   8.89457085E+002  9.03568154E+002  9.17820335E+002  9.32215038E+002  9.46753687E+002
   9.61437723E+002  9.76268599E+002  9.91247784E+002  1.00637676E+003  1.02165703E+003
   1.03709010E+003  1.05267750E+003  1.06842077E+003  1.08432148E+003  1.10038119E+003
   1.11660150E+003  1.13298402E+003  1.14953036E+003  1.16624216E+003  1.18312108E+003
   1.20000000E+003

HYDRaulic properties S = 7.5e-5, kx = 2.3e-4 m/s, Ky = 2.3e-5 m/s

SET P = 0. everywhere initially

BOUNdary condition for P: X-, VALUe =  0.
BOUNdary condition for P: X+, VALUe =  0.
BOUNdary condition for P: Y-, VALUe =  0.
BOUNdary condition for P: Y+, VALUe =  0.

!Well
LOCAte (121,121) source for pumping well
SOURce for P = -0.0004 in SELEcted zone

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-6, 100 outer iterations

DIAGnostic node (121,121) every 10 steps

! Compute auxiliary variables
!SET DD by REPLacing by a LINEar function:  -1(P) +0(X)  ALWAys !s=-p
SET DD by REPLacing by a LINEar function:  0. -1 * P ALWAys !s=-p

LOCATE STATion at coordinates (x=55.,y=0.)
```

```
HISTory of DD at TIME interval 86.4 secs to '4.6-X55-Y00.his' for SELEcted zone

LOCATE STATion at coordinates (x=0.,y=55.)
HISTory of DD at TIME interval 86.4 secs to '4.6-X00-Y55.his' for SELEcted zone

LOCATE STATion at coordinates (x=55.,y=55.)
HISTory of DD at TIME interval 86.4 secs to '4.6-X55-Y55.his' for SELEcted zone

SOLVe P for 86400 secs in steps of 86.4 secs
SAVE P H DD to '4.6.sav' NOW

END
```

Listing 26: Input Commands for Problem 4.7

```
**********************************************************************
TITLe 4.7 Transient, 1-D Flow to a Well in a Leaky Confined Aquifer
**********************************************************************
! M.S. Hantush and C.E. Jacob, "Nonsteady radial flow in an infinite
! leaky aquifer," EOS Transactions American Geophysical Union, vol. 36,
! no.1, 1955, pp. 95-100.
**********************************************************************

! Allocate space for user-defined variables
ALLOcate DD

DEFIne KL = -1.e-6
DEFIne P0 = 0.

GRID is 3 by 1000 NODEs
COORdinate R: MINImum=0.1, MAXImum=1.e4, RATIo=1.01

HYDRaulic properties S = 1.e-4, kx = 5.e-3 ft/s, Ky = 5.e-3 ft/s

SET P = P0 everywhere initially

BOUNdary condition for P: X+ FLUX as LINEar function as (0.) (KL)(P)
BOUNdary condition for P: Y-, FLUX  = -6.3661977e-1 !Q/2*pi*rw*e
BOUNdary condition for P: Y+, VALUe =  P0

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-6, 30 outer iterations

DIAGnostic node (2,18) every 100 steps

! Compute auxiliary variables
SET DD by REPLacing by a LINEar function:  0. -1.0 * P ALWAys !s=-p

HISTory of DD at COORdinate x=0.5,y=60. at TIME interval 1 secs to '4.7.his'

SOLVe P for 250. secs in steps of 1e-2 secs

END
```

Listing 27: Input Commands for Problem 4.8

```
**********************************************************************
TITLe 4.8 - Transient Free-Surface Boussinesq Flow - Recharge
**********************************************************************
! Polubarinova-Kochina, P.Ya., 1954. Theory of Groundwater Movement,
! Translated from Russian to English by J.M. Roger de Weist, 1962,
! Princeton University Press, N.J.
**********************************************************************

PROB WITH FREE SURFACE

GRID NODEs 44 BY 23
COOR X: MIN=0 MAX=200 ratio=1.1
COOR Y values at NODEs are:
0. 2.0 4.0 5.5 7.0 8.0 8.5 9.0 9.25 9.5
9.7 9.9 10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7
10.8 10.9 11.0

ROCK POROsity = 0.25
HYDRAULIC S=0., Kx=0.1, Ky=1.0

SET H = 10 everywhere
BOUNdary X- for H = 11
BOUNDARY FOR P AT Y- FLUX = 0 $ No-flow bottom boundary
BOUNDARY FOR P AT Y+ FLUX = 0 $ No-flow top boundary
```

```
CONVergence for FLOW as a reference: 1.E-6, 200 iter

DIAGNOSITC NODE AT (2,6) every 100 steps
DEBUG GEOMETRY OFF
SAVE H on file '4.8.sav'
SELEct (1,1) to (999,999) interval (2,2)
OUTPut U, V, P H, and S in SELEcted region in NARRow mode

SOLVE for 9 days dt_iniital=0.01, increase_fac=1.01 dt_max = 1
SAVE NOW
SOLVe for 27 days
SAVE NOW
SOLVe for 45 days
SAVE NOW
SOLVe for 63 days
SAVE NOW
SOLVe for 81 days
SAVE NOW
SOLVe for 99 days

END
```

Listing 28: Input Commands for Problem 4.9

```
**********************************************************************
TITLe 4.9 - Transient Free-Surface Boussinesq Flow - Seepage
**********************************************************************
! Polubarinova-Kochina, P.Ya., 1954. Theory of Groundwater Movement,
! Translated from Russian to English by J.M. Roger de Weist, 1962,
! Princeton University Press, N.J.
**********************************************************************

PROBlem with FREE SURFace

GRID NODEs 44 BY 23
COOR X: MIN=0 MAX=200 ratio=1.1
COOR Y values at NODEs are:
 0.  1.5 3.0 4.5 6.0 7.0 7.5 8.0 8.25 8.5
 8.7 8.9 9.0 9.1 9.2 9.3 9.4 9.5 9.6  9.7
 9.8 9.9 10.0

ROCK POROsity = 0.25
HYDRAULIC S=0., Kx=0.1, Ky=1.0

SET H = 10 everywhere
BOUNdary X- for H = 9

BOUNDARY FOR P AT Y- FLUX = 0 $ No-flow bottom boundary
BOUNDARY FOR P AT Y+ FLUX = 0 $ No-flow top boundary

DIAGNOSITC NODE AT (2,6) every 100 steps
DEBUG GEOMETRY OFF
SAVE H on file '4.9.sav'

CONVergence for FLOW as a reference: 1.E-6, 200 iter

SELEct (1,1) to (999,999) interval (2,2)

OUTPut U, V, P H, and S in SELEcted region in NARRow mode

SOLVE for 9 days dt_iniital=0.01, increase_fac=1.01 dt_max = 1.0
SAVE NOW
SOLVe for 27 days
SAVE NOW
SOLVe for 45 days
SAVE NOW
SOLVe for 63 days
SAVE NOW
SOLVe for 81 days
SAVE NOW
SOLVe for 99 days

END
```

Listing 29: Input Commands for Problem 4.10-csc

```
**********************************************************************
TITLe 4.10 Unsaturated Vertical Soil Column
**********************************************************************
! Steady-state flow at constant saturation of 75%
**********************************************************************
```

```
GRID is 251 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=5.e1

GRAVity -1.

!ROCK DENSity 1, POROsity = 0.30
ROCK DENSity 1
ROCK POROsity = 0.30

HYDRaulic properties S = 0., Kx = 0.163 ft/d, Ky = 0.163 ft/d
MULTiphase VAN Genuchten MUALem: n=2.06185567, alpha=0.129, Sr=0.331 ! Silt Loam G.E. 3

SET P = -9.377711175 everywhere initially

BOUNdary condition for P: X-, VALUe = -9.377711175
BOUNdary condition for P: X+, VALUe = -9.377711175

! Solution controls
MATRix LUDE for P
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-6, 100 outer iterations

DIAGnostic node (126,2) every 10 steps

SOLVe P in STEAdy mode: max=200, min=200
SAVE P H S U to '4.10-csc.sav' NOW

END
```

Listing 30: Input Commands for Problem 4.10-wrc

```
*********************************************************************
TITLe 4.10 Unsaturated Vertical Soil Column
*********************************************************************
! Steady-state head is zero, no flow
*********************************************************************

DEFIne h0 = 0.

GRID is 251 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=5.e1

GRAVity -1.

!ROCK DENSity 1, POROsity = 0.30
ROCK DENSity 1
ROCK POROsity = 0.30

HYDRaulic properties S = 0., Kx = 0.163 ft/d, Ky = 0.163 ft/d
MULTiphase VAN Genuchten MUALem: n=2.06185567, alpha=0.129, Sr=0.331 ! Silt Loam G.E. 3

SET H = h0 everywhere initially

BOUNdary condition for H: X-, VALUe = h0
BOUNdary condition for H: X+, VALUe = h0

! Solution controls
MATRix ITERation 100

CONVergence REFErence based on ALL: Tolerance = 1.E-6, 100 outer iterations

DIAGnostic node (126,2) every 10 steps

SOLVe P in STEAdy mode: max=200, min=200
SAVE P H S to '4.10-wrc.sav' NOW

END
```

Listing 31: Input Commands for Problem 4.11.1.1

```
*********************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
*********************************************************************

*********************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD
```

```
! Finite-volume mesh
!INCLude 'GRID.dat'
GRID is 22 by 22 NODEs
COORdinate NODEs BLOCK X,Y from file 'COOR.dat'
GEOMETRY SCALe X and Y by  30.48

! Material types
MATErial TYPE data from 'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1) to (22, 22)
LOCAte ID=INSIDE as nodes (1,1) to (22, 22), FIELd only
LOCAte ID=BOTTOM as nodes (2, 2) to (21, 2)
LOCAte ID=TOPROW as nodes (2,21) to (21,21)
LOCAte ID=TOPBC  as nodes (2,22) to (21,22)

LOCAte  MATErial  type  2 as subregion  ID=CLAYEY

WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components  0.0  -0.00981        !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                  !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15              !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                   !reference pressure (N/cm^2)
PROPerty for P is GEOMetric              !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
! Upper Vadose Zone soil properties
MATErial ID=CLAYEY DENSity 2.705
MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase ID=CLAYEY properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase ID=CLAYEY properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARtd
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe is LINEar function (2438.4) (-1)(Y)   ! 2438.4 cm = 80 ft head
BOUNdary condition for P: X+, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.

! Solution controls
MATRix LUDE for P

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

SET HEAD in ID=DOMAIN by ALWAys REPLacing with LINEar fcn 0. + 1. * P
SET HEAD in ID=DOMAIN by ALWAys ADD            LINEar fcn 0. + 1. * Y

! Velocity field options
VELOcity by FLUX with CORRection              !SRNL/Flach option

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V MOIS FC    to 'MAIN.sav' NOW

END
```

Listing 32: Input Commands for Problem 4.11.2.1

```
*******************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
*******************************************************************

*******************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart
```

```
ALLOcate HEAD

! Finite-volume mesh
GRID is 22 by 22 NODEs
COORdinate CYLIndrical X R from file 'COOR.dat'

! Material types
MATErial TYPE data from 'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1) to (22, 22)
LOCAte ID=INSIDE as nodes (1,1) to (22, 22), FIELd only

LOCAte  MATErial  type  2 as subregion  ID=CLAYEY

WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components  -0.00981  0.0  0.0  0.00981 !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                           !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15                       !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                            !reference pressure (N/cm^2)
PROPerty for P is GEOMetric                       !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
! Upper Vadose Zone soil properties
MATErial ID=CLAYEY DENSity 2.705
MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase ID=CLAYEY properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase ID=CLAYEY properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF

! Boundary Conditions:
BOUNdary condition for P: Y-, VALUe is LINEar function (2438.4) (-1)(X)   ! 2438.4 cm = 80 ft head
BOUNdary condition for P: Y+, VALUe is LINEar function (1524.0) (-1)(X)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: X-, FLUX  = 0.
BOUNdary condition for P: X+, FLUX  = 0.

! Solution controls
MATRix LUDE for P

!RELAx P 0.5

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

VELOcity by FLUX with CORRection            !SRNL/Flach option

TIME = 0
SOLVe P in STEAdy mode: max=100

SAVE P S U V MOIS FC    to 'MAIN.sav' NOW

END
```

Listing 33: Input Commands for Problem 4.11.3.1

```
*********************************************************************
TITLe 4.11.3.1 Unconfined Aquifer Subject to combined recharge/drain BC
*********************************************************************

*********************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite-volume mesh
```

```
GRID is 22 by 22 by 3 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
GEOMETRY SCALe X and Y and Z by  30.48

! Material types
!MATErial TYPE data from 'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1,1) to (22,22,3)
LOCAte ID=INSIDE as nodes (1,1,1) to (22,22,3), FIELd only
LOCAte ID=BOTTOM as nodes (2, 2, 2) to (21, 2, 2)
LOCAte ID=TOPROW as nodes (2,21, 2) to (21,21, 2)
LOCAte ID=TOPBC  as nodes (2,22, 2) to (21,22, 2)

!LOCAte  MATErial  type 2 as subregion  ID=CLAYEY

!WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components  0. -0.00981  0.      !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                  !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15              !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                   !reference pressure (N/cm^2)
PROPerty for P is GEOMetric              !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====
! Upper Vadose Zone soil properties
MATErial DENSity 2.705
MATErial POROsity 0.39 0.39 0.39
HYDR  ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
! Upper Vadose Zone soil properties
!MATErial ID=CLAYEY DENSity 2.705
!MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
!HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
!MULTiphase ID=CLAYEY properties (S,P) from TABLe
!INCLude "Upper_Vadose_Zone.sp"
!MULTiphase ID=CLAYEY properties (S,COND) from TABLe
!INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe is LINEar function (2438.4) (-1)(Y)   ! 2438.4 cm = 80 ft head
BOUNdary condition for P: X+, VALUe is LINEar function (1524.0) (-1)(Y)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
!!BOUNdary condition for P: Y+, FLUX, SEEPage function of P, qr= 8.3507E-02 cm_per_day, discharge slope= -1.0
     per_day

! Solution controls
MATRix LUDE for P

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

SET HEAD in ID=DOMAIN by ALWAys REPLacing with LINEar fcn 0. + 1. * P
SET HEAD in ID=DOMAIN by ALWAys ADD            LINEar fcn 0. + 1. * Y

! Velocity field options
VELOcity by FLUX with CORRection              !SRNL/Flach option

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW
!SAVE P S U V W MOIS FC     to "RSRT.sav" UNFOrmatted NOW
!SAVE FC S                  to "FLOW.sav" UNFOrmatted using COMPact NOW
!WRITe P HEAD for ID=BOTTOM to "BOTTOM.dat"
!WRITe P HEAD for ID=TOPROW to "TOPROW.dat"
```

```
!WRITe P HEAD for ID=TOPBC  to "TOPBC.dat"

END
```

Listing 34: Input Commands for Problem 4.11.3.2

```
**********************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
**********************************************************************

**********************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite-volume mesh
GRID is 22 by 3 by 22 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
GEOMETRY SCALe X and Y and Z by  30.48

! Material types
!MATErial TYPE data from 'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1,1)  to (22,3,22)
LOCAte ID=INSIDE as nodes (1,1,1)  to (22,3,22), FIELd only
LOCAte ID=BOTTOM as nodes (2,2, 2) to (21,2, 2)
LOCAte ID=TOPROW as nodes (2,2,21) to (21,2,21)
LOCAte ID=TOPBC  as nodes (2,2,22) to (21,2,22)

!LOCAte  MATErial  type 2 as subregion  ID=CLAYEY

!WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components   0.  0.  -0.00981     !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                   !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15               !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                    !reference pressure (N/cm^2)
PROPerty for P is GEOMetric               !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====
! Upper Vadose Zone soil properties
MATErial DENSity 2.705
MATErial POROsity 0.39 0.39 0.39
HYDR  ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
! Upper Vadose Zone soil properties
!MATErial ID=CLAYEY DENSity 2.705
!MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
!HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
!MULTiphase ID=CLAYEY properties (S,P) from TABLe
!INCLude "Upper_Vadose_Zone.sp"
!MULTiphase ID=CLAYEY properties (S,COND) from TABLe
!INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe is LINEar function (2438.4) (-1)(Z)   ! 2438.4 cm = 80 ft head
BOUNdary condition for P: X+, VALUe is LINEar function (1524.0) (-1)(Z)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
!!BOUNdary condition for P: Y+, FLUX, SEEPage function of P, qr= 8.3507E-02 cm_per_day, discharge slope= -1.0
    per_day
```

```
! Solution controls
MATRix LUDE for P

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

SET HEAD in ID=DOMAIN by ALWAys REPLacing with LINEar fcn 0. + 1. * P
SET HEAD in ID=DOMAIN by ALWAys ADD            LINEar fcn 0. + 1. * Z

! Velocity field options
VELOcity by FLUX with CORRection              !SRNL/Flach option

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V W MOIS FC    to 'MAIN.sav' NOW
!SAVE P S U V W MOIS FC    to "RSRT.sav" UNFOrmatted NOW
!SAVE FC S                 to "FLOW.sav" UNFOrmatted using COMPact NOW
!WRITe P HEAD for ID=BOTTOM to "BOTTOM.dat"
!WRITe P HEAD for ID=TOPROW to "TOPROW.dat"
!WRITe P HEAD for ID=TOPBC  to "TOPBC.dat"

END
```

Listing 35: Input Commands for Problem 4.11.3.3

```
***********************************************************************
TITLe 4.4 Unconfined Aquifer Subject to combined recharge/drain BC
***********************************************************************

***********************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite-volume mesh
GRID is 3 by 22 by 22 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
GEOMETRY SCALe X and Y and Z by  30.48

! Material types
!MATErial TYPE data from  'TYPE.dat'

LOCAte ID=DOMAIN as nodes (1,1,1)  to (3,22,22)
LOCAte ID=INSIDE as nodes (1,1,1)  to (3,22,22), FIELd only
LOCAte ID=BOTTOM as nodes (2,2, 2) to (2,21, 2)
LOCAte ID=TOPROW as nodes (2,2,21) to (2,21,21)
LOCAte ID=TOPBC  as nodes (2,2,22) to (2,21,22)

!LOCAte  MATErial  type 2 as subregion  ID=CLAYEY

!WRITE MTYP for ID=DOMAIN to "MTYP.dat"

! Material properties
! Global settings
GRAVity components  0.  0. -0.00981      !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                  !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15              !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                   !reference pressure (N/cm^2)
PROPerty for P is GEOMetric              !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====
! Upper Vadose Zone soil properties
MATErial DENSity 2.705
MATErial POROsity 0.39 0.39 0.39
HYDR  ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
MULTiphase properties (S,P) from TABLe
INCLude "Upper_Vadose_Zone.sp"
MULTiphase properties (S,COND) from TABLe
INCLude "Upper_Vadose_Zone.skr"

! (2) Upper Vadose Zone (Clayey)
!FOR material type 2:
! Upper Vadose Zone soil properties
!MATErial ID=CLAYEY DENSity 2.705
!MATErial ID=CLAYEY POROsity 0.39 0.39 0.39
!HYDR  ID=CLAYEY ss= 1.e-3  (kx,ky,kz) --> 3.0480E+01 3.0480E+01 3.0480E+01

! Upper Vadose Zone soil curves
```

```
!MULTiphase ID=CLAYEY properties (S,P) from TABLe
!INCLude "Upper_Vadose_Zone.sp"
!MULTiphase ID=CLAYEY properties (S,COND) from TABLe
!INCLude "Upper_Vadose_Zone.skr"

IF (INIT=0) THEN
SET P = 0
ELSE
READ from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, FLUX = 0.
BOUNdary condition for P: X+, FLUX = 0.
BOUNdary condition for P: Y-, VALUe is LINEar function (2438.4) (-1)(Z)   ! 2438.4 cm = 80 ft head
BOUNdary condition for P: Y+, VALUe is LINEar function (1524.0) (-1)(Z)   ! 1524.0 cm = 50 ft head
BOUNdary condition for P: Z-, FLUX = 0.
BOUNdary condition for P: Z+, FLUX = 0.
!!BOUNdary condition for P: Y+, FLUX, SEEPage function of P, qr= 8.3507E-02 cm_per_day, discharge slope= -1.0
     per_day

! Solution controls
MATRix LUDE for P

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

SET HEAD in ID=DOMAIN by ALWAys REPLacing with LINEar fcn 0. + 1. * P
SET HEAD in ID=DOMAIN by ALWAys ADD            LINEar fcn 0. + 1. * Z

! Velocity field options
VELOcity by FLUX with CORRection              !SRNL/Flach option

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V W MOIS FC    to 'MAIN.sav' NOW
!SAVE P S U V W MOIS FC   to "RSRT.sav" UNFOrmatted NOW
!SAVE FC S                to "FLOW.sav" UNFOrmatted using COMPact NOW
!WRITe P HEAD for ID=BOTTOM to "BOTTOM.dat"
!WRITe P HEAD for ID=TOPROW to "TOPROW.dat"
!WRITe P HEAD for ID=TOPBC  to "TOPBC.dat"

END
```

Listing 36: Input Commands for Problem 4.11.4.1

```
************************************************************************
TITLe 4.11.4.1 Unconfined Aquifer Subject to combined recharge/drain BC
************************************************************************

************************************************************************

CPU 4

DEFIne INIT=0     ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite-volume mesh
GRID is 22 by 22 by 3 NODEs
COORdinates X,Y,Z from file 'COOR.dat'

LOCAte ID=DOMAIN as nodes (1,1,1) to (22,22,3)
LOCAte ID=INSIDE as nodes (1,1,1) to (22,22,3), FIELd only

! Material properties
! Global settings
GRAVity components  0.  0.  -0.00981    !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                 !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15             !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                  !reference pressure (N/cm^2)
PROPerty for P is GEOMetric             !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====
! Upper Vadose Zone soil properties
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0

IF (INIT=0) THEN
SET P = 0
ELSE
READ from archive file 'RSRT.sav' in UNFOrmatted mode STARt
```

```
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.

! Solution controls
MATRix LUDE for P

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

! Velocity field options
VELOcity by FLUX with CORRection              !SRNL/Flach option

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW

END
```

Listing 37: Input Commands for Problem 4.11.4.2

```
***********************************************************************
TITLe 4.11.4.2 Unconfined Aquifer Subject to combined recharge/drain BC
***********************************************************************

***********************************************************************

CPU 4

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

! Finite-volume mesh
GRID is 22 by 22 by 3 NODEs
COORdinates X,Y,Z from file 'COOR.dat'


LOCAte ID=DOMAIN as nodes (1,1,1)  to (22,22,3)
LOCAte ID=INSIDE as nodes (1,1,1)  to (22,22,3), FIELd only

! Material properties
! Global settings
GRAVity components  0.  0.  -0.00981     !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                  !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15              !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                   !reference pressure (N/cm^2)
PROPerty for P is GEOMetric              !spatial averaging at faces

!====   SOLID MATRIX HYDRAULIC PROPERTIES    ====
! Upper Vadose Zone soil properties
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0

IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF

! Boundary Conditions:
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.

! Solution controls
MATRix LUDE for P

CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations

DIAGnostic H DP P RP node (13,21) every 1 step

! Velocity field options
```

```
VELOcity by FLUX with CORRection              !SRNL/Flach option

TIME = 0
SOLVe P in STEAdy mode: max=10

SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW

END
```

Listing 38: Input Commands for Problem 4.11.5.1

```
!****************************************************************
! VELO FLUX CORR NX:6 NY:6 NZ:6
!                AX:0 AY:0 AZ:0
!                SX:0 SY:0 SZ:0
!****************************************************************
CPU 1

DEFIne INIT=0       ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15            !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                 !reference pressure (N/cm^2)
PROPerty for P is GEOMetric            !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
ELSE
READ from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection              !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW
SAVE P S U V W MOIS FC     to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                  to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 39: Input Commands for Problem 4.11.5.2

```
!****************************************************************
! VELO FLUX CORR NX:6 NY:6 NZ:6
!                AX:30 AY:0 AZ:0
!                SX:0 SY:0 SZ:0
!****************************************************************
CPU 1

DEFIne INIT=0       ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15            !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                 !reference pressure (N/cm^2)
PROPerty for P is GEOMetric            !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
```

```
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection              !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW
SAVE P S U V W MOIS FC     to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                  to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 40: Input Commands for Problem 4.11.5.3

```
!****************************************************************
! VELO FLUX CORR NX:6 NY:6 NZ:6
!                AX:0 AY:30 AZ:0
!                SX:0 SY:0 SZ:0
!****************************************************************
CPU 1

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                 !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15             !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                  !reference pressure (N/cm^2)
PROPerty for P is GEOMetric             !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection              !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW
SAVE P S U V W MOIS FC     to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                  to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 41: Input Commands for Problem 4.11.5.4

```
!****************************************************************
! VELO FLUX CORR NX:6 NY:6 NZ:6
!                AX:0 AY:0 AZ:30
!                SX:0 SY:0 SZ:0
!****************************************************************
CPU 1

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
```

```
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982              !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15          !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325               !reference pressure (N/cm^2)
PROPerty for P is GEOMetric          !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
ELSE
READ from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection              !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW
SAVE P S U V W MOIS FC     to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                  to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 42: Input Commands for Problem 4.11.5.5

```
!****************************************************************
! VELO FLUX CORR NX:6 NY:6 NZ:6
!                AX:30 AY:30 AZ:30
!                SX:0 SY:0 SZ:0
!****************************************************************
CPU 1

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982              !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15          !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325               !reference pressure (N/cm^2)
PROPerty for P is GEOMetric          !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
ELSE
READ from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection              !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW
SAVE P S U V W MOIS FC     to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                  to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 43: Input Commands for Problem 4.11.5.6

```
!****************************************************************
! VELO FLUX CORR NX:6 NY:6 NZ:6
!                AX:0 AY:0 AZ:0
```

```
!                 SX:0  SY:0  SZ:75
!***************************************************************
CPU 1

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15            !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                 !reference pressure (N/cm^2)
PROPerty for P is GEOMetric            !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection              !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC    to 'MAIN.sav' NOW
SAVE P S U V W MOIS FC    to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                 to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 44: Input Commands for Problem 4.11.5.7

```
!***************************************************************
! VELO FLUX CORR NX:6  NY:6  NZ:6
!                 AX:0  AY:0  AZ:0
!                 SX:0  SY:75  SZ:0
!***************************************************************
CPU 1

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15            !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                 !reference pressure (N/cm^2)
PROPerty for P is GEOMetric            !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection              !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC    to 'MAIN.sav' NOW
```

```
SAVE P S U V W MOIS FC     to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                  to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 45: Input Commands for Problem 4.11.5.8

```
!****************************************************************
! VELO FLUX CORR NX:6  NY:6  NZ:6
!                AX:0  AY:0  AZ:0
!                SX:0  SY:75  SZ:75
!****************************************************************
CPU 1

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15            !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                 !reference pressure (N/cm^2)
PROPerty for P is GEOMetric            !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection           !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW
SAVE P S U V W MOIS FC     to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                  to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 46: Input Commands for Problem 4.11.5.9

```
!****************************************************************
! VELO FLUX CORR NX:6  NY:6  NZ:6
!                AX:30  AY:30  AZ:30
!                SX:0  SY:75  SZ:75
!****************************************************************
CPU 1

DEFIne INIT=0      ! = 0 new run; =1 restart

ALLOcate HEAD

GRID is 8 by 8 by 8 NODEs
COORdinates X,Y,Z from file 'COOR.dat'
LOCAte ID=DOMAIN as nodes (1,1,1)  to (8,8,8)
LOCAte ID=INSIDE as nodes (1,1,1)  to (8,8,8), FIELD only
GRAVity components  0.  0.  0.  !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15            !fluid viscosity (N-yr/cm^2)
REFErence P is 10.1325                 !reference pressure (N/cm^2)
PROPerty for P is GEOMetric            !spatial averaging at faces
MATErial DENSity 2.705
MATErial POROsity 0.5 0.5 0.5
HYDR  ss= 1.e-3  (kx,ky,kz) --> 1.0  1.0  1.0
IF (INIT=0) THEN
SET P = 0
ELSE
READ  from archive file 'RSRT.sav' in UNFOrmatted mode STARt
ENDIF
BOUNdary condition for P: X-, VALUe = 100.
BOUNdary condition for P: X+, VALUe = 0.
```

```
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.
BOUNdary condition for P: Z-, FLUX  = 0.
BOUNdary condition for P: Z+, FLUX  = 0.
MATRix LUDE for P
CONVergence REFErence for ALL: Tolerance = 1.E-4, 10 outer iterations
DIAGnostic H DP P RP node (2,2,2) every 1 step
VELOcity by FLUX with CORRection              !SRNL/Flach option
TIME = 0
SOLVe P in STEAdy mode: max=10
SAVE P S U V W MOIS FC     to 'MAIN.sav' NOW
SAVE P S U V W MOIS FC     to 'RSRT.sav' UNFOrmatted NOW
SAVE FC S                  to 'FLOW.sav' UNFOrmatted using COMPact NOW
END
```

Listing 47: Input Commands for Problem 4.12

```
/ Main input file
TITLe PORFLOW flow convergence test problem -- PAscheme_SSS_table
!
/* Allocate space for user-defined variables
ALLOcate HEAD
!
/ Finite-element mesh
!INCLude "./MESH.dat"
GRID is  85 by  62 NODEs
COORdinates X Y from file "./COOR.dat"
LOCAte ID=DOMAIN as nodes (1,1) to ( 85, 62)
LOCAte ID=INSIDE as nodes (1,1) to ( 85, 62), FIELd only
!
/ Material types
MATErial type data from './TYPE.dat'
!
/ Subregions
LOCAte MATErial type 1 as subregion ID=ZONE1
LOCAte MATErial type 2 as subregion ID=ZONE2
LOCAte MATErial type 3 as subregion ID=ZONE3
WRITe MTYP for ID=DOMAIN to "MTYP.dat"
!
/ Material properties
// Global settings
GRAVity components  0.0 -0.00981  0.0  0.00981        !xyz components, |g/gc| (N/g)
DENSity of fluid 0.9982                               !fluid density (g/cm^3)
VISCosity of fluid 3.19e-15                           !fluid viscosity (N-yr/cm^2)
REFErence P is 10.13                                  !reference pressure (N/cm^2)
PROPerty for P is HARMonic                            !spatial averaging at faces
!
// Material specific settings
!
!!Material ZONE1
!INCLude "ZONE1.dat"
!!Savannah River sand
MATErial   ID=ZONE1 DENSity  2.65
MATErial   ID=ZONE1 POROsity = 0.38103  0.38103  0.38103
HYDRaulic  ID=ZONE1 ss=1.e-3  kx = 1.58E+04  ky = 1.58E+04  kz = 0
MULTIphase ID=ZONE1 properties (S,P) from TABLe
!INCLude "../../Common/SAND_sp.dat"
102
1.0000000000    0
0.9999999229    1.00E-03
0.9999998933    1.26E-03
0.9999998524    1.58E-03
0.9999997957    2.00E-03
0.9999997174    2.51E-03
0.9999996090    3.16E-03
0.9999994590    3.98E-03
0.9999992515    5.01E-03
0.9999989644    6.31E-03
0.9999985672    7.94E-03
0.9999980176    1.00E-02
0.9999972573    1.26E-02
0.9999962053    1.58E-02
0.9999947499    2.00E-02
0.9999927363    2.51E-02
0.9999899504    3.16E-02
0.9999860961    3.98E-02
0.9999807636    5.01E-02
0.9999733861    6.31E-02
0.9999631797    7.94E-02
0.9999490597    1.00E-01
0.9999295262    1.26E-01
0.9999025050    1.58E-01
0.9998651281    2.00E-01
0.9998134311    2.51E-01
0.9997419359    3.16E-01
```

```
0.9996430766      3.98E-01
0.9995064106      5.01E-01
0.9993175378      6.31E-01
0.9990566267      7.94E-01
0.9986964140      1.00E+00
0.9981995104      1.26E+00
0.9975148132      1.58E+00
0.9965728023      2.00E+00
0.9952795121      2.51E+00
0.9935090657      3.16E+00
0.9910949110      3.98E+00
0.9878204200      5.01E+00
0.9834104496      6.31E+00
0.9775269209      7.94E+00
0.9697733399      1.00E+01
0.9597148189      1.26E+01
0.9469200301      1.58E+01
0.9310273432      2.00E+01
0.9118275740      2.51E+01
0.8893424238      3.16E+01
0.8638687736      3.98E+01
0.8359645520      5.01E+01
0.8063739424      6.31E+01
0.7759160355      7.94E+01
0.7453739837      1.00E+02
0.7154144652      1.26E+02
0.6865485413      1.58E+02
0.6591283080      2.00E+02
0.6333660845      2.51E+02
0.6093632068      3.16E+02
0.5871395225      3.98E+02
0.5666589741      5.01E+02
0.5478497245      6.31E+02
0.5306189809      7.94E+02
0.5148633886      1.00E+03
0.5004760226      1.26E+03
0.4873509055      1.58E+03
0.4753857906      2.00E+03
0.4644837671      2.51E+03
0.4545540814      3.16E+03
0.4455124516      3.98E+03
0.4372810620      5.01E+03
0.4297883634      6.31E+03
0.4229687617      7.94E+03
0.4167622485      1.00E+04
0.4111140081      1.26E+04
0.4059740226      1.58E+04
0.4012966874      2.00E+04
0.3970404451      2.51E+04
0.3931674419      3.16E+04
0.3896432075      3.98E+04
0.3864363592      5.01E+04
0.3835183299      6.31E+04
0.3808631182      7.94E+04
0.3784470599      1.00E+05
0.3762486191      1.26E+05
0.3742481978      1.58E+05
0.3724279618      2.00E+05
0.3707716825      2.51E+05
0.3692645924      3.16E+05
0.3678932538      3.98E+05
0.3666454393      5.01E+05
0.3655100226      6.31E+05
0.3644768796      7.94E+05
0.3635367979      1.00E+06
0.3626813951      1.26E+06
0.3619030437      1.58E+06
0.3611948031      2.00E+06
0.3605503582      2.51E+06
0.3599639624      3.16E+06
0.3594303869      3.98E+06
0.3589448739      5.01E+06
0.3585030941      6.31E+06
0.3581011081      7.94E+06
0.3577353316      1.00E+07
MULTIphase ID=ZONE1 properties (S,COND) from TABLe
!INCLude "../../Common/SAND_skr.dat"
102
1.0000000000      1.00E+00
0.9999999229      9.72E-01
0.9999998933      9.70E-01
0.9999998524      9.67E-01
0.9999997957      9.63E-01
0.9999997174      9.60E-01
0.9999996090      9.56E-01
0.9999994590      9.52E-01
0.9999992515      9.47E-01
```

0.9999989644	9.42E−01
0.9999985672	9.36E−01
0.9999980176	9.30E−01
0.9999972573	9.23E−01
0.9999962053	9.16E−01
0.9999947499	9.07E−01
0.9999927363	8.98E−01
0.9999899504	8.89E−01
0.9999860961	8.78E−01
0.9999807636	8.66E−01
0.9999733861	8.54E−01
0.9999631797	8.40E−01
0.9999490597	8.25E−01
0.9999295262	8.08E−01
0.9999025050	7.90E−01
0.9998651281	7.71E−01
0.9998134311	7.50E−01
0.9997419359	7.27E−01
0.9996430766	7.03E−01
0.9995064106	6.76E−01
0.9993175378	6.47E−01
0.9990566267	6.17E−01
0.9986964140	5.84E−01
0.9981995104	5.49E−01
0.9975148132	5.12E−01
0.9965728023	4.73E−01
0.9952795121	4.32E−01
0.9935090657	3.89E−01
0.9910949110	3.46E−01
0.9878204200	3.01E−01
0.9834104496	2.57E−01
0.9775269209	2.14E−01
0.9697733399	1.74E−01
0.9597148189	1.36E−01
0.9469200301	1.03E−01
0.9310273432	7.45E−02
0.9118275740	5.17E−02
0.8893424238	3.43E−02
0.8638687736	2.18E−02
0.8359645520	1.32E−02
0.8063739424	7.73E−03
0.7759160355	4.37E−03
0.7453739837	2.40E−03
0.7154144652	1.29E−03
0.6865485413	6.79E−04
0.6591283080	3.53E−04
0.6333660845	1.81E−04
0.6093632068	9.24E−05
0.5871395225	4.68E−05
0.5666589741	2.36E−05
0.5478497245	1.19E−05
0.5306189809	5.95E−06
0.5148633886	2.98E−06
0.5004760226	1.49E−06
0.4873509055	7.44E−07
0.4753857906	3.71E−07
0.4644837671	1.85E−07
0.4545540814	9.24E−08
0.4455124516	4.61E−08
0.4372810620	2.30E−08
0.4297883634	1.15E−08
0.4229687617	5.71E−09
0.4167622485	2.85E−09
0.4111140081	1.42E−09
0.4059740226	7.07E−10
0.4012966874	3.52E−10
0.3970404451	1.76E−10
0.3931674419	8.75E−11
0.3896432075	4.36E−11
0.3864363592	2.17E−11
0.3835183299	1.08E−11
0.3808631182	5.39E−12
0.3784470599	2.69E−12
0.3762486191	1.34E−12
0.3742481978	6.68E−13
0.3724279618	3.33E−13
0.3707716825	1.66E−13
0.3692645924	8.26E−14
0.3678932538	4.12E−14
0.3666454393	2.05E−14
0.3655100226	1.02E−14
0.3644768796	5.09E−15
0.3635367979	2.54E−15
0.3626813951	1.27E−15
0.3619030437	6.30E−16
0.3611948031	3.14E−16
0.3605503582	1.57E−16

```
0.3599639624    7.80E-17
0.3594303869    3.89E-17
0.3589448739    1.94E-17
0.3585030941    9.65E-18
0.3581011081    4.81E-18
0.3577353316    2.40E-18
!
!!Material ZONE2
!INCLude "ZONE2.dat"
!!Savannah River sand
MATErial   ID=ZONE2 DENSity  2.65
MATErial   ID=ZONE2 POROsity = 0.38103  0.38103  0.38103
HYDRaulic  ID=ZONE2 ss=1.e-3  kx = 1.58E+04  ky = 1.58E+04  kz = 0
MULTIphase ID=ZONE2 properties (S,P) from TABLe
!INCLude "../../Common/SAND_sp.dat"
102
1.0000000000    0
0.9999999229    1.00E-03
0.9999998933    1.26E-03
0.9999998524    1.58E-03
0.9999997957    2.00E-03
0.9999997174    2.51E-03
0.9999996090    3.16E-03
0.9999994590    3.98E-03
0.9999992515    5.01E-03
0.9999989644    6.31E-03
0.9999985672    7.94E-03
0.9999980176    1.00E-02
0.9999972573    1.26E-02
0.9999962053    1.58E-02
0.9999947499    2.00E-02
0.9999927363    2.51E-02
0.9999899504    3.16E-02
0.9999860961    3.98E-02
0.9999807636    5.01E-02
0.9999733861    6.31E-02
0.9999631797    7.94E-02
0.9999490597    1.00E-01
0.9999295262    1.26E-01
0.9999025050    1.58E-01
0.9998651281    2.00E-01
0.9998134311    2.51E-01
0.9997419359    3.16E-01
0.9996430766    3.98E-01
0.9995064106    5.01E-01
0.9993175378    6.31E-01
0.9990566267    7.94E-01
0.9986964140    1.00E+00
0.9981995104    1.26E+00
0.9975148132    1.58E+00
0.9965728023    2.00E+00
0.9952795121    2.51E+00
0.9935090657    3.16E+00
0.9910949110    3.98E+00
0.9878204200    5.01E+00
0.9834104496    6.31E+00
0.9775269209    7.94E+00
0.9697733399    1.00E+01
0.9597148189    1.26E+01
0.9469200301    1.58E+01
0.9310273432    2.00E+01
0.9118275740    2.51E+01
0.8893424238    3.16E+01
0.8638687736    3.98E+01
0.8359645520    5.01E+01
0.8063739424    6.31E+01
0.7759160355    7.94E+01
0.7453739837    1.00E+02
0.7154144652    1.26E+02
0.6865485413    1.58E+02
0.6591283080    2.00E+02
0.6333660845    2.51E+02
0.6093632068    3.16E+02
0.5871395225    3.98E+02
0.5666589741    5.01E+02
0.5478497245    6.31E+02
0.5306189809    7.94E+02
0.5148633886    1.00E+03
0.5004760226    1.26E+03
0.4873509055    1.58E+03
0.4753857906    2.00E+03
0.4644837671    2.51E+03
0.4545540814    3.16E+03
0.4455124516    3.98E+03
0.4372810620    5.01E+03
0.4297883634    6.31E+03
0.4229687617    7.94E+03
```

```
0.4167622485    1.00E+04
0.4111140081    1.26E+04
0.4059740226    1.58E+04
0.4012966874    2.00E+04
0.3970404451    2.51E+04
0.3931674419    3.16E+04
0.3896432075    3.98E+04
0.3864363592    5.01E+04
0.3835183299    6.31E+04
0.3808631182    7.94E+04
0.3784470599    1.00E+05
0.3762486191    1.26E+05
0.3742481978    1.58E+05
0.3724279618    2.00E+05
0.3707716825    2.51E+05
0.3692645924    3.16E+05
0.3678932538    3.98E+05
0.3666454393    5.01E+05
0.3655100226    6.31E+05
0.3644768796    7.94E+05
0.3635367979    1.00E+06
0.3626813951    1.26E+06
0.3619030437    1.58E+06
0.3611948031    2.00E+06
0.3605503582    2.51E+06
0.3599639624    3.16E+06
0.3594303869    3.98E+06
0.3589448739    5.01E+06
0.3585030941    6.31E+06
0.3581011081    7.94E+06
0.3577353316    1.00E+07
MULTIphase ID=ZONE2 properties (S,COND) from TABLe
!INCLude "../../Common/SAND_skr.dat"
102
1.0000000000    1.00E+00
0.9999999229    9.72E-01
0.9999998933    9.70E-01
0.9999998524    9.67E-01
0.9999997957    9.63E-01
0.9999997174    9.60E-01
0.9999996090    9.56E-01
0.9999994590    9.52E-01
0.9999992515    9.47E-01
0.9999989644    9.42E-01
0.9999985672    9.36E-01
0.9999980176    9.30E-01
0.9999972573    9.23E-01
0.9999962053    9.16E-01
0.9999947499    9.07E-01
0.9999927363    8.98E-01
0.9999899504    8.89E-01
0.9999860961    8.78E-01
0.9999807636    8.66E-01
0.9999733861    8.54E-01
0.9999631797    8.40E-01
0.9999490597    8.25E-01
0.9999295262    8.08E-01
0.9999025050    7.90E-01
0.9998651281    7.71E-01
0.9998134311    7.50E-01
0.9997419359    7.27E-01
0.9996430766    7.03E-01
0.9995064106    6.76E-01
0.9993175378    6.47E-01
0.9990566267    6.17E-01
0.9986964140    5.84E-01
0.9981995104    5.49E-01
0.9975148132    5.12E-01
0.9965728023    4.73E-01
0.9952795121    4.32E-01
0.9935090657    3.89E-01
0.9910949110    3.46E-01
0.9878204200    3.01E-01
0.9834104496    2.57E-01
0.9775269209    2.14E-01
0.9697733399    1.74E-01
0.9597148189    1.36E-01
0.9469200301    1.03E-01
0.9310273432    7.45E-02
0.9118275740    5.17E-02
0.8893424238    3.43E-02
0.8638687736    2.18E-02
0.8359645520    1.32E-02
0.8063739424    7.73E-03
0.7759160355    4.37E-03
0.7453739837    2.40E-03
0.7154144652    1.29E-03
```

```
0.6865485413     6.79E-04
0.6591283080     3.53E-04
0.6333660845     1.81E-04
0.6093632068     9.24E-05
0.5871395225     4.68E-05
0.5666589741     2.36E-05
0.5478497245     1.19E-05
0.5306189809     5.95E-06
0.5148633886     2.98E-06
0.5004760226     1.49E-06
0.4873509055     7.44E-07
0.4753857906     3.71E-07
0.4644837671     1.85E-07
0.4545540814     9.24E-08
0.4455124516     4.61E-08
0.4372810620     2.30E-08
0.4297883634     1.15E-08
0.4229687617     5.71E-09
0.4167622485     2.85E-09
0.4111140081     1.42E-09
0.4059740226     7.07E-10
0.4012966874     3.52E-10
0.3970404451     1.76E-10
0.3931674419     8.75E-11
0.3896432075     4.36E-11
0.3864363592     2.17E-11
0.3835183299     1.08E-11
0.3808631182     5.39E-12
0.3784470599     2.69E-12
0.3762486191     1.34E-12
0.3742481978     6.68E-13
0.3724279618     3.33E-13
0.3707716825     1.66E-13
0.3692645924     8.26E-14
0.3678932538     4.12E-14
0.3666454393     2.05E-14
0.3655100226     1.02E-14
0.3644768796     5.09E-15
0.3635367979     2.54E-15
0.3626813951     1.27E-15
0.3619030437     6.30E-16
0.3611948031     3.14E-16
0.3605503582     1.57E-16
0.3599639624     7.80E-17
0.3594303869     3.89E-17
0.3589448739     1.94E-17
0.3585030941     9.65E-18
0.3581011081     4.81E-18
0.3577353316     2.40E-18
!
!!Material ZONE3
!INCLude "ZONE3.dat"
!!Savannah River sand
MATErial   ID=ZONE3 DENSity  2.65
MATErial   ID=ZONE3 POROsity = 0.38103  0.38103  0.38103
HYDRaulic  ID=ZONE3 ss=1.e-3  kx = 1.58E+04  ky = 1.58E+04  kz = 0
MULTIphase ID=ZONE3 properties (S,P) from TABLe
!INCLude "../../Common/SAND_sp.dat"
102
1.0000000000     0
0.9999999229     1.00E-03
0.9999998933     1.26E-03
0.9999998524     1.58E-03
0.9999997957     2.00E-03
0.9999997174     2.51E-03
0.9999996090     3.16E-03
0.9999994590     3.98E-03
0.9999992515     5.01E-03
0.9999989644     6.31E-03
0.9999985672     7.94E-03
0.9999980176     1.00E-02
0.9999972573     1.26E-02
0.9999962053     1.58E-02
0.9999947499     2.00E-02
0.9999927363     2.51E-02
0.9999899504     3.16E-02
0.9999860961     3.98E-02
0.9999807636     5.01E-02
0.9999733861     6.31E-02
0.9999631797     7.94E-02
0.9999490597     1.00E-01
0.9999295262     1.26E-01
0.9999025050     1.58E-01
0.9998651281     2.00E-01
0.9998134311     2.51E-01
0.9997419359     3.16E-01
0.9996430766     3.98E-01
```

```
0.9995064106    5.01E-01
0.9993175378    6.31E-01
0.9990566267    7.94E-01
0.9986964140    1.00E+00
0.9981995104    1.26E+00
0.9975148132    1.58E+00
0.9965728023    2.00E+00
0.9952795121    2.51E+00
0.9935090657    3.16E+00
0.9910949110    3.98E+00
0.9878204200    5.01E+00
0.9834104496    6.31E+00
0.9775269209    7.94E+00
0.9697733399    1.00E+01
0.9597148189    1.26E+01
0.9469200301    1.58E+01
0.9310273432    2.00E+01
0.9118275740    2.51E+01
0.8893424238    3.16E+01
0.8638687736    3.98E+01
0.8359645520    5.01E+01
0.8063739424    6.31E+01
0.7759160355    7.94E+01
0.7453739837    1.00E+02
0.7154144652    1.26E+02
0.6865485413    1.58E+02
0.6591283080    2.00E+02
0.6333660845    2.51E+02
0.6093632068    3.16E+02
0.5871395225    3.98E+02
0.5666589741    5.01E+02
0.5478497245    6.31E+02
0.5306189809    7.94E+02
0.5148633886    1.00E+03
0.5004760226    1.26E+03
0.4873509055    1.58E+03
0.4753857906    2.00E+03
0.4644837671    2.51E+03
0.4545540814    3.16E+03
0.4455124516    3.98E+03
0.4372810620    5.01E+03
0.4297883634    6.31E+03
0.4229687617    7.94E+03
0.4167622485    1.00E+04
0.4111140081    1.26E+04
0.4059740226    1.58E+04
0.4012966874    2.00E+04
0.3970404451    2.51E+04
0.3931674419    3.16E+04
0.3896432075    3.98E+04
0.3864363592    5.01E+04
0.3835183299    6.31E+04
0.3808631182    7.94E+04
0.3784470599    1.00E+05
0.3762486191    1.26E+05
0.3742481978    1.58E+05
0.3724279618    2.00E+05
0.3707716825    2.51E+05
0.3692645924    3.16E+05
0.3678932538    3.98E+05
0.3666454393    5.01E+05
0.3655100226    6.31E+05
0.3644768796    7.94E+05
0.3635367979    1.00E+06
0.3626813951    1.26E+06
0.3619030437    1.58E+06
0.3611948031    2.00E+06
0.3605503582    2.51E+06
0.3599639624    3.16E+06
0.3594303869    3.98E+06
0.3589448739    5.01E+06
0.3585030941    6.31E+06
0.3581011081    7.94E+06
0.3577353316    1.00E+07
MULTIphase ID=ZONE3 properties (S,COND) from TABLe
!INCLude "../../Common/SAND_skr.dat"
102
1.0000000000    1.00E+00
0.9999999229    9.72E-01
0.9999998933    9.70E-01
0.9999998524    9.67E-01
0.9999997957    9.63E-01
0.9999997174    9.60E-01
0.9999996090    9.56E-01
0.9999994590    9.52E-01
0.9999992515    9.47E-01
0.9999989644    9.42E-01
```

0.9999985672	9.36E−01
0.9999980176	9.30E−01
0.9999972573	9.23E−01
0.9999962053	9.16E−01
0.9999947499	9.07E−01
0.9999927363	8.98E−01
0.9999899504	8.89E−01
0.9999860961	8.78E−01
0.9999807636	8.66E−01
0.9999733861	8.54E−01
0.9999631797	8.40E−01
0.9999490597	8.25E−01
0.9999295262	8.08E−01
0.9999025050	7.90E−01
0.9998651281	7.71E−01
0.9998134311	7.50E−01
0.9997419359	7.27E−01
0.9996430766	7.03E−01
0.9995064106	6.76E−01
0.9993175378	6.47E−01
0.9990566267	6.17E−01
0.9986964140	5.84E−01
0.9981995104	5.49E−01
0.9975148132	5.12E−01
0.9965728023	4.73E−01
0.9952795121	4.32E−01
0.9935090657	3.89E−01
0.9910949110	3.46E−01
0.9878204200	3.01E−01
0.9834104496	2.57E−01
0.9775269209	2.14E−01
0.9697733399	1.74E−01
0.9597148189	1.36E−01
0.9469200301	1.03E−01
0.9310273432	7.45E−02
0.9118275740	5.17E−02
0.8893424238	3.43E−02
0.8638687736	2.18E−02
0.8359645520	1.32E−02
0.8063739424	7.73E−03
0.7759160355	4.37E−03
0.7453739837	2.40E−03
0.7154144652	1.29E−03
0.6865485413	6.79E−04
0.6591283080	3.53E−04
0.6333660845	1.81E−04
0.6093632068	9.24E−05
0.5871395225	4.68E−05
0.5666589741	2.36E−05
0.5478497245	1.19E−05
0.5306189809	5.95E−06
0.5148633886	2.98E−06
0.5004760226	1.49E−06
0.4873509055	7.44E−07
0.4753857906	3.71E−07
0.4644837671	1.85E−07
0.4545540814	9.24E−08
0.4455124516	4.61E−08
0.4372810620	2.30E−08
0.4297883634	1.15E−08
0.4229687617	5.71E−09
0.4167622485	2.85E−09
0.4111140081	1.42E−09
0.4059740226	7.07E−10
0.4012966874	3.52E−10
0.3970404451	1.76E−10
0.3931674419	8.75E−11
0.3896432075	4.36E−11
0.3864363592	2.17E−11
0.3835183299	1.08E−11
0.3808631182	5.39E−12
0.3784470599	2.69E−12
0.3762486191	1.34E−12
0.3742481978	6.68E−13
0.3724279618	3.33E−13
0.3707716825	1.66E−13
0.3692645924	8.26E−14
0.3678932538	4.12E−14
0.3666454393	2.05E−14
0.3655100226	1.02E−14
0.3644768796	5.09E−15
0.3635367979	2.54E−15
0.3626813951	1.27E−15
0.3619030437	6.30E−16
0.3611948031	3.14E−16
0.3605503582	1.57E−16
0.3599639624	7.80E−17

```
0.3594303869    3.89E-17
0.3589448739    1.94E-17
0.3585030941    9.65E-18
0.3581011081    4.81E-18
0.3577353316    2.40E-18
!
/ Boundary conditions
BOUNdary FLUX  of P for Y+: 40  !infiltration (cm/yr)
BOUNdary VALUe of P for Y-: 0            !pressure bottom of model
BOUNdary FLUX  of P for X-: 0            !no flow
BOUNdary FLUX  of P for X+: 0            !no flow
!
/ Outputs
!SAVE P S U V MOIS FC to "MAIN.sav" every 1 step
!
/ Set Initial Condition and Solve
PROPerty P UPWI
MATRix for P NSPC SYMM CHOL CONJ
CONVergence P    1.e-6, 100 iterations max
DIAGnostic output: TIME P S U V for node (2,2) every 1 steps
!DIAGnostic output: TIME V BP DP RP for node (2,2) every 1 steps
DEFIne COLD = YES
DEFIne SOLVSS = YES
IF (COLD = YES) THEN
TIME 0
SET P to: -100                           !set pressure head (cm) to constant
! or
!SET P to LINEar function: 0 -1(X)       !set head (cm) to constant
!
ELSE
READ UNFO "BINARY.sav" and make a fresh STARt
!
ENDIF
IF (SOLVSS = YES) THEN
!
!INCLude "SCHEME.dat"
// PA scheme
!!Migrate to solution neighborhood
CONVergence for P    1.e-6, 10 iterations max
SOLVe STEAdy 5
RELAx S 0.7
SOLVe STEAdy 5
RELAx S 0.3
SOLVe STEAdy 15
RELAx S 0.1
SOLVe STEAdy 45
!!Mixed purpose
CONVergence for P    1.e-6, 30 iterations max
RELAx S 0.03
SOLVe STEAdy 50
RELAx S 0.01
SOLVe STEAdy 50
!!Suppress noise / sharpen mass balance
CONVergence for P    1.e-6, 100 iterations max
RELAx S 0.003
SOLVe STEAdy 20
RELAx S 0.001
SOLVe STEAdy 20
RELAx S 0.0003
SOLVe STEAdy 20
RELAx S 0.0001
SOLVe STEAdy 20
!
ELSE
!       auto?   period  timeStep        multiplier      maxDt   minDt   divisor maxSteps
SOLVe   MANUal  1.e+8   1.e-4           1               1.e+12  1.e-12  1       100
!
ENDIF
!
/ Compute auxiliary variables
SET HEAD by REPLacing by a LINEar function: +0 +1(P) +1(Y)  !h=p+z
!
/ Outputs
SAVE P S U V MOIS FC to "MAIN.sav"                      NOW
SAVE FC S            to "FLOW.sav" using COMPact format NOW
SAVE P S U V MOIS FC to "BINARY.sav" UNFOrmatted        NOW
LOCAte ID=PROFILE COORdinates (-750,-0.1) to (-534,99999) FIELd nodes only
WRITE ID=PROFILE P    to    "P.out"
WRITE ID=PROFILE HEAD to "HEAD.out"
!
END
QUIT
```

A.5 Transport

Listing 48: Input Commands for Problem 5.1-BaseCase

```
************************************************************************
TITLe 5.1 (BC) 1-D saturated solute transport in a uniform flow field
************************************************************************
! Basecase
************************************************************************

GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 years to '5.1-Basecase.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C for 50 days in steps of 0.1 days

END
QUIT
```

Listing 49: Input Commands for Problem 5.1-A

```
************************************************************************
TITLe 5.1 (A) 1-D saturated solute transport in a uniform flow field
************************************************************************
! Retardation = 2 (Kd = 0.3333)
************************************************************************

GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0.3333 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
```

```
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 years to '5.1-A.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 years
TIME = 0.

SOLVe C for 50 days in steps of 0.1 days

END
QUIT
```

Listing 50: Input Commands for Problem 5.1-B

```
**********************************************************************
TITLe 5.1 (B) 1-D saturated solute transport in a uniform flow field
**********************************************************************
! Radioactive decay constant = 0.01
**********************************************************************

GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Nuclide properties
! Decay
DECAy rate for C is 0.01 ! per day

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 days to '5.1-B.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 years
TIME = 0.

SOLVe C for 50 days in steps of 0.1 days

END
QUIT
```

Listing 51: Input Commands for Problem 5.1-C

```
**********************************************************************
TITLe 5.1 (C) 1-D saturated solute transport in a uniform flow field
**********************************************************************
! Retardation = 2 (Kd = 0.3333), Radioactive decay constant = 0.01
**********************************************************************

GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2
```

```
! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0.3333 Da=0 aL=5 aT=0

! Nuclide properties
! Decay
DECAy rate for C is 0.01 ! per day

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 days to '5.1-C.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 years
TIME = 0.

SOLVe C for 50 days in steps of 0.1 days

END
QUIT
```

Listing 52: Input Commands for Problem 5.1-D

```
************************************************************************
TITLe 5.1 (D) 1-D saturated solute transport in a uniform flow field
************************************************************************
! dx=20
************************************************************************

GRID is 21 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 days to '5.1-D.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
```

```
! Solve transient transport
! Time period: 0 to 50 days
TIME = 0.

SOLVe C for 50 days in steps of 0.1 days

END
QUIT
```

Listing 53: Input Commands for Problem 5.1-E

```
**********************************************************************
TITLe 5.1 (E) 1−D saturated solute transport in a uniform flow field
**********************************************************************
! dx=40
**********************************************************************

GRID is 11 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X− in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 days to '5.1-E.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e−6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days
TIME = 0.

SOLVe C for 50 days in steps of 0.1 days

END
QUIT
```

Listing 54: Input Commands for Problem 5.1-F

```
**********************************************************************
TITLe 5.1 (F) 1−D saturated solute transport in a uniform flow field
**********************************************************************
! dx=80
**********************************************************************

GRID is 6 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
```

```
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 days to '5.1-F.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days
TIME = 0.

SOLVe C for 50 days in steps of 0.1 days

END
QUIT
```

Listing 55: Input Commands for Problem 5.1-G

```
**********************************************************************
TITLe 5.1 (G) 1-D saturated solute transport in a uniform flow field
**********************************************************************
! dt=5 days
**********************************************************************

GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in FLUX  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 days to '5.1-G.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days
TIME = 0.

SOLVe C for 50 days in steps of 5. days

END
QUIT
```

Listing 56: Input Commands for Problem 5.1-H

```
**********************************************************************
TITLe 5.1 (H)1-D saturated solute transport in a uniform flow field
**********************************************************************
! dt=10 days
**********************************************************************
```

```
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 days to '5.1-H.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days
TIME = 0.

SOLVe C for 50 days in steps of 10. days

END
QUIT
```

Listing 57: Input Commands for Problem 5.1-I

```
**********************************************************************
TITLe 5.1 (H) 1-D saturated solute transport in a uniform flow field
**********************************************************************
! dt=25 days
**********************************************************************

GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 days to '5.1-I.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
```

```
! Time period: 0 to 50 days
TIME = 0.

SOLVe C for 50 days in steps of 25. days

END
QUIT
```

Listing 58: Input Commands for Problem 5.1-J

```
*********************************************************************
TITLe 5.1 (J) 1-D saturated solute transport in a uniform flow field
*********************************************************************
! Longitudinal dispersivity = 0.01 m
*********************************************************************

GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C  at TIME every 25 years to '5.1-J.sav'

! Solution controls
INTEgration for C by CENTral difference scheme
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C for 50 days in steps of 0.1 days

END
QUIT
```

Listing 59: Input Commands for Problem 5.1-K-25

```
*********************************************************************
TITLe 5.1 (K) 1-D saturated solute transport in a uniform flow field
*********************************************************************
! integration scheme with high Peclet number (0 to 25 days)
*********************************************************************

!============ Hybrid profile =====================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
```

```
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
INTEgration for C by HYBRid profile
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 25 days

TIME = 0.
SOLVe C for 25 days in steps of 0.1 days
SAVE for C  NOW to '5.1-K1-25.sav'
END
!============= Hybrid profile ======================

!============= CONDif scheme ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
INTEgration for C by CONDif scheme
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 25 days

TIME = 0.
SOLVe C for 25 days in steps of 0.1 days
SAVE for C  NOW to '5.1-K2-25.sav'
END
!============= CONDif scheme ======================

!============= Modified Quick scheme ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
```

```
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
INTEgration for C by modified QUICk scheme
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 25 days

TIME = 0.
SOLVe C for 25 days in steps of 0.1 days
SAVE for C  NOW to '5.1-K3-25.sav'
END
!============= Modified Quick scheme ======================

!============= Central difference scheme ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
INTEgration for C by CENTral difference scheme
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 25 days

TIME = 0.
SOLVe C for 25 days in steps of 0.1 days
SAVE for C  NOW to '5.1-K4-25.sav'
END
!============= Central difference scheme ======================

QUIT
```

Listing 60: Input Commands for Problem 5.1-K-50

```
**********************************************************************
TITLe 5.1 (K) 1-D saturated solute transport in a uniform flow field
**********************************************************************
! integration scheme with high Peclet number (0 to 50 days)
**********************************************************************

!============= Hybrid profile ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d
```

```
! Boundary conditions
BOUNdary C   at X- in VALUe = 1
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
INTEgration for C by HYBRid profile
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days

TIME = 0.
SOLVe C for 50 days in steps of 0.1 days
SAVE for C  NOW to '5.1-K1-50.sav'
END
!============= Hybrid profile =====================

!============= CONDif scheme ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C   at X- in VALUe = 1
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
INTEgration for C by CONDif scheme
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days

TIME = 0.
SOLVe C for 50 days in steps of 0.1 days
SAVE for C  NOW to '5.1-K2-50.sav'
END
!============= CONDif scheme ======================

!============= Modified Quick scheme ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C   at X- in VALUe = 1
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps
```

```
! Solution controls
INTEgration for C by modified QUICk scheme
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days

TIME = 0.
SOLVe C for 50 days in steps of 0.1 days
SAVE for C  NOW to '5.1-K3-50.sav'
END
!============= Modified Quick scheme ======================

!============= Central difference scheme ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0.01 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C   at X- in VALUe = 1
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
INTEgration for C by CENTral difference scheme
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days

TIME = 0.
SOLVe C for 50 days in steps of 0.1 days
SAVE for C  NOW to '5.1-K4-50.sav'
END
!============= Central difference scheme ======================

QUIT
```

Listing 61: Input Commands for Problem 5.1-L-25

```
**********************************************************************
TITLe 5.1 (L) 1-D saturated solute transport in a uniform flow field
**********************************************************************
! property averaging (0 to 25 days)
**********************************************************************

!============= Arithmetic averaging of properties =====================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is ARITmetic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C   at X- in VALUe = 1
```

```
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 25 days

TIME = 0.
SOLVe C for 25 days in steps of 0.1 days
SAVE for C  NOW to '5.1-L1-25.sav'
END
!============= Arithmetic averaging of properties ======================

!============= Harmonic averaging of properties =======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 25 days

TIME = 0.
SOLVe C for 25 days in steps of 0.1 days
SAVE for C  NOW to '5.1-L2-25.sav'
END
!============= Harmonic averaging of properties =======================

!============= Geometric averaging of properties ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is GEOMetric

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
```

```
! Solve transient transport
! Time period: 0 to 25 days

TIME = 0.
SOLVe C for 25 days in steps of 0.1 days
SAVE for C NOW to '5.1-L3-25.sav'
END
!============= Geometric averaging of properties =====================

!============= Upwind averaging of properties =====================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

PROPerty for C is UPWInd

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 25 days

TIME = 0.
SOLVe C for 25 days in steps of 0.1 days
SAVE for C NOW to '5.1-L4-25.sav'
END
!============= Upwind averaging of properties =====================

QUIT
```

Listing 62: Input Commands for Problem 5.1-L-50

```
**********************************************************************
TITLe 5.1 (L) 1-D saturated solute transport in a uniform flow field
**********************************************************************
! property averaging (0 to 50 days)
**********************************************************************

!============= Arithmetic averaging of properties =====================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

PROPerty for C is ARITmetic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
```

```
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days

TIME = 0.
SOLVe C for 50 days in steps of 0.1 days
SAVE for C  NOW to '5.1-L1-50.sav'
END
!============= Arithmetic averaging of properties =====================

!============= Harmonic averaging of properties ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days

TIME = 0.
SOLVe C for 50 days in steps of 0.1 days
SAVE for C  NOW to '5.1-L2-50.sav'
END
!============= Harmonic averaging of properties =====================

!============= Geometric averaging of properties =====================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is GEOMetric

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days

TIME = 0.
SOLVe C for 50 days in steps of 0.1 days
```

```
SAVE for C  NOW to '5.1-L3-50.sav'
END
!============= Geometric averaging of properties ======================

!============= Upwind averaging of properties ======================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

PROPerty for C is UPWInd

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=5 aT=0

! Flow conditions
SET S to 1.
SET U to 1. ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 50 days

TIME = 0.
SOLVe C for 50 days in steps of 0.1 days
SAVE for C  NOW to '5.1-L4-50.sav'
END
!============= Upwind averaging of properties ======================

QUIT
```

Listing 63: Input Commands for Problem 5.2-A

```
************************************************************************
TITLe 5.2 (A) 2-D saturated solute transport in a uniform flow field
************************************************************************
! Basecase Parallel Grid
************************************************************************

GRID is 83 by 37 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport for C  Kd=0 Da=0 aL=21.3 aT=4.3

! Flow conditions
SET S to 1.
SET U to 0.161 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0

LOCAte STATion (0.,0.) ! x=0,y=0
SOURce for C is constant at 0.007040119 kg/d/m for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.) every 1 steps

! Time history
```

```
SAVE for C  at TIME every 100 days to '5.2-A.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
!LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 1 days

END
QUIT
```

Listing 64: Input Commands for Problem 5.2-B

```
************************************************************************
TITLe 5.2 (B) 2-D saturated solute transport in a uniform flow field
************************************************************************
! Diagonal flow with full diffusion tensor
************************************************************************

GRID is 83 by 83 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=9.6e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
!CONDuction with TENSor diffusivity
CONDuction with TENSor diffusivity for C
TRANsport for C  Kd=0 Da=0 aL=21.3 aT=4.3

! Flow conditions
SET S to 1.
SET U to 0.11384419 ! m/d
SET V to 0.11384419 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in VALUe = 0
BOUNdary C  at Y+ in GRAD  = 0

LOCAte STATion (0.,0.) ! x=0,y=0
SOURce for C is constant at 0.007040119 kg/d/m for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.) every 10 steps

! Time history
SAVE for C  at TIME every 100 days to '5.2-B.sav'

! Solution controls
MATRix in X Y for C 3 sweeps using ADI
!LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C 1400 days in steps of 1 days

END
QUIT
```

Listing 65: Input Commands for Problem 5.2-C

```
************************************************************************
TITLe 5.2 (C) 2-D saturated solute transport in a uniform flow field
************************************************************************
! Basecase Parallel Grid, kd = 0.4375 m3/kg
************************************************************************
```

```
GRID is 83 by 37 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport for C  Kd=0.4375 Da=0 aL=21.3 aT=4.3

! Flow conditions
SET S to 1.
SET U to 0.161 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0

LOCAte STATion (0.,0.) ! x=0,y=0
SOURce for C is constant at 0.007040119 kg/d/m for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 100 days to '5.2-C.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 1 days

END
QUIT
```

Listing 66: Input Commands for Problem 5.2-D

```
**********************************************************************
TITLe 5.2 (D) 2-D saturated solute transport in a uniform flow field
**********************************************************************
! Basecase Parallel Grid, radioactive decay constant = 0.005 per day
**********************************************************************

GRID is 83 by 37 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport for C  Kd=0 Da=0 aL=21.3 aT=4.3

! Nuclide properties
! Decay
DECAy rate for C is 0.005 per day

! Flow conditions
SET S to 1.
SET U to 0.161 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0
```

```
LOCAte STATion (0.,0.) ! x=0,y=0
SOURce for C is constant at 0.007040119 kg/d/m for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 100 days to '5.2-D.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 1 days

END
QUIT
```

Listing 67: Input Commands for Problem 5.3-BaseCase

```
**********************************************************************
TITLe 5.3 3-D saturated solute transport in a uniform flow field
**********************************************************************
! Basecase
**********************************************************************

GRID is 83 by 37 by 37 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport for C  Kd=0 Da=0 aL=21.3 aT=4.3

! Flow conditions
SET S to 1.
SET U to 0.161  ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0
BOUNdary C  at Z- in GRAD  = 0
BOUNdary C  at Z+ in GRAD  = 0

LOCAte STATion (0.,0.,0.) ! x=0,y=0,z=0
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 1400 days to '5.3-BaseCase.sav'

! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI
!LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days

END
QUIT
```

Listing 68: Input Commands for Problem 5.3-A-1

```
**********************************************************************
```

```
TITLe Three−Dimensional Saturated Solute Transport (Scenario A−1)
**********************************************************************
! Darcy velocities: U=0.161,V=0,W=0
! Dispersivities: alphaLH=21.3,alphaTH=4.3,alphaLV=21.3,alphaTV=4.3
**********************************************************************

GRID is 124 by 55 by 55 NODEs
COORdinate NODEs X: MINImum=−2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=−2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=−2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport  for C kd=0. Dm=0. aL=0. aT=0.
DISPersion for C for STRAtified option: aLH=21.3 aTH=4.3 aLV=21.3 aTV=4.3 meters

! Flow conditions
SET S to 1.
SET U to 0.161 ! m/d

! Boundary conditions
BOUNdary C  at X− in VALU  = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y− in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0
BOUNdary C  at Z− in GRAD  = 0
BOUNdary C  at Z+ in GRAD  = 0

LOCAte STATion (0.,0.,0.) ! x=0,y=0,z=0
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 1400 days to '5.3-A-1.sav'

! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI
!LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e−6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days

END
QUIT
```

Listing 69: Input Commands for Problem 5.3-A-2

```
**********************************************************************
TITLe Three−Dimensional Saturated Solute Transport (Scenario A−2)
**********************************************************************
! Darcy velocities: U=0.1138,V=0.1138,W=0
! Dispersivities: alphaLH=21.3,alphaTH=4.3,alphaLV=21.3,alphaTV=4.3
**********************************************************************

GRID is 124 by 55 by 55 NODEs
COORdinate NODEs X: MINImum=−2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=−2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=−2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport  for C kd=0. Dm=0. aL=0. aT=0.
DISPersion for C for STRAtified option: aLH=21.3 aTH=4.3 aLV=21.3 aTV=4.3 meters
DIFFusivity for C in TENSOR mode
```

```
! Flow conditions
SET S to 1.
SET U to 0.1138 ! m/d
SET V to 0.1138 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in VALUe = 0
BOUNdary C  at Y+ in GRAD  = 0
BOUNdary C  at Z- in GRAD  = 0
BOUNdary C  at Z+ in GRAD  = 0

LOCAte STATion (0.,0.,0.) ! x=0,y=0,z=0
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 1400 days to '5.3-A-2.sav'

! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI
!LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days

END
QUIT
```

Listing 70: Input Commands for Problem 5.3-A-3

```
************************************************************************
TITLe Three-Dimensional Saturated Solute Transport (Scenario A-3)
************************************************************************
! Darcy velocities: U=0.1138,V=0,W=0.1138
! Dispersivities: alphaLH=21.3,alphaTH=4.3,alphaLV=21.3,alphaTV=4.3
************************************************************************

GRID is 124 by 55 by 55 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport  for C kd=0. Dm=0. aL=0. aT=0.
DISPersion for C for STRAtified option: aLH=21.3 aTH=4.3 aLV=21.3 aTV=4.3 meters
DIFFusivity for C in TENSOR mode

! Flow conditions
SET S to 1.
SET U to 0.1138 ! m/d
SET W to 0.1138 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0
BOUNdary C  at Z- in VALUe = 0
BOUNdary C  at Z+ in GRAD  = 0

LOCAte STATion (0.,0.,0.) ! x=0,y=0,z=0
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 1400 days to '5.3-A-3.sav'
```

```
! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI
!LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days

END
QUIT
```

Listing 71: Input Commands for Problem 5.3-B-1

```
************************************************************************
TITLe Three-Dimensional Saturated Solute Transport (Scenario B-1)
************************************************************************
! Darcy velocities: U=0.161,V=0,W=0
! Dispersivities: alphaLH=21.3,alphaTH=4.3,alphaLV=21.3,alphaTV=0.8
************************************************************************

GRID is 124 by 55 by 55 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport  for C kd=0. Dm=0. aL=0. aT=0.
DISPersion for C for STRAtified option: aLH=21.3 aTH=4.3 aLV=21.3 aTV=0.8 meters

! Flow conditions
SET S to 1.
SET U to 0.161 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALU  = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0
BOUNdary C  at Z- in GRAD  = 0
BOUNdary C  at Z+ in GRAD  = 0

LOCAte STATion (0.,0.,0.) ! x=0,y=0,z=0
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 1400 days to '5.3-B-1.sav'

! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI
!LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days

END
QUIT
```

Listing 72: Input Commands for Problem 5.3-B-2

```
************************************************************************
TITLe Three-Dimensional Saturated Solute Transport (Scenario B-2)
************************************************************************
! Darcy velocities: U=0.1138,V=0.1138,W=0
! Dispersivities: alphaLH=21.3,alphaTH=4.3,alphaLV=21.3,alphaTV=0.8
************************************************************************
```

```
GRID is 124 by 55 by 55 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport  for C kd=0. Dm=0. aL=0. aT=0.
DISPersion for C for STRAtified option: aLH=21.3 aTH=4.3 aLV=21.3 aTV=0.8 meters
DIFFusivity for C in TENSOR mode

! Flow conditions
SET S to 1.
SET U to 0.1138 ! m/d
SET V to 0.1138 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in VALUe = 0
BOUNdary C  at Y+ in GRAD  = 0
BOUNdary C  at Z- in GRAD  = 0
BOUNdary C  at Z+ in GRAD  = 0

LOCAte STATion (0.,0.,0.) ! x=0,y=0,z=0
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 1400 days to '5.3-B-2.sav'

! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI
!LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days

END
QUIT
```

Listing 73: Input Commands for Problem 5.3-B-3

```
**********************************************************************
TITLe Three-Dimensional Saturated Solute Transport (Scenario B-3)
**********************************************************************
! Darcy velocities: U=0.1138,V=0,W=0.1138
! Dispersivities: alphaLH=21.3,alphaTH=4.3,alphaLV=21.3,alphaTV=0.8
**********************************************************************

GRID is 124 by 55 by 55 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport  for C kd=0. Dm=0. aL=0. aT=0.
DISPersion for C for STRAtified option: aLH=21.3 aTH=4.3 aLV=21.3 aTV=0.8 meters
DIFFusivity for C in TENSOR mode

! Flow conditions
SET S to 1.
SET U to 0.1138 ! m/d
```

```
SET W to 0.1138 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0
BOUNdary C  at Z- in VALUe = 0
BOUNdary C  at Z+ in GRAD  = 0

LOCAte STATion (0.,0.,0.) ! x=0,y=0,z=0
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! Time history
SAVE for C  at TIME every 1400 days to '5.3-B-3.sav'

! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI
!LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days

END
QUIT
```

Listing 74: Input Commands for Problem 5.3-C-3

```
**********************************************************************
TITLe Three-Dimensional Saturated Solute Transport (Scenario C-3)
**********************************************************************
! Darcy velocities: U=0.1138,V=0,W=0.1138
! Dispersivities: alphaLH=21.3,alphaTH=4.3,alphaLV=4.3,alphaTV=0.8
**********************************************************************
GRID is 124 by 55 by 55 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic
FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport for C kd=0. Dm=0. aL=0. aT=0.
DISPersion for C for STRAtified option: aLH=21.3 aTH=4.3 aLV=4.3 aTV=0.8 meters
DIFFusivity for C in TENSOR mode

! Flow conditions
SET S to 1.
SET U to 0.1138 ! m/d
SET W to 0.1138 ! m/d

! Boundary conditions
BOUNdary C at X- in VALUe = 0
BOUNdary C at X+ in GRAD = 0
BOUNdary C at Y- in GRAD = 0
BOUNdary C at Y+ in GRAD = 0
BOUNdary C at Z- in VALUe = 0
BOUNdary C at Z+ in GRAD = 0
LOCAte STATion (0.,0.,0.) ! x=0,y=0,z=0
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! Time history
SAVE for C at TIME every 1400 days to '5.3-C-3.sav'

! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI

!LIMIt for C 0.0
CONVergence for C REFErence LOCAl 1.e-6, max iterations = 30
```

```
! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days

END
QUIT
```

Listing 75: Input Commands for Problem Th-230

```
!Title SLIT Diffusion for Rn-222, 1-D w/ 1 Ci Pu-238 for 1,125Yrs
!1.22 m cover material on top of 4.88 m waste zone prior to collapse
!1.93 m closure cap and 3.15 m cover material on top of 0.76 m waste zone after collapse
!Uniform Distribution in Waste Zone
!SOURCE TERM: Emmanation Factor of 0.25 => 0.25 Ci of Pu-238
!K. L. Dixon
!1/25/2007

!DECAY CHAIN is Th-230-->Ra-226-->Rn-222
!SIMULATION UNITS: length = m, mass = g, time = years
!*************************************************************************
! Geometry specifications
INCLUDE 'Geom_SLT.dat'

!Zone Identification
!INCLUDE 'ZoneIni_SLT.dat'
LOCAte ID=Lower_Waste subregion ( 1,  1) to ( 3, 18)
LOCAte ID=Upper_Waste subregion ( 1, 19) to ( 3, 28)
LOCAte ID=Back_Soil   subregion ( 1, 29) to ( 3, 44)
LOCAte ID=Closure_Cap subregion ( 1, 45) to ( 3, 55)
LOCAte ID=DOMAIN as nodes (1,   1) through ( 3, 55) !all nodes
!
!Inventory Information
SET INVentory for C to 0.125 in ID=Lower_Waste   ! Th-230 ACTIVITY
SET INVentory for C to 0.125 in ID=Upper_Waste   ! Th-230 ACTIVITY

DENSity = 1.24e+3        ! fluid density (air) in g/m^3

! Get PORFLOW version
INCLUDE 'POR_VER.dat'

INDENT ON
IF (PORVER = 6.10) THEN
   INCLUDE 'PROP_SLT_INIT-old.dat'
ENDIF
IF (PORVER = 6.21) THEN
   INCLUDE 'PROP_SLT_INIT-621.dat'
ELSE
   INCLUDE 'PROP_SLT_INIT.dat'
ENDIF
INDENT OFF

BOUN C  X-   FLUX = 0.          ! Th-230
BOUN C  X+   FLUX = 0.
BOUN C  Y-   FLUX = 0.
BOUN C  Y+   FLUX = 0.

BOUN C2 X-   FLUX = 0.          ! Ra-226
BOUN C2 X+   FLUX = 0.
BOUN C2 Y-   FLUX = 0.
BOUN C2 Y+   FLUX = 0.

BOUN C3 X-   FLUX = 0.          ! Rn-222
BOUN C3 X+   FLUX = 0.
BOUN C3 Y-   FLUX = 0.
BOUN C3 Y+   VALU = 0.

! Decay Info
DECAy half LIFE for C  is 7.538e+04 years    ! Th-230 from Nuclear Wallet Cards, BNL
DECAy half LIFE for C2 is 1.600e+03 years    ! Ra-226 from Nuclear Wallet Cards, BNL
DECAy half LIFE for C3 is 1.047e-02 years    ! Rn-222 from Nuclear Wallet Cards, BNL

REGEnerate  C2 from C   4.711E+01       !  C/C2
REGEnerate  C3 from C2  1.528E+05       !  C2/C3

DIAGnostic node for TIME C C2 C3 at (2, 26) every 100 steps
SELECT from (2,1) to (2,999) in interval of (1,5)
OUTPUT C C2 C3 for SELECTED subregion

FLUX C  for ID=DOMAIN by TIME every 1 years to 'FLUX.out'
FLUX C2 for ID=DOMAIN by TIME every 1 years to 'FLUX.out'
FLUX C3 for ID=DOMAIN by TIME every 1 years to 'FLUX.out'
SAVE C C2 C3 for ID=DOMAIN to 'Th-230.sav' at TIME interval of 100 years
```

```
PROPerty for C C2 C3 is HARMonic !GEOM mean
MATRIX in Y direction in 3 sweeps using ADI

CONV C  REFE GLOBal resid = 1.0e-06,  max_iter 10,  min_iter 2,   F_threshold = 1.e-5
CONV C2 REFE GLOBal resid = 1.0e-06,  max_iter 10,  min_iter 2,   F_threshold = 1.e-5
CONV C3 REFE GLOBal resid = 1.0e-06,  max_iter 10,  min_iter 2,   F_threshold = 1.e-5

DISAble FLOW

SOLVe 1000 yrs, init 1.e-5, inc 1.005, max 1.          !Pre-collapse

END
```

Listing 76: Input Commands for Problem 5.5.1

```
**********************************************************************
TITLe 5.5 1-D unsaturated solute transport in a uniform flow field
**********************************************************************
! steady-state flow at constant saturation of 50%
**********************************************************************

!================ retardation factor based on porosity =================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.5 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.5 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to '5.5.1-phi.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!================ retardation factor based on porosity =================

!============== retardation factor based on water content ==============
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic
```

```
FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.5 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.5 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0
SET MOIS as LINEar function: 0. + (0.5)(S)

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

!Compute retardation factor based on water content
RETArdation for C  as a POWEr function: (0.5)*(MOIS + 0)^(-1)+(1) ! Kd = 0.5
RETArdation for C2 as a POWEr function: (0.5)*(MOIS + 0)^(-1)+(1) ! Kd = 0.5

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to '5.5.1-wc.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!============== retardation factor based on water content ==============

QUIT
```

Listing 77: Input Commands for Problem 5.5.2-A

```
*************************************************************************
TITLe 5.6 1-D unsaturated solute transport in a uniform flow field
*************************************************************************
! steady-state flow at constant saturation of 50% (PROPerty TOTAl)
*************************************************************************

!================ retardation factor based on porosity =================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.5 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.5 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0
```

```
! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'A-phi.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!================ retardation factor based on porosity =================

!============== retardation factor based on water content ==============
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

!Compute retardation factor based on water content
PROPerty C TOTAl
PROPerty C2 TOTAl

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.5 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.5 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'A-wc.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!============== retardation factor based on water content ==============

QUIT
```

Listing 78: Input Commands for Problem 5.5.2-B

```
***********************************************************************
TITLe 5.6 1-D unsaturated solute transport in a uniform flow field
***********************************************************************
! steady-state flow at constant saturation of 50% (PROPerty TOTAl)
***********************************************************************

!================ retardation factor based on porosity =================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.5 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.5 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'B-phi.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!================ retardation factor based on porosity =================

!============== retardation factor based on water content ==============
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

!Compute retardation factor based on water content
PROPerty C TOTAl
PROPerty C2 TOTAl

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.0 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.0 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0
SET MOIS as LINEar function: 0. + (0.5)(S)
```

```
!Compute retardation factor based on water content
RETArdation for C  as a POWEr function: (0.5)*(MOIS + 0)^(-1)+(1) ! Kd = 0.5
RETArdation for C2 as a POWEr function: (0.5)*(MOIS + 0)^(-1)+(1) ! Kd = 0.5

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'B-wc.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!============== retardation factor based on water content ==============

QUIT
```

Listing 79: Input Commands for Problem 5.5.2-C

```
************************************************************************
TITLe 5.6 1-D unsaturated solute transport in a uniform flow field
************************************************************************
! steady-state flow at constant saturation of 50% (PROPerty TOTAl)
************************************************************************

!================ retardation factor based on porosity =================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.5 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.5 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps
```

```
! Time history
SAVE for C C2 at TIME every 25 years to 'C-phi.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!================ retardation factor based on porosity =================

!============== retardation factor based on water content ==============
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

!Compute retardation factor based on water content
PROPerty C TOTAl
PROPerty C2 TOTAl

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.0 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.0 Da=0 aL=4 aT=0

!Compute distribution factor based on water content  Kd=0.5
DIST of C as CONCentration TABLe with 2 sets
(0,0) (100,200)
DIST of C2 as CONCentration TABLe with 2 sets
(0,0) (100,200)

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C   at X- in VALUe = 1
BOUNdary C   at X+ in GRAD  = 0
BOUNdary C2  at X- in VALUe = 0
BOUNdary C2  at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'C-wc.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!============== retardation factor based on water content ==============

QUIT
```

Listing 80: Input Commands for Problem 5.5.2-D

```
*****************************************************************
```

```
TITLe 5.6 1-D unsaturated solute transport in a uniform flow field
*********************************************************************
! steady-state flow at constant saturation of 50% (PROPerty TOTAl)
*********************************************************************

!================ retardation factor based on porosity =================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.5 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.5 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'D-phi.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!================ retardation factor based on porosity =================

!============== retardation factor based on water content ==============
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.0 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.0 Da=0 aL=4 aT=0

!Compute retardation factor based on water content (using DIST TOTAl vs PROP TOTAl)
DIST for C  0.5 TOTAl ! Kd = 0.5
DIST for C2 0.5 TOTAl ! Kd = 0.5

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
```

```
BOUNdary C2 at X− in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'D-wc.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e−6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e−6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!============== retardation factor based on water content ==============

QUIT
```

Listing 81: Input Commands for Problem 5.5.2-E

```
**********************************************************************
TITLe 5.6 1−D unsaturated solute transport in a uniform flow field
**********************************************************************
! steady−state flow at constant saturation of 50% (PROPerty TOTAl)
**********************************************************************

!================ retardation factor based on porosity =================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type 1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANSport for C  Kd=0.5 Da=0 aL=4 aT=0
TRANSport for C2 Kd=0.5 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0

! Boundary conditions
BOUNdary C  at X− in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X− in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'E-phi.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e−6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e−6, max iterations = 30
```

```
! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!================ retardation factor based on porosity =================

!============== retardation factor based on water content ==============
GRID is 201 NODEs
COORdinate NODEs X: MINImum=0.0, MAXImum=4.e2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C  is HARMonic
PROPerty for C2 is HARMonic

FOR material type 1:
MATErial DENSITY 2.0
MATErial POROsity 3*0.5
TRANsport for C  Kd=0.0 Da=0 aL=4 aT=0
TRANsport for C2 Kd=0.0 Da=0 aL=4 aT=0

! Flow conditions
SET S = 0.5
SET U = 4.0
SET MOIS as LINEar function: 0. + (0.5)(S)

!Compute retardation factor based on water content STORage command supercedes the RETArdation command and includes
     the TOTAl
STORage for C  as a POWEr function: (0.5)*(MOIS + 0)^(-1)+(1) TOTAl ! Kd = 0.5
STORage for C2 as a POWEr function: (0.5)*(MOIS + 0)^(-1)+(1) TOTAl ! Kd = 0.5

! Boundary conditions
BOUNdary C  at X- in VALUe = 1
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C2 at X- in VALUe = 0
BOUNdary C2 at X+ in GRAD  = 0

! Decaying species
DECAy half LIFE for C   is 25 years

REGEneration of C2 from C is 1.

SET C2 0.

! Diagnostic information
DIAGnostic output: TIME DTIME C for node 200 every 10 steps

! Time history
SAVE for C C2 at TIME every 25 years to 'E-wc.sav'

! Solution controls
MATRix in X for C C2 3 3 sweeps using ADI
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
CONVergence for C2 REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 500 years
TIME = 0.

SOLVe C C2 for 50 years in steps of 0.01 years

END
!============== retardation factor based on water content ==============

QUIT
```

A.6 Dispersion

Listing 82: Input Commands for Problem 6.1.1

```
***********************************************************************
TITLe 1-D saturated solute transport in a uniform flow field
***********************************************************************
! Numerical Dispersion Study
***********************************************************************

!====================== 0.1 meter mesh spacing ======================
```

```
GRID is 10001 NODEs
COORdinate NODEs X: MINImum=-2.0e+2, MAXImum=8.0e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.1-L01.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!======================= 0.1 meter mesh spacing =======================

!======================= 1.0 meter mesh spacing =======================
GRID is 1001 NODEs
COORdinate NODEs X: MINImum=-2.0e+2, MAXImum=8.0e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.1-L02.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
```

```
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!======================= 1 meter mesh spacing ==========================

!======================= 5 meter mesh spacing ==========================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=-2.0e+2, MAXImum=8.0e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C   at TIME every 5.5 years to '6.1.1-L03.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!======================= 5 meter mesh spacing ==========================

!======================= 10 meter mesh spacing ==========================
GRID is 101 NODEs
COORdinate NODEs X: MINImum=-2.0e+2, MAXImum=8.0e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C   at TIME every 5.5 years to '6.1.1-L04.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
```

```
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 10 meter mesh spacing ========================

!====================== 15 meter mesh spacing ========================
GRID is 69 NODEs
COORdinate NODEs X: MINImum=-2.1e+2, MAXImum=8.1e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.1-L05.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 15 meter mesh spacing ========================

!====================== 20 meter mesh spacing ========================
GRID is 51 NODEs
COORdinate NODEs X: MINImum=-2.e+2, MAXImum=8.e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0
```

```
! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.1-L06.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 20 meter mesh spacing ==========================

!====================== 30 meter mesh spacing =========================
GRID is 35 NODEs
COORdinate NODEs X: MINImum=-2.1e+2, MAXImum=8.1e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.1-L07.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 30 meter mesh spacing ==========================

!====================== 40 meter mesh spacing =========================
GRID is 26 NODEs
COORdinate NODEs X: MINImum=-2.e+2, MAXImum=8.e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
```

```
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.1-L08.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!===================== 40 meter mesh spacing ========================

!===================== 50 meter mesh spacing ========================
GRID is 21 NODEs
COORdinate NODEs X: MINImum=-2.e+2, MAXImum=8.e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.1-L09.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!===================== 50 meter mesh spacing ========================

!===================== 60 meter mesh spacing ========================
GRID is 19 NODEs
COORdinate NODEs X: MINImum=-2.4e+2, MAXImum=8.4e+2
```

```
! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=0 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C   at TIME every 5.5 years to '6.1.1-L10.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 60 meter mesh spacing ==========================

QUIT
```

Listing 83: Input Commands for Problem 6.1.2

```
**********************************************************************
TITLe 1-D saturated solute transport in a uniform flow field
**********************************************************************
! Mechanical Dispersion Study
**********************************************************************

!======================= 0.1 meter mesh spacing =======================
GRID is 10001 NODEs
COORdinate NODEs X: MINImum=-2.0e+2, MAXImum=8.0e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C   at TIME every 5.5 years to '6.1.2-L01.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
```

```
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!======================= 0.1 meter mesh spacing ========================

!======================= 1.0 meter mesh spacing ========================
GRID is 1001 NODEs
COORdinate NODEs X: MINImum=-2.0e+2, MAXImum=8.0e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.2-L02.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!======================= 1 meter mesh spacing ==========================

!======================= 5 meter mesh spacing ==========================
GRID is 201 NODEs
COORdinate NODEs X: MINImum=-2.0e+2, MAXImum=8.0e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0
```

```
! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.2-L03.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!======================= 5 meter mesh spacing ===========================

!======================= 10 meter mesh spacing ==========================
GRID is 101 NODEs
COORdinate NODEs X: MINImum=-2.0e+2, MAXImum=8.0e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.2-L04.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!======================= 10 meter mesh spacing ==========================

!======================= 15 meter mesh spacing =========================
GRID is 69 NODEs
COORdinate NODEs X: MINImum=-2.1e+2, MAXImum=8.1e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
```

```
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.2-L05.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 15 meter mesh spacing ========================

!====================== 20 meter mesh spacing ========================
GRID is 51 NODEs
COORdinate NODEs X: MINImum=-2.e+2, MAXImum=8.e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C  at TIME every 5.5 years to '6.1.2-L06.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!===================== 20 meter mesh spacing =========================

!===================== 30 meter mesh spacing ========================
GRID is 35 NODEs
COORdinate NODEs X: MINImum=-2.1e+2, MAXImum=8.1e+2
```

```
! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C   at TIME every 5.5 years to '6.1.2-L07.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 30 meter mesh spacing ==========================

!====================== 40 meter mesh spacing =========================
GRID is 26 NODEs
COORdinate NODEs X: MINImum=-2.e+2, MAXImum=8.e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C   at TIME every 5.5 years to '6.1.2-L08.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region
```

```
SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 40 meter mesh spacing ==========================

!====================== 50 meter mesh spacing =========================
GRID is 21 NODEs
COORdinate NODEs X: MINImum=-2.e+2, MAXImum=8.e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C   at TIME every 5.5 years to '6.1.2-L09.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 50 meter mesh spacing ==========================

!====================== 60 meter mesh spacing ==========================
GRID is 19 NODEs
COORdinate NODEs X: MINImum=-2.4e+2, MAXImum=8.4e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.0
MATErial POROsity 3*0.25
TRANsport for C  Kd=0 Da=0 aL=20 aT=0

! Flow conditions
SET S to 1.
SET U to 10. ! m/y

! Boundary conditions
BOUNdary C   at X- in VALUe = 0
BOUNdary C   at X+ in GRAD  = 0

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.5) every 100 steps

! Time history
SAVE for C   at TIME every 5.5 years to '6.1.2-L10.sav'

! Solution controls
MATRix in X for C 3 sweeps using ADI
LIMIt for C    0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30
```

```
! Solve transient transport
! Time period: 0 to 5.5 years
TIME = 0.

LOCAte STATion (0.,0.5) ! x=0,y=0
SOURce for C is constant at 10. kg/y/m for SELEcted region
SOLVe C for 1 years in steps of 0.001 years
SOURce OFF for C for most recently SELEcted region

SOLVe C for 4.5 years in steps of 0.001 years

END
!====================== 60 meter mesh spacing ==========================

QUIT
```

A.7 Keyword Commands

Listing 84: Input Commands for Problem 7.1

```
!*********************************************************************
TITLE: SRC081: 7.1.1: TESTING DECAy command
!*********************************************************************
ALLOCATE C5
ALLOCATE C6
ALLOCATE C7
ALLOCATE C8

GRID 3
COORDINATE X RANGE = 1
/
BOUNdary FOR C:  at X- FLUX = 0
BOUNdary FOR C:  at X+ FLUX = 0
BOUNdary FOR C2: at X- FLUX = 0
BOUNdary FOR C2: at X+ FLUX = 0
BOUNdary FOR C3: at X- FLUX = 0
BOUNdary FOR C3: at X+ FLUX = 0
BOUNdary FOR C4: at X- FLUX = 0
BOUNdary FOR C4: at X+ FLUX = 0
BOUNdary FOR C5: at X- FLUX = 0
BOUNdary FOR C5: at X+ FLUX = 0
BOUNdary FOR C6: at X- FLUX = 0
BOUNdary FOR C6: at X+ FLUX = 0
BOUNdary FOR C7: at X- FLUX = 0
BOUNdary FOR C7: at X+ FLUX = 0
BOUNdary FOR C8: at X- FLUX = 0
BOUNdary FOR C8: at X+ FLUX = 0
/
MATErial DENSity  1
MATErial POROsity 1

/
TRANSPORT for C   is kd=0, dm=0
TRANSPORT for C2  is kd=0, dm=0
TRANSPORT for C3  is kd=0, dm=0
TRANSPORT for C4  is kd=0, dm=0
TRANSPORT for C5  is kd=0, dm=0
TRANSPORT for C6  is kd=0, dm=0
TRANSPORT for C7  is kd=0, dm=0
TRANSPORT for C8  is kd=0, dm=0
/
DECAy half LIFE for C   is 5.7100E-02 years ! U-230
DECAy half LIFE for C2  is 5.8000E-05 years ! Th-226
DECAy half LIFE for C3  is 1.2000E-06 years ! Ra-222
DECAy half LIFE for C4  is 1.1100E-09 years ! Rn-218
DECAy half LIFE for C5  is 5.2000E-12 years ! Po-214
DECAy half LIFE for C6  is 2.2200E+01 years ! Pb-210
DECAy half LIFE for C7  is 1.3700E-02 years ! Bi-210
DECAy half LIFE for C8  is 3.8100E-01 years ! Po-210

REGEneration of C2  from C   is 1.00000E+00 ! Th-226  from U-230
REGEneration of C3  from C2  is 1.00000E+00 ! Ra-222  from Th-226
REGEneration of C4  from C3  is 1.00000E+00 ! Rn-218  from Ra-222
REGEneration of C5  from C4  is 1.00000E+00 ! Po-214  from Rn-218
REGEneration of C6  from C5  is 1.00000E+00 ! Pb-210  from Po-214
REGEneration of C7  from C6  is 1.00000E+00 ! Bi-210  from Pb-210
REGEneration of C8  from C7  is 1.00000E+00 ! Po-210  from Bi-210
/
SET C  INVEntory to 1 mole with UNIForm concentration !Initial condition
/
DIAgnostics for TIME C BC at: (2,2) every 2000 steps
/
```

```
MATRix in X for C=3 C2=3 C3=3 C4=3 C5=3 C6=3 C7=3 C8=3 sweeps using ADI
CONVergence for C C2 C3 C4 C5 C6 C7 C8 REFErence LOCAl 1.e-6, max iterations = 30
/
SELEct (2,2)
HISTory  C  C2 C3 C4 TIME interval=0.1 yr 'DECAy-1.his' SELEcted
HISTory  C5 C6 C7 C8 TIME interval=0.1 yr 'DECAy-2.his' SELEcted
/
SOLVE C C2 C3 C4 C5 C6 C7 C8 200 years in steps of 0.01
SAVE OFF
/
END
```

Listing 85: Input Commands for Problem 7.2.1

```
/ Main input file
TITLe radionuclide chain, solubility limit for parent, using DISTribution
!
/ Allocate space for user-defined variables as needed
ALLOcate space for 1000000 words in user input TABLes
!        C  !Parent
ALLOCATE C2 !Daughter
!
/ Finite-element mesh
GRID is 22 by 22 NODEs
COORdinate X RANGe is 1000 cm
COORdinate Y RANGe is 100 cm
LOCAte ID=DOMAIN as nodes (1,1) to (22,22)
LOCAte ID=INSIDE as nodes (1,1) to (22,22), FIELd only
!
/ Material types
MATErial TYPE 1
MATErial TYPE 2 from COORdinate (0,80) to (1000,90)
!
/ Subregions
LOCAte MATErial type  1 as subregion ID=SOIL
LOCAte MATErial type  2 as subregion ID=WASTE
!
/ Material and nuclide properties
PROPerty for  C  C2 is HARMonic
PROPerty for  C  C2 is TOTAl
!
/ Nuclide properties
DECAy half LIFE for C is 1.e+5 years ! Parent
REGEneration of C2 from C is 1.000   ! Daughter from Parent
!
/ Boundary conditions
BOUNdary C  X- FLUX = 0
BOUNdary C  X+ FLUX = 0
BOUNdary C  Y- in FLOW concentration = 0
BOUNdary C  Y+ in FLOW concentration = 0
!
BOUNdary C2 X- FLUX = 0
BOUNdary C2 X+ FLUX = 0
BOUNdary C2 Y- in FLOW concentration = 0
BOUNdary C2 Y+ in FLOW concentration = 0
!
/ Diagnostic information
DIAGnostic output: TIME  C  C2 for node (11,11) every 100 steps
!
/ Flux output
FLUX C   for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C   for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C   for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
FLUX C2  for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C2  for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C2  for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
SAVE  C  C2 for ID=INSIDE to 'C.sav'  at TIME interval of 25 years
!
LOCAte ID=OBSNOD as nodes (11,2) through (11,21)
HIST  C  C2 for ID=OBSNOD by TIME every 1 years to 'DIST.his'
!
/ Solution controls
MATRix LUDE for C
MATRix LUDE for C2
LIMIt for C  0.0
LIMIt for C2 0.0
!
/ No flow calculation
SET U =    0 cm per yr
SET V = -100 cm per yr
DISAble FLOW
!
/ Inventory
```

```
SET C INVEntory in ID=WASTE to  1 mol per unit cm with UNIForm conc
!
/ Transport properties
!
!!FOR material type 1:                              !SOIL
MATErial DENSity   2.6                              !rock grain density (g/cm^3)
ROCK POROsity   0.4                                 !all porosities
TRANsport for C  in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Parent
TRANsport for C2 in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Daughter
!
!!FOR material type 2:                              !WASTE
MATErial DENSity   2.6                              !rock grain density (g/cm^3)
ROCK POROsity   0.4                                 !all porosities
TRANsport for C  in ID=WASTE Kd= 641032.393040365   De=1.6726E+02 aL=0 aT=0    !Parent
TRANsport for C2 in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Daughter
!
!
/ Transport simulation
TIME -0.000001
SOLVE C  C2 0.000001 yrs dt=1 inc=1 max=1           !to get an initial
SAVE C  C2 for ID=INSIDE to 'C.sav'  NOW            !concentration
!
TIME 0
SOLVE C  C2  1000 yrs dt=0.1 inc=1 max=1
!
END
QUIT
```

Listing 86: Input Commands for Problem 7.2.2

```
/ Main input file
TITLe radionuclide chain, solubility limit for parent, using DISTribution
!
/ Allocate space for user-defined variables as needed
ALLOcate space for 1000000 words in user input TABLes
!       C  !Parent
ALLOCATE C2 !Daughter
!
/ Finite-element mesh
GRID is 22 by 22 NODEs
COORdinate X RANGe is 1000 cm
COORdinate Y RANGe is 100 cm
LOCAte ID=DOMAIN as nodes (1,1) to (22,22)
LOCAte ID=INSIDE as nodes (1,1) to (22,22), FIELd only
!
/ Material types
MATErial TYPE 1
MATErial TYPE 2 from COORdinate (0,80) to (1000,90)
!
/ Subregions
LOCAte MATErial type  1 as subregion ID=SOIL
LOCAte MATErial type  2 as subregion ID=WASTE
!
/ Material and nuclide properties
PROPerty for  C  C2 is HARMonic
PROPerty for  C  C2 is TOTAl
!
/ Nuclide properties
DECAy half LIFE for C is 1.e+5 years ! Parent
REGEneration of C2 from C is 1.000   ! Daughter from Parent
!
/ Boundary conditions
BOUNdary C  X- FLUX = 0
BOUNdary C  X+ FLUX = 0
BOUNdary C  Y- in FLOW concentration = 0
BOUNdary C  Y+ in FLOW concentration = 0
!
BOUNdary C2 X- FLUX = 0
BOUNdary C2 X+ FLUX = 0
BOUNdary C2 Y- in FLOW concentration = 0
BOUNdary C2 Y+ in FLOW concentration = 0
!
/ Diagnostic information
DIAGnostic output: TIME  C  C2 for node (11,11) every 100 steps
!
/ Flux output
FLUX C   for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C   for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C   for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
FLUX C2  for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C2  for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C2  for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
SAVE  C  C2 for ID=INSIDE to 'C.sav'  at TIME interval of 25 years
```

```
!
LOCAte ID=OBSNOD as nodes (11,2) through (11,21)
HIST  C  C2 for ID=OBSNOD by TIME every 1 years to 'DIST.his'
!
/ Solution controls
MATRix LUDE for C
MATRix LUDE for C2
LIMIt for C  0.0
LIMIt for C2 0.0
!
/ No flow calculation
SET U =    0 cm per yr
SET V = -100 cm per yr
DISAble FLOW
!
/ Inventory
SET C INVEntory in ID=WASTE to  1 mol per unit cm with UNIForm conc
!
/ Transport properties
!
!!FOR material type 1:                                    !SOIL
MATErial DENSity   2.6                                    !rock grain density (g/cm^3)
ROCK POROsity   0.4                                       !all porosities
TRANsport for C  in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Parent
TRANsport for C2 in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Daughter
!
!!FOR material type 2:                                    !WASTE
MATErial DENSity   2.6                                    !rock grain density (g/cm^3)
ROCK POROsity   0.4                                       !all porosities
TRANsport for C  in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0   !Parent
TRANsport for C2 in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0   !Daughter
!
DIST of C  in ID=WASTE as CONCentration TABLe with 3 sets
! (0,0) (1.55998e-16, 1.0e-10) (1e+20, 1.0e-10)          !Parent  Cs, Cl (Cl = kd * Cs; 1e-10/641032.393040365=Cs;
    )
 (0,0) (6.41032393e-5, 1.0e-10) (1e+20, 1.0e-10)          !Parent  Cs, Cl (Cl = 1/kd * Cs; 1e-10*641032.393040365=Cs
    ; )

!
/ Transport simulation
TIME -0.000001
SOLVE C  C2 0.000001 yrs dt=1 inc=1 max=1                 !to get an initial
SAVE C  C2 for ID=INSIDE to 'C.sav' NOW                   !concentration
!
TIME 0
SOLVE C  C2  1000 yrs dt=0.1 inc=1 max=1
!
END
QUIT
```

Listing 87: Input Commands for Problem 7.2.3

```
/ Main input file
TITLe radionuclide chain, solubility limit for parent, using DISTribution Mode 1
!
/ Allocate space for user-defined variables as needed
ALLOcate space for 1000000 words in user input TABLes
!        C  !Parent
ALLOCATE C2 !Daughter
!
/ Finite-element mesh
GRID is 22 by 22 NODEs
COORdinate X RANGe is 1000 cm
COORdinate Y RANGe is 100 cm
LOCAte ID=DOMAIN as nodes (1,1) to (22,22)
LOCAte ID=INSIDE as nodes (1,1) to (22,22), FIELd only
!
/ Material types
MATErial TYPE 1
MATErial TYPE 2 from COORdinate (0,80) to (1000,90)
!
/ Subregions
LOCAte MATErial type  1 as subregion ID=SOIL
LOCAte MATErial type  2 as subregion ID=WASTE
!
/ Material and nuclide properties
PROPerty for  C  C2 is HARMonic
PROPerty for  C  C2 is TOTAl
!
/ Nuclide properties
DECAy half LIFE for C is 1.e+5 years ! Parent
REGEneration of C2 from C is 1.000   ! Daughter from Parent
!
/ Boundary conditions
BOUNdary C  X- FLUX = 0
```

```
BOUNdary C  X+ FLUX = 0
BOUNdary C  Y- in FLOW concentration = 0
BOUNdary C  Y+ in FLOW concentration = 0
!
BOUNdary C2 X- FLUX = 0
BOUNdary C2 X+ FLUX = 0
BOUNdary C2 Y- in FLOW concentration = 0
BOUNdary C2 Y+ in FLOW concentration = 0
!
/ Diagnostic information
DIAGnostic output: TIME  C  C2 for node (11,11) every 100 steps
!
/ Flux output
FLUX C   for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C   for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C   for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
FLUX C2  for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C2  for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C2  for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
SAVE  C  C2 for ID=INSIDE to 'C.sav'  at TIME interval of 25 years
!
LOCAte ID=OBSNOD as nodes (11,2) through (11,21)
HIST  C  C2 for ID=OBSNOD by TIME every 1 years to 'DIST.his'
!
/ Solution controls
MATRix LUDE for C
MATRix LUDE for C2
LIMIt for C  0.0
LIMIt for C2 0.0
!
/ No flow calculation
SET U =    0 cm per yr
SET V = -100 cm per yr
DISAble FLOW
!
/ Inventory
SET C INVEntory in ID=WASTE to  1 mol per unit cm with UNIForm conc
!
/ Transport properties
!
!!FOR material type 1:                              !SOIL
MATErial DENSity   2.6                              !rock grain density (g/cm^3)
ROCK POROsity   0.4                                 !all porosities
TRANsport for C  in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Parent
TRANsport for C2 in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Daughter
!
!!FOR material type 2:                              !WASTE
MATErial DENSity   2.6                              !rock grain density (g/cm^3)
ROCK POROsity   0.4                                 !all porosities
TRANsport for C  in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0   !Parent
TRANsport for C2 in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0   !Daughter
!
DIST of C: = 641032.39 in ID=WASTE

!
/ Transport simulation
TIME -0.000001
SOLVE C  C2 0.000001 yrs dt=1 inc=1 max=1           !to get an initial
SAVE C  C2 for ID=INSIDE to 'C.sav'  NOW            !concentration
!
TIME 0
SOLVE C  C2  1000 yrs dt=0.1 inc=1 max=1
!
END
QUIT
```

Listing 88: Input Commands for Problem 7.2.4

```
/ Main input file
TITLe radionuclide chain, solubility limit for parent, using DISTribution
!
/ Allocate space for user-defined variables as needed
ALLOcate space for 1000000 words in user input TABLes
!       C  !Parent
ALLOCATE C2 !Daughter
!
/ Finite-element mesh
GRID is 22 by 22 NODEs
COORdinate X RANGe is 1000 cm
COORdinate Y RANGe is 100 cm
LOCAte ID=DOMAIN as nodes (1,1) to (22,22)
LOCAte ID=INSIDE as nodes (1,1) to (22,22), FIELd only
!
```

```
/ Material types
MATErial TYPE 1
MATErial TYPE 2 from COORdinate (0,80) to (1000,90)
!
/ Subregions
LOCAte MATErial type  1 as subregion ID=SOIL
LOCAte MATErial type  2 as subregion ID=WASTE
!
/ Material and nuclide properties
PROPerty for  C  C2 is HARMonic
PROPerty for  C  C2 is TOTAl
!
/ Nuclide properties
DECAy half LIFE for C is 1.e+5 years ! Parent
REGEneration of C2 from C is 1.000   ! Daughter from Parent
!
/ Boundary conditions
BOUNdary C  X- FLUX = 0
BOUNdary C  X+ FLUX = 0
BOUNdary C  Y- in FLOW concentration = 0
BOUNdary C  Y+ in FLOW concentration = 0
!
BOUNdary C2 X- FLUX = 0
BOUNdary C2 X+ FLUX = 0
BOUNdary C2 Y- in FLOW concentration = 0
BOUNdary C2 Y+ in FLOW concentration = 0
!
/ Diagnostic information
DIAGnostic output: TIME  C  C2 for node (11,11) every 100 steps
!
/ Flux output
FLUX C   for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C   for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C   for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
FLUX C2  for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C2  for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C2  for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
SAVE  C  C2 for ID=INSIDE to 'C.sav'  at TIME interval of 25 years
!
LOCAte ID=OBSNOD as nodes (11,2) through (11,21)
HIST  C  C2 for ID=OBSNOD by TIME every 1 years to 'DIST.his'
!
/ Solution controls
MATRix LUDE for C
MATRix LUDE for C2
LIMIt for C  0.0
LIMIt for C2 0.0
!
/ No flow calculation
SET U =    0 cm per yr
SET V = -100 cm per yr
DISAble FLOW
!
/ Inventory
SET C INVEntory in ID=WASTE to  1 mol per unit cm with UNIForm conc
!
/ Transport properties
!
!!FOR material type 1:                                   !SOIL
MATErial DENSity   2.6                                   !rock grain density (g/cm^3)
ROCK POROsity   0.4                                      !all porosities
TRANsport for C  in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Parent
TRANsport for C2 in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Daughter
!
!!FOR material type 2:                                   !WASTE
MATErial DENSity   2.6                                   !rock grain density (g/cm^3)
ROCK POROsity   0.4                                      !all porosities
TRANsport for C  in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0   !Parent
TRANsport for C2 in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0   !Daughter
!
DIST of C  in ID=WASTE as (C,kd) TABLe with 3 sets
! (0,641032.39) (1.0e-10,641032.39) (1e+20, 0)           !Parent  Cl, kd
! (0,641032.39) (1.0e-10,641032.39) (1.1e-10,0)          !Parent  Cl, kd
 (0,641032.39) (1.0e-10,641032.39) (1.1e-10,1e+20)              !Parent  Cl, kd

!
/ Transport simulation
TIME -0.000001
SOLVE C  C2 0.000001 yrs dt=1 inc=1 max=1                !to get an initial
SAVE C  C2 for ID=INSIDE to 'C.sav'  NOW                 !concentration
!
TIME 0
SOLVE C  C2  1000 yrs dt=0.1 inc=1 max=1
!
END
```

QUIT

Listing 89: Input Commands for Problem 7.2.5

```
/ Main input file
TITLe radionuclide chain, solubility limit for parent, using DISTribution
!
/ Allocate space for user-defined variables as needed
ALLOcate space for 1000000 words in user input TABLes
!        C  !Parent
ALLOCATE C2 !Daughter
!
/ Finite-element mesh
GRID is 22 by 22 NODEs
COORdinate X RANGe is 1000 cm
COORdinate Y RANGe is 100 cm
LOCAte ID=DOMAIN as nodes (1,1) to (22,22)
LOCAte ID=INSIDE as nodes (1,1) to (22,22), FIELd only
!
/ Material types
MATErial TYPE 1
MATErial TYPE 2 from COORdinate (0,80) to (1000,90)
!
/ Subregions
LOCAte MATErial type  1 as subregion ID=SOIL
LOCAte MATErial type  2 as subregion ID=WASTE
!
/ Material and nuclide properties
PROPerty for  C  C2 is HARMonic
PROPerty for  C  C2 is TOTAl
!
/ Nuclide properties
DECAy half LIFE for C is 1.e+5 years ! Parent
REGEneration of C2 from C is 1.000   ! Daughter from Parent
!
/ Boundary conditions
BOUNdary C  X- FLUX = 0
BOUNdary C  X+ FLUX = 0
BOUNdary C  Y- in FLOW concentration = 0
BOUNdary C  Y+ in FLOW concentration = 0
!
BOUNdary C2 X- FLUX = 0
BOUNdary C2 X+ FLUX = 0
BOUNdary C2 Y- in FLOW concentration = 0
BOUNdary C2 Y+ in FLOW concentration = 0
!
/ Diagnostic information
DIAGnostic output: TIME  C  C2 for node (11,11) every 100 steps
!
/ Flux output
FLUX C   for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C   for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C   for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
FLUX C2  for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C2  for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C2  for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
SAVE  C  C2 for ID=INSIDE to 'C.sav'  at TIME interval of 25 years
!
LOCAte ID=OBSNOD as nodes (11,2) through (11,21)
HIST  C  C2 for ID=OBSNOD by TIME every 1 years to 'DIST.his'
!
/ Solution controls
MATRix LUDE for C
MATRix LUDE for C2
LIMIt for C  0.0
LIMIt for C2 0.0
!
/ No flow calculation
SET U =    0 cm per yr
SET V = -100 cm per yr
DISAble FLOW
!
/ Inventory
SET C INVEntory in ID=WASTE to  1 mol per unit cm with UNIForm conc
!
/ Transport properties
!
!!FOR material type 1:                              !SOIL
MATErial DENSity   2.6                              !rock grain density (g/cm^3)
ROCK POROsity   0.4                                 !all porosities
TRANsport for C  in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Parent
TRANsport for C2 in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Daughter
!
```

```
!!FOR material type 2:                                          !WASTE
MATErial DENSity   2.6                                          !rock grain density (g/cm^3)
ROCK POROsity   0.4                                             !all porosities
TRANsport for C  in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0   !Parent
TRANsport for C2 in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0   !Daughter
!
!RETAardation of C  in ID=WASTE as (C,kd) TABLe with 3 sets
! (0,641032.39) (1.0e-10,2500027.333) (1.1e-10,1e+20)           !Parent  Cl, kd
RETAardation of C is 2500027.333 in ID=WASTE

!
/ Transport simulation
TIME -0.000001
SOLVE C  C2 0.000001 yrs dt=1 inc=1 max=1                       !to get an initial
SAVE C  C2 for ID=INSIDE to 'C.sav'  NOW                        !concentration
!
TIME 0
SOLVE C  C2  1000 yrs dt=0.1 inc=1 max=1
!
END
QUIT
```

Listing 90: Input Commands for Problem 7.2.6

```
/ Main input file
TITLe radionuclide chain, solubility limit for parent, using RETAribution
!
/ Allocate space for user-defined variables as needed
ALLOcate space for 1000000 words in user input TABLes
!       C  !Parent
ALLOCATE C2 !Daughter
!
/ Finite-element mesh
GRID is 22 by 22 NODEs
COORdinate X RANGe is 1000 cm
COORdinate Y RANGe is 100 cm
LOCAte ID=DOMAIN as nodes (1,1) to (22,22)
LOCAte ID=INSIDE as nodes (1,1) to (22,22), FIELd only
!
/ Material types
MATErial TYPE 1
MATErial TYPE 2 from COORdinate (0,80) to (1000,90)
!
/ Subregions
LOCAte MATErial type  1 as subregion ID=SOIL
LOCAte MATErial type  2 as subregion ID=WASTE
!
/ Material and nuclide properties
PROPerty for  C  C2 is HARMonic
PROPerty for  C  C2 is TOTAl
!
/ Nuclide properties
DECAy half LIFE for C is 1.e+5 years ! Parent
REGEneration of C2 from C is 1.000   ! Daughter from Parent
!
/ Boundary conditions
BOUNdary C  X- FLUX = 0
BOUNdary C  X+ FLUX = 0
BOUNdary C  Y- in FLOW concentration = 0
BOUNdary C  Y+ in FLOW concentration = 0
!
BOUNdary C2 X- FLUX = 0
BOUNdary C2 X+ FLUX = 0
BOUNdary C2 Y- in FLOW concentration = 0
BOUNdary C2 Y+ in FLOW concentration = 0
!
/ Diagnostic information
DIAGnostic output: TIME  C  C2 for node (11,11) every 100 steps
!
/ Flux output
FLUX C   for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C   for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C   for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
FLUX C2  for ID=DOMAIN by TIME every 1 years to 'DIST.flx'
FLUX C2  for ID=WASTE  by TIME every 1 years to 'DIST.flx'
STAT C2  for ID=WASTE  by TIME every 1 years to 'DIST_STAT.out'
!
SAVE  C  C2 for ID=INSIDE to 'C.sav'  at TIME interval of 25 years
!
LOCAte ID=OBSNOD as nodes (11,2) through (11,21)
HIST  C  C2 for ID=OBSNOD by TIME every 1 years to 'DIST.his'
!
/ Solution controls
MATRix LUDE for C
```

```
MATRix LUDE for C2
LIMIt for C  0.0
LIMIt for C2 0.0
!
/ No flow calculation
SET U =     0 cm per yr
SET V = -100 cm per yr
DISAble FLOW
!
/ Inventory
SET C INVEntory in ID=WASTE to  1 mol per unit cm with UNIForm conc
!
/ Transport properties
!
!!FOR material type 1:                                   !SOIL
MATErial DENSity   2.6                                   !rock grain density (g/cm^3)
ROCK POROsity   0.4                                      !all porosities
TRANsport for C  in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0     !Parent
TRANsport for C2 in ID=SOIL Kd= 0.   De=1.6726E+02 aL=0 aT=0     !Daughter
!
!!FOR material type 2:                                   !WASTE
MATErial DENSity   2.6                                   !rock grain density (g/cm^3)
ROCK POROsity   0.4                                      !all porosities
TRANsport for C  in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Parent
TRANsport for C2 in ID=WASTE Kd= 0.   De=1.6726E+02 aL=0 aT=0    !Daughter
!
RETAardation of C  in ID=WASTE as (C,kd) TABLe with 3 sets
 (0,2500027.333) (1.0e-10,2500027.333) (1.1e-10,1e-20)         !Parent  Cl, kd


!
/ Transport simulation
TIME -0.000001
SOLVE C  C2 0.000001 yrs dt=1 inc=1 max=1                !to get an initial
SAVE C  C2 for ID=INSIDE to 'C.sav'  NOW                 !concentration
!
TIME 0
SOLVE C  C2  1000 yrs dt=0.1 inc=1 max=1
!
END
QUIT
```

Listing 91: Input Commands for Problem 7.4

```
*********************************************************************
TITLe STATistics command
*********************************************************************
! 3-D saturated solute transport in a uniform flow field
*********************************************************************

GRID is 83 by 37 by 37 NODEs
COORdinate NODEs X: MINImum=-2.7e+2, MAXImum=9.6e+2
COORdinate NODEs Y: MINImum=-2.7e+2, MAXImum=2.7e+2
COORdinate NODEs Z: MINImum=-2.7e+2, MAXImum=2.7e+2

! Material types and subregions
MATErial type  1 ! total domain

! Material and nuclide properties
PROPerty for C is HARMonic

FOR material type 1:
MATErial DENSITY 1.23077
MATErial POROsity 3*0.35
TRANsport for C  Kd=0 Da=0 aL=21.3 aT=4.3

! Flow conditions
SET S to 1.
SET U to 0.161 ! m/d

! Boundary conditions
BOUNdary C  at X- in VALUe = 0
BOUNdary C  at X+ in GRAD  = 0
BOUNdary C  at Y- in GRAD  = 0
BOUNdary C  at Y+ in GRAD  = 0
BOUNdary C  at Z- in GRAD  = 0
BOUNdary C  at Z+ in GRAD  = 0

LOCAte STATion (x=0.,y=0.,z=0.) output to file 'SRCE.loc'
SOURce for C is constant at 0.11792 kg/d for SELEcted region

! Diagnostic information
DIAGnostic output: TIME DTIME C for node (0.,0.,0.) every 1 steps

! STATistics for Domain
```

```
STATistics for C at TIME every 100 days to 'DOMAIN-STAT.out'

! STATistics for polygon region beyond x = 700
LOCATE ID=RECT EXCLude POLYgon (x,y,z): to file 'RECT.loc'
 Base: (-280,-280,-280) ( 700,-280,-280) ( 700, 280,-280) (-280, 280,-280)
  Top: (-280,-280, 280) ( 700,-280, 280) ( 700, 280, 280) (-280, 280, 280)
STATistics for C at TIME every 100 days to 'RECT-STAT.out' for ID=RECT

! Solution controls
MATRix in X Y Z for C 3 sweeps using ADI
!LIMIt for C   0.0
CONVergence for C  REFErence LOCAl 1.e-6, max iterations = 30

! Solve transient transport
! Time period: 0 to 1400 years
TIME = 0.

SOLVe C for 1400 days in steps of 10 days
SAVE OFF

END
QUIT
```

Listing 92: Input Commands for Problem 7.4.1

```
!===================== TWO CELL TEST ========================================
CPU 1

GRID 4 by 2 NODEs

COORdinate X 0 9 10
COORdinate Y 0 1

LOCAte by IJ indices (1,1) (2,1) (1,2) (2,2) (1,3) (2,3) as ID=LEFT
LOCAte by IJ indices (3,1) (4,1) (3,2) (4,2) (3,3) (4,3) as ID=RIGHT

PROPerty ARIThmetic average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!---------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "U1_1_Arithmetic.dat"
!---------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_10_Arithmetic.dat"
!---------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_1_Arithmetic.dat"
!---------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U1_10_Arithmetic.dat"
!---------------------------------------------------------------------------
END
!====================== 10 CELL TEST ========================================
CPU 1

GRID 12 by 2 NODEs

COORdinate X RANGe 10
COORdinate Y 0 1
```

```
LOCAte ( 1,1) (10,3) as ID=LEFT
LOCAte (11,1) (12,3) as ID=RIGHT

PROPerty ARIThmetic average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_1_Arithmetic.dat"
!----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_10_Arithmetic.dat"
!----------------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_1_Arithmetic.dat"
!----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_10_Arithmetic.dat"
!----------------------------------------------------------------------------------------
END


QUIT
```

Listing 93: Input Commands for Problem 7.4.1

```
!====================== TWO CELL TEST ==========================================
CPU 1

GRID 4 by 2 NODEs

COORdinate X 0 9 10
COORdinate Y 0 1

LOCAte by IJ indices (1,1) (2,1) (1,2) (2,2) (1,3) (2,3) as ID=LEFT
LOCAte by IJ indices (3,1) (4,1) (3,2) (4,2) (3,3) (4,3) as ID=RIGHT

PROPerty ARIThmetic average using TRAVel time option

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "U1_1_Arithmetic.dat"
!----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.
```

```
SOLVe P STEAdy

WRITE U to "U10_10_Arithmetic.dat"
!———————————————————————————————————————————————————————————————————————
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_1_Arithmetic.dat"
!———————————————————————————————————————————————————————————————————————
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U1_10_Arithmetic.dat"
!———————————————————————————————————————————————————————————————————————
END
!====================== 10 CELL TEST ==========================================
CPU 1

GRID 12 by 2 NODEs

COORdinate X RANGe 10
COORdinate Y 0 1

LOCAte ( 1,1) (10,3) as ID=LEFT
LOCAte (11,1) (12,3) as ID=RIGHT

PROPerty ARIThmetic average using TRAVel time option

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!———————————————————————————————————————————————————————————————————————
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_1_Arithmetic.dat"
!———————————————————————————————————————————————————————————————————————
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_10_Arithmetic.dat"
!———————————————————————————————————————————————————————————————————————
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_1_Arithmetic.dat"
!———————————————————————————————————————————————————————————————————————
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_10_Arithmetic.dat"
!———————————————————————————————————————————————————————————————————————
END


QUIT
```

Listing 94: Input Commands for Problem 7.4.2

```
!====================== TWO CELL TEST ==========================================
CPU 1

GRID 4 by 2 NODEs

COORdinate X 0 9 10
```

```
COORdinate Y 0 1

LOCAte by IJ indices (1,1) (2,1) (1,2) (2,2) (1,3) (2,3) as ID=LEFT
LOCAte by IJ indices (3,1) (4,1) (3,2) (4,2) (3,3) (4,3) as ID=RIGHT

PROPerty GEOMetric average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "U1_1_Geometric.dat"
!------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_10_Geometric.dat"
!------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_1_Geometric.dat"
!------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U1_10_Geometric.dat"
!------------------------------------------------------------------------------
END
!===================== 10 CELL TEST ==========================================
CPU 1

GRID 12 by 2 NODEs

COORdinate X RANGe 10
COORdinate Y 0 1

LOCAte ( 1,1) (10,3) as ID=LEFT
LOCAte (11,1) (12,3) as ID=RIGHT

PROPerty GEOMetric average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_1_Geometric.dat"
!------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_10_Geometric.dat"
!------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.
```

```
SOLVe P STEAdy

WRITE U to "UU10_1_Geometric.dat"
!------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_10_Geometric.dat"
!------------------------------------------------------------------------------------
END


QUIT
```

Listing 95: Input Commands for Problem 7.4.2

```
!===================== TWO CELL TEST ========================================
CPU 1

GRID 4 by 2 NODEs

COORdinate X 0 9 10
COORdinate Y 0 1

LOCAte by IJ indices (1,1) (2,1) (1,2) (2,2) (1,3) (2,3) as ID=LEFT
LOCAte by IJ indices (3,1) (4,1) (3,2) (4,2) (3,3) (4,3) as ID=RIGHT

PROPerty GEOMetric average using TRAVel time option

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "U1_1_Geometric.dat"
!------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_10_Geometric.dat"
!------------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_1_Geometric.dat"
!------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U1_10_Geometric.dat"
!------------------------------------------------------------------------------------
END
!===================== 10 CELL TEST ========================================
CPU 1

GRID 12 by 2 NODEs

COORdinate X RANGe 10
COORdinate Y 0 1

LOCAte ( 1,1) (10,3) as ID=LEFT
LOCAte (11,1) (12,3) as ID=RIGHT

PROPerty GEOMetric average using TRAVel time option
```

```
BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!----------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_1_Geometric.dat"
!----------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_10_Geometric.dat"
!----------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_1_Geometric.dat"
!----------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_10_Geometric.dat"
!----------------------------------------------------------------------------------
END


QUIT
```

Listing 96: Input Commands for Problem 7.4.3

```
!===================== TWO CELL TEST ========================================
CPU 1

GRID 4 by 2 NODEs

COORdinate X 0 9 10
COORdinate Y 0 1

LOCAte by IJ indices (1,1) (2,1) (1,2) (2,2) (1,3) (2,3) as ID=LEFT
LOCAte by IJ indices (3,1) (4,1) (3,2) (4,2) (3,3) (4,3) as ID=RIGHT

PROPerty HARMonic average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!----------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "U1_1_Harmonic.dat"
!----------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_10_Harmonic.dat"
!----------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
```

```
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_1_Harmonic.dat"
!---------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U1_10_Harmonic.dat"
!---------------------------------------------------------------------------------
END
!====================== 10 CELL TEST ==========================================
CPU 1

GRID 12 by 2 NODEs

COORdinate X RANGe 10
COORdinate Y 0 1

LOCAte ( 1,1) (10,3) as ID=LEFT
LOCAte (11,1) (12,3) as ID=RIGHT

PROPerty HARMonic average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!---------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_1_Harmonic.dat"
!---------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_10_Harmonic.dat"
!---------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_1_Harmonic.dat"
!---------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_10_Harmonic.dat"
!---------------------------------------------------------------------------------
END


QUIT
```

Listing 97: Input Commands for Problem 7.4.3

```
!====================== TWO CELL TEST =========================================
CPU 1

GRID 4 by 2 NODEs

COORdinate X 0 9 10
COORdinate Y 0 1

LOCAte by IJ indices (1,1) (2,1) (1,2) (2,2) (1,3) (2,3) as ID=LEFT
LOCAte by IJ indices (3,1) (4,1) (3,2) (4,2) (3,3) (4,3) as ID=RIGHT

PROPerty HARMonic average using TRAVel time option
```

```
BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!-----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "U1_1_Harmonic.dat"
!-----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_10_Harmonic.dat"
!-----------------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_1_Harmonic.dat"
!-----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U1_10_Harmonic.dat"
!-----------------------------------------------------------------------------------------
END
!===================== 10 CELL TEST ==========================================
CPU 1

GRID 12 by 2 NODEs

COORdinate X RANGe 10
COORdinate Y 0 1

LOCAte ( 1,1) (10,3) as ID=LEFT
LOCAte (11,1) (12,3) as ID=RIGHT

PROPerty HARMonic average using TRAVel time option

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!-----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_1_Harmonic.dat"
!-----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_10_Harmonic.dat"
!-----------------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_1_Harmonic.dat"
!-----------------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
```

```
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_10_Harmonic.dat"
!——————————————————————————————————————————————————————————————————————
END


QUIT
```

Listing 98: Input Commands for Problem 7.5

```
GRID NODEs 7 BY 20 BY 8
/
COORdinate X RANGE   10.
COORdinate R MINImum 0.1993, max. 50. with an expansion ratio of 1.2
COORdinate Z RANGE 6.28 RADIAN
/
PERIODIC X BOUNDARY
PERIODIC Z BOUNDARY
/
LOCATE ID=LINER       from (1,1,1) to (100,1,100)
LOCATE ID=BOREHOLE1   from (3,1,2) TO (3,4,2)
LOCATE ID=BOREHOLE2  FROM (3,4,2) TO (3,4,3)
LOCATE ID=BOREHOLE3  FROM (3,4,3) TO (3,6,3)
LOCATE ID=BOREHOLE4  FROM (3,6,3) TO (3,6,4)
LOCATE ID=BOREHOLE5  FROM (3,6,4) TO (3,8,4)
LOCATE ID=BOREHOLE6  FROM (5,1,4) TO (5,4,4)
LOCATE ID=BOREHOLE7  FROM (5,4,4) TO (5,4,5)
LOCATE ID=BOREHOLE8  FROM (5,4,5) TO (5,6,5)
LOCATE ID=BOREHOLE9  FROM (5,6,5) TO (5,6,6)
LOCATE ID=BOREHOLE10 FROM (5,6,6) TO (5,8,6)
LOCATE ID=HIS         LIST IJK AT 3,2,2; 5,2,4; 4,4,4; 4,6,4; 4,6,5
/
HISTORY ID=BOREHOLE1 EVERY 1 STEP on file 'hA.his'
/
HISTORY ID=BOREHOLE1 UNFORMatted STREAm COMPact EVERY 1 STEP on file 'hB.his'
/
BOREHOLE ID=BOREHOLE1  with dia = 0.05
BOREHOLE ID=BOREHOLE2  with dia = 0.05
BOREHOLE ID=BOREHOLE3  with dia = 0.05
BOREHOLE ID=BOREHOLE4  with dia = 0.05
BOREHOLE ID=BOREHOLE5  with dia = 0.05
BOREHOLE ID=BOREHOLE6  with dia = 0.05
BOREHOLE ID=BOREHOLE7  with dia = 0.05
BOREHOLE ID=BOREHOLE8  with dia = 0.05
BOREHOLE ID=BOREHOLE9  with dia = 0.05
BOREHOLE ID=BOREHOLE10 with dia = 0.05
/
HYDRAULIC SS = 0.1, KX=1., KY =1., KZ=1.
HYDRAULIC SS = 0.1, KX=1.E-6, KY =1.E-6, KZ=1.E-6 ID=LINER
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE1
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE2
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE3
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE4
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE5
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE6
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE7
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE8
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE9
HYDRAULIC SS = 0.1, KX=1.E2, KY =1.E2, KZ=1.E2  ID=BOREHOLE10
/
SET LINEar function: P  = 0. + 0.1 * Y
/
DIAGNOSTIC NODE AT 2,5,2 PRINT EVERY 20 STEPS
DEBUG GEOMETRY OFF
/
/ SELEct window (4,1,1) to (4,100,100), (1,2,1)
/ OUTPut YZ planes for SELEcted window
OUTPUT OFF
/
SAVE OFF
/
SOLVE TO 100 TIME UNITS IN STEPS OF 2.0
/
END
/
```

A.8 System

Listing 99: Input Commands for Problem 3.1 test 1

```
!***********************************************************************
TITLe A minimal PORFLOW example
!***********************************************************************

GRID is 3 by 3 NODEs
COORdinate X: NODE values: MINImum=0.0, MAXImum=2.e2
COORdinate Y: 0.,20.,40 at NODES

GRAVity 0. 0. 0. 0.

HYDRaulic properties S = 0., Kx = 0.2 ft/d, Ky = 0.2 ft/d

SET P = 0 everywhere initially

BOUNdary condition for P: X-, VALUe = 50.
BOUNdary condition for P: X+, MIXEd FLUX type: value=50. CL=0.001
BOUNdary condition for P: Y-, FLUX  = 0.
BOUNdary condition for P: Y+, FLUX  = 0.

! Solution controls
MATRix ITERation 5

CONVergence REFErence based on ALL: Tolerance = 1.E-1, 10 outer iterations

SOLVe P in STEAdy mode: max=3, min=3

END
```

Listing 100: Input Commands for Problem 3.1 test 2

```
!===================== TWO CELL TEST ========================================
CPU 1

GRID 4 by 2 NODEs

COORdinate X 0 9 10
COORdinate Y 0 1

LOCAte by IJ indices (1,1) (2,1) (1,2) (2,2) (1,3) (2,3) as ID=LEFT
LOCAte by IJ indices (3,1) (4,1) (3,2) (4,2) (3,3) (4,3) as ID=RIGHT

PROPerty HARMonic average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!----------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "U1_1_Harmonic.dat"
!----------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_10_Harmonic.dat"
!----------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_1_Harmonic.dat"
!----------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U1_10_Harmonic.dat"
!----------------------------------------------------------------------------
END
!===================== 10 CELL TEST =========================================
```

```
CPU 1

GRID 12 by 2 NODEs

COORdinate X RANGe 10
COORdinate Y 0 1

LOCAte ( 1,1) (10,3) as ID=LEFT
LOCAte (11,1) (12,3) as ID=RIGHT

PROPerty HARMonic average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!--------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_1_Harmonic.dat"
!--------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_10_Harmonic.dat"
!--------------------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_1_Harmonic.dat"
!--------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_10_Harmonic.dat"
!--------------------------------------------------------------------------------
END


QUIT
```

Listing 101: Input Commands for Problem 3.1 test 3

```
!===================== TWO CELL TEST ======================================
TITLe Now I have a title

CPU 1

GRID 4 by 2 NODEs

COORdinate X 0 9 10
COORdinate Y 0 1

LOCAte by IJ indices (1,1) (2,1) (1,2) (2,2) (1,3) (2,3) as ID=LEFT
LOCAte by IJ indices (3,1) (4,1) (3,2) (4,2) (3,3) (4,3) as ID=RIGHT

PROPerty HARMonic average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!--------------------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.
```

```
SOLVe P STEAdy

WRITE U to "U1_1_Harmonic.dat"
!-----------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_10_Harmonic.dat"
!-----------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "U10_1_Harmonic.dat"
!-----------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "U1_10_Harmonic.dat"
!-----------------------------------------------------------------------
END
!====================== 10 CELL TEST ==========================================
CPU 1

GRID 12 by 2 NODEs

COORdinate X RANGe 10
COORdinate Y 0 1

LOCAte ( 1,1) (10,3) as ID=LEFT
LOCAte (11,1) (12,3) as ID=RIGHT

PROPerty HARMonic average

BOUNdary X- P VALUe 10.
BOUNdary X+ P VALUe 0.
BOUNdary Y- P FLUX  0.
BOUNdary Y+ P FLUX  0.

POROsity is 0.5

MATRix LUDE

!-----------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 1.  ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 1.  ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_1_Harmonic.dat"
!-----------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_10_Harmonic.dat"
!-----------------------------------------------------------------------
CPU 1
HYDRaulic conductivity in ID=LEFT  alpha=0. kx = 10. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx =  1. ky = 1.

SOLVe P STEAdy

WRITE U to "UU10_1_Harmonic.dat"
!-----------------------------------------------------------------------
HYDRaulic conductivity in ID=LEFT  alpha=0. kx =  1. ky = 1.
HYDRaulic conductivity in ID=RIGHT alpha=0. kx = 10. ky = 1.

SOLVe P STEAdy

WRITE U to "UU1_10_Harmonic.dat"
!-----------------------------------------------------------------------
END


QUIT
```

Appendix B Output Results

B.4 Flow

Table B.4.1: Output for Problem 4.1.1-25

x	$A(x)$	P_{v1}	P_{v2}
0	50.00	50.00	50.00
20	48.75	48.75	48.75
40	47.50	47.49	47.49
60	46.25	46.24	46.24
80	45.00	44.99	44.99
100	43.75	43.73	43.73
120	42.50	42.48	42.48
140	41.25	41.23	41.23
160	40.00	39.97	39.97
180	38.75	38.72	38.72
199	37.56	37.53	37.53

Table B.4.2: Output for Problem 4.1.1-50

x	$A(x)$	P_{v1}	P_{v2}
0	50.00	50.00	50.00
20	50.00	50.00	50.00
40	50.00	50.00	50.00
60	50.00	50.00	50.00
80	50.00	50.00	50.00
100	50.00	50.00	50.00
120	50.00	50.00	50.00
140	50.00	50.00	50.00
160	50.00	50.00	50.00
180	50.00	50.00	50.00
199	50.00	50.00	50.00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}

Table B.4.3: Output for Problem 4.1.1-100

x	$A(x)$	P_{v1}	P_{v2}
0	50.00	50.00	50.00
20	52.50	52.51	52.51
40	55.00	55.01	55.01
60	57.50	57.52	57.52
80	60.00	60.03	60.03
100	62.50	62.53	62.53
120	65.00	65.04	65.04
140	67.50	67.54	67.54
160	70.00	70.05	70.05
180	72.50	72.56	72.56
199	74.88	74.94	74.94

Table B.4.4: Output for Problem 4.1.2-41-P

x	$A(x)$	P_{v1}	P_{v2}
200	66.0	66.0	66.0

Table B.4.5: Output for Problem 4.1.2-45-P

x	$A(x)$	P_{v1}	P_{v2}
200	70.0	70.0	70.0

Table B.4.6: Output for Problem 4.1.2-50-P

x	$A(x)$	P_{v1}	P_{v2}
200	75.0	75.0	75.0

Table B.4.7: Output for Problem 4.1.2-60-P

x	$A(x)$	P_{v1}	P_{v2}
200	80.0	80.0	80.0

Table B.4.8: Output for Problem 4.1.2-75-P

x	$A(x)$	P_{v1}	P_{v2}
200	87.5	87.5	87.5

Table B.4.9: Output for Problem 4.1.2-90-P

x	$A(x)$	P_{v1}	P_{v2}
200	95.0	95.0	95.0

Table B.4.10: Output for Problem 4.1.2-100-P

x	$A(x)$	P_{v1}	P_{v2}
200	100.0	100.0	100.0

Table B.4.11: Output for Problem 4.1.2-110-P

x	$A(x)$	P_{v1}	P_{v2}
200	105.0	105.0	105.0

Table B.4.12: Output for Problem 4.1.2-140-P

x	$A(x)$	P_{v1}	P_{v2}
200	120.0	120.0	120.0

Table B.4.13: Output for Problem 4.1.2-41-U

x	$A(x)$	P_{v1}	P_{v2}
200	-0.0250	-0.0250	-0.0250

Table B.4.14: Output for Problem 4.1.2-45-U

x	$A(x)$	P_{v1}	P_{v2}
200	-0.0250	-0.0250	-0.0250

Table B.4.15: Output for Problem 4.1.2-50-U

x	$A(x)$	P_{v1}	P_{v2}
200	-0.0250	-0.0250	-0.0250

Table B.4.16: Output for Problem 4.1.2-60-U

x	$A(x)$	P_{v1}	P_{v2}
200	-0.0200	-0.0200	-0.0200

Table B.4.17: Output for Problem 4.1.2-75-U

x	$A(x)$	P_{v1}	P_{v2}
200	-0.0125	-0.0125	-0.0125

Table B.4.18: Output for Problem 4.1.2-90-U

x	$A(x)$	P_{v1}	P_{v2}
200	-0.0050	-0.0050	-0.0050

Table B.4.19: Output for Problem 4.1.2-100-U

x	$A(x)$	P_{v1}	P_{v2}
200	0.0000	-0.0000	-0.0000

Table B.4.20: Output for Problem 4.1.2-110-U

x	$A(x)$	P_{v1}	P_{v2}
200	0.0050	0.0050	0.0050

Table B.4.21: Output for Problem 4.1.2-140-U

x	$A(x)$	P_{v1}	P_{v2}
200	0.0200	0.0200	0.0200

Table B.4.22: Output for Problem 4.2.1

x	$A(x)$	P_{v1}	P_{v2}
0	40.000	40.000	40.000
10	38.471	38.383	38.383
20	36.878	36.739	36.739
30	35.214	35.042	35.042
40	33.466	33.273	33.273
50	31.623	31.412	31.412
60	29.665	29.440	29.440
70	27.568	27.332	27.332
80	25.298	25.061	25.061
90	22.804	22.605	22.605
100	20.000	20.000	20.000

Table B.4.23: Output for Problem 4.2.2

x	$A(x)$	P_{v1}	P_{v2}
0	164.000	164.459	164.459
40	167.905	167.659	167.659

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
80	171.628	171.256	171.256
120	175.180	174.749	174.749
160	178.572	178.116	178.116
200	181.813	181.348	181.348
240	184.911	184.445	184.445
280	187.872	187.410	187.410
320	190.704	190.246	190.246
360	193.411	192.959	192.959
400	196.000	195.554	195.554
440	198.474	198.035	198.035
480	200.838	200.405	200.405
520	203.096	202.668	202.668
560	205.251	204.829	204.829
600	207.307	206.891	206.891
640	209.265	208.855	208.855
680	211.130	210.724	210.724
720	212.904	212.502	212.502
760	214.588	214.191	214.191
800	216.185	215.793	215.793
840	217.697	217.310	217.310
880	219.126	218.743	218.743
920	220.472	220.092	220.092
960	221.739	221.360	221.360
1000	222.926	222.548	222.548
1040	224.036	223.660	223.660
1080	225.069	224.696	224.696
1120	226.027	225.658	225.658
1160	226.910	226.545	226.545
1200	227.719	227.358	227.358
1240	228.456	228.096	228.096
1280	229.120	228.760	228.760
1320	229.713	229.349	229.349
1360	230.235	229.865	229.865
1400	230.686	230.309	230.309
1440	231.067	230.683	230.683
1480	231.378	230.988	230.988
1520	231.620	231.225	231.225
1560	231.793	231.393	231.393
1600	231.897	231.495	231.495
1640	231.931	231.526	231.526

Table B.4.24: Output for Problem 4.3-50

x	$A(x)$	P_{v1}	P_{v2}
0	160.000	160.000	160.000
20	159.312	159.329	159.329
40	158.619	158.653	158.653
60	157.922	157.971	157.971
80	157.220	157.285	157.285
100	156.514	156.593	156.593
120	155.803	155.896	155.896
140	155.087	155.193	155.193
160	154.367	154.486	154.486
180	153.643	153.772	153.772
200	152.914	153.054	153.054
220	152.180	152.330	152.330
240	151.442	151.601	151.601
260	150.699	150.866	150.866
280	149.951	150.127	150.127
300	149.199	149.382	149.382
320	148.442	148.632	148.632
340	147.681	147.877	147.877
360	146.916	147.117	147.117
380	146.145	146.351	146.351
400	145.370	145.580	145.580
420	144.591	144.804	144.804
440	143.807	144.023	144.023
460	143.018	143.237	143.237
480	142.225	142.445	142.445
500	141.428	141.649	141.649
520	140.625	140.847	140.847
540	139.818	140.040	140.040
560	139.007	139.227	139.227
580	138.191	138.410	138.410
600	137.370	137.587	137.587
620	136.545	136.759	136.759
640	135.716	135.926	135.926
660	134.881	135.087	135.087
680	134.042	134.243	134.243
700	133.199	133.394	133.394
720	132.351	132.539	132.539

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
740	131.499	131.679	131.679
760	130.642	130.813	130.813
780	129.780	129.942	129.942
800	128.914	129.066	129.066
820	128.043	128.184	128.184
840	127.167	127.297	127.297
860	126.287	126.404	126.404
880	125.403	125.505	125.505
900	124.514	124.602	124.602
920	123.620	123.692	123.692
940	122.722	122.777	122.777
960	121.819	121.856	121.856
980	120.912	120.931	120.931
1000	120.000	120.000	120.000

Table B.4.25: Output for Problem 4.3-160

x	$A(x)$	P_{v1}	P_{v2}
0	170.000	170.000	170.000
20	169.293	169.265	169.265
40	168.582	168.518	168.518
60	167.869	167.752	167.752
80	167.153	166.993	166.993
100	166.433	166.260	166.260
120	165.711	165.481	165.481
140	164.985	164.727	164.727
160	164.256	164.002	164.002
180	163.524	163.222	163.222
200	162.788	162.487	162.487
220	162.049	161.703	161.703
240	161.307	160.937	160.937
260	160.562	160.215	160.215
280	159.812	159.419	159.419
300	159.060	158.653	158.653
320	158.304	157.924	157.924
340	157.544	157.133	157.133
360	156.780	156.387	156.387
380	156.013	155.589	155.589
400	155.242	154.811	154.811

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
420	154.467	154.068	154.068
440	153.688	153.273	153.273
460	152.905	152.506	152.506
480	152.118	151.710	151.710
500	151.327	150.921	150.921
520	150.532	150.156	150.156
540	149.733	149.354	149.354
560	148.930	148.569	148.569
580	148.122	147.768	147.768
600	147.309	146.966	146.966
620	146.492	146.181	146.181
640	145.671	145.368	145.368
660	144.845	144.564	144.564
680	144.014	143.747	143.747
700	143.178	142.929	142.929
720	142.338	142.122	142.122
740	141.492	141.294	141.294
760	140.641	140.469	140.469
780	139.786	139.628	139.628
800	138.924	138.790	138.790
820	138.058	137.958	137.958
840	137.186	137.109	137.109
860	136.308	136.257	136.257
880	135.425	135.388	135.388
900	134.536	134.517	134.517
920	133.641	133.630	133.630
940	132.740	132.739	132.739
960	131.833	131.844	131.844
980	130.920	130.930	130.930
1000	130.000	130.000	130.000

Table B.4.26: Output for Problem 4.4.1

x	$A(x)$	P_{v1}	P_{v2}
0	80.000	80.000	80.000
50	79.545	79.569	79.569
100	79.001	79.021	79.021
150	78.365	78.378	78.378
200	77.637	77.640	77.640

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
250	76.812	76.814	76.814
300	75.888	75.882	75.882
350	74.862	74.846	74.846
400	73.728	73.717	73.717
450	72.483	72.469	72.469
500	71.119	71.096	71.096
550	69.631	69.612	69.612
600	68.009	68.034	68.034
650	66.245	66.315	66.315
700	64.326	64.432	64.432
750	62.238	62.372	62.372
800	59.963	60.135	60.135
850	57.500	57.785	57.785
900	55.000	55.330	55.330
950	52.500	52.761	52.761
1000	50.000	50.000	50.000

Table B.4.27: Output for Problem 4.4.2

x	$A(x)$	P_{v1}	P_{v2}
0	80.000	80.000	80.000
50	79.545	79.564	79.564
100	79.001	79.011	79.011
150	78.365	78.363	78.363
200	77.637	77.619	77.619
250	76.812	76.786	76.786
300	75.888	75.848	75.848
350	74.862	74.804	74.804
400	73.728	73.666	73.666
450	72.483	72.409	72.409
500	71.119	71.023	71.023
550	69.631	69.524	69.524
600	68.009	67.932	67.932
650	66.245	66.198	66.198
700	64.326	64.298	64.298
750	62.238	62.217	62.217
800	59.963	59.950	59.950
850	57.500	57.535	57.535
900	55.000	55.057	55.057

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x	$A(x)$	P_{v1}	P_{v2}
950	52.500	52.553	52.553
1000	50.000	50.000	50.000

Table B.4.28: Output for Problem 4.4.3-LH-RH

x	$A(x)$	P_{v1}	P_{v2}
762	-456.2258750000	-456.2258750000	50.000
2286	-455.3858110000	-455.3858110000	50.000
3810	-455.3483940000	-455.3483940000	50.000
5334	-455.3281090000	-455.3281090000	50.000
6858	-455.3150340000	-455.3150340000	50.000
8382	-455.3002700000	-455.3002700000	50.000
9906	-455.2852060000	-455.2852060000	50.000
11430	-455.2725420000	-455.2725420000	50.000
12954	-455.2636880000	-455.2636880000	50.000
14478	-455.2588920000	-455.2588920000	50.000
16002	-455.2588920000	-455.2588920000	50.000
17526	-455.2636880000	-455.2636880000	50.000
19050	-455.2725420000	-455.2725420000	50.000
20574	-455.2852060000	-455.2852060000	50.000
22098	-455.3002700000	-455.3002700000	50.000
23622	-455.3150340000	-455.3150340000	50.000
25146	-455.3281090000	-455.3281090000	50.000
26670	-455.3483940000	-455.3483940000	50.000
28194	-455.3858110000	-455.3858110000	50.000
29718	-456.2258750000	-456.2258750000	50.000

Table B.4.29: Output for Problem 4.4.3-LH-RL

x	$A(x)$	P_{v1}	P_{v2}
762	-456.2296470000	-456.2296470000	50.000
2286	-455.3919440000	-455.3919440000	50.000
3810	-455.3625420000	-455.3625420000	50.000
5334	-455.3507550000	-455.3507550000	50.000
6858	-455.3399900000	-455.3399900000	50.000
8382	-455.3313020000	-455.3313020000	50.000
9906	-455.3272940000	-455.3272940000	50.000

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x	$A(x)$	P_{v1}	P_{v2}
11430	-455.3269810000	-455.3269810000	50.000
12954	-455.3727520000	-455.3727520000	50.000
14478	-457.5684290000	-457.5684290000	50.000
16002	-851.2392860000	-851.2392860000	50.000
17526	-882.6099020000	-882.6099020000	50.000
19050	-884.6430200000	-884.6430200000	50.000
20574	-885.4616730000	-885.4616730000	50.000
22098	-886.2219780000	-886.2219780000	50.000
23622	-886.9754720000	-886.9754720000	50.000
25146	-887.7102930000	-887.7102930000	50.000
26670	-888.4264090000	-888.4264090000	50.000
28194	-889.3525810000	-889.3525810000	50.000
29718	-896.9710670000	-896.9710670000	50.000

Table B.4.30: Output for Problem 4.4.3-LL-RH

x	$A(x)$	P_{v1}	P_{v2}
762	-896.9710670000	-896.9710670000	50.000
2286	-889.3525810000	-889.3525810000	50.000
3810	-888.4264090000	-888.4264090000	50.000
5334	-887.7102930000	-887.7102930000	50.000
6858	-886.9754720000	-886.9754720000	50.000
8382	-886.2219780000	-886.2219780000	50.000
9906	-885.4616730000	-885.4616730000	50.000
11430	-884.6430200000	-884.6430200000	50.000
12954	-882.6099020000	-882.6099020000	50.000
14478	-851.2392860000	-851.2392860000	50.000
16002	-457.5684290000	-457.5684290000	50.000
17526	-455.3727520000	-455.3727520000	50.000
19050	-455.3269810000	-455.3269810000	50.000
20574	-455.3272940000	-455.3272940000	50.000
22098	-455.3313020000	-455.3313020000	50.000
23622	-455.3399900000	-455.3399900000	50.000
25146	-455.3507550000	-455.3507550000	50.000
26670	-455.3625420000	-455.3625420000	50.000
28194	-455.3919440000	-455.3919440000	50.000
29718	-456.2296470000	-456.2296470000	50.000

Table B.4.31: Output for Problem 4.4.3-LL-RL

x	$A(x)$	P_{v1}	P_{v2}
762	-897.3144590000	-897.3144590000	50.000
2286	-890.0978850000	-890.0978850000	50.000
3810	-889.6749580000	-889.6749580000	50.000
5334	-889.5117340000	-889.5117340000	50.000
6858	-889.3778770000	-889.3778770000	50.000
8382	-889.2657970000	-889.2657970000	50.000
9906	-889.1756400000	-889.1756400000	50.000
11430	-889.1104070000	-889.1104070000	50.000
12954	-889.0681630000	-889.0681630000	50.000
14478	-889.0470300000	-889.0470300000	50.000
16002	-889.0470300000	-889.0470300000	50.000
17526	-889.0681630000	-889.0681630000	50.000
19050	-889.1104070000	-889.1104070000	50.000
20574	-889.1756400000	-889.1756400000	50.000
22098	-889.2657970000	-889.2657970000	50.000
23622	-889.3778770000	-889.3778770000	50.000
25146	-889.5117340000	-889.5117340000	50.000
26670	-889.6749580000	-889.6749580000	50.000
28194	-890.0978850000	-890.0978850000	50.000
29718	-897.3144590000	-897.3144590000	50.000

Table B.4.32: Output for Problem 4.5-120

x	$A(x)$	P_{v1}	P_{v2}
0.000e+00	0.0000e+00	0.0000e+00	0.0000e+00
1.200e+02	6.2729e-03	5.6947e-03	5.6947e-03
2.400e+02	2.8999e-02	2.7228e-02	2.7228e-02
3.600e+02	5.3227e-02	5.1300e-02	5.1300e-02
4.800e+02	7.5208e-02	7.3423e-02	7.3423e-02
6.000e+02	9.4703e-02	9.3116e-02	9.3116e-02
7.200e+02	1.1204e-01	1.1064e-01	1.1064e-01
8.400e+02	1.2757e-01	1.2635e-01	1.2635e-01
9.600e+02	1.4161e-01	1.4054e-01	1.4054e-01
1.080e+03	1.5440e-01	1.5346e-01	1.5346e-01
1.200e+03	1.6614e-01	1.6532e-01	1.6532e-01
1.320e+03	1.7699e-01	1.7626e-01	1.7626e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.440e+03	1.8705e-01	1.8641e-01	1.8641e-01
1.560e+03	1.9645e-01	1.9589e-01	1.9589e-01
1.680e+03	2.0526e-01	2.0476e-01	2.0476e-01
1.800e+03	2.1354e-01	2.1311e-01	2.1311e-01
1.920e+03	2.2137e-01	2.2098e-01	2.2098e-01
2.040e+03	2.2879e-01	2.2844e-01	2.2844e-01
2.160e+03	2.3580e-01	2.3552e-01	2.3552e-01
2.280e+03	2.4250e-01	2.4225e-01	2.4225e-01
2.400e+03	2.4889e-01	2.4868e-01	2.4868e-01
2.520e+03	2.5499e-01	2.5482e-01	2.5482e-01
2.640e+03	2.6084e-01	2.6070e-01	2.6070e-01
2.760e+03	2.6646e-01	2.6635e-01	2.6635e-01
2.880e+03	2.7186e-01	2.7177e-01	2.7177e-01
3.000e+03	2.7706e-01	2.7699e-01	2.7699e-01
3.120e+03	2.8206e-01	2.8202e-01	2.8202e-01
3.240e+03	2.8690e-01	2.8688e-01	2.8688e-01
3.360e+03	2.9157e-01	2.9157e-01	2.9157e-01
3.480e+03	2.9609e-01	2.9611e-01	2.9611e-01
3.600e+03	3.0046e-01	3.0050e-01	3.0050e-01

Table B.4.33: Output for Problem 4.5-3600

x	$A(x)$	P_{v1}	P_{v2}
0.000e+00	0.0000e+00	0.0000e+00	0.0000e+00
3.600e+03	3.0046e-01	3.0050e-01	3.0050e-01
7.200e+03	3.9177e-01	3.9208e-01	3.9208e-01
1.080e+04	4.4645e-01	4.4673e-01	4.4673e-01
1.440e+04	4.8551e-01	4.8581e-01	4.8581e-01
1.800e+04	5.1561e-01	5.1626e-01	5.1626e-01
2.160e+04	5.3996e-01	5.4119e-01	5.4119e-01
2.520e+04	5.6045e-01	5.6232e-01	5.6232e-01
2.880e+04	5.8026e-01	5.8064e-01	5.8064e-01
3.240e+04	5.9632e-01	5.9682e-01	5.9682e-01
3.600e+04	6.1060e-01	6.1130e-01	6.1130e-01
3.960e+04	6.2344e-01	6.2441e-01	6.2441e-01
4.320e+04	6.3510e-01	6.3639e-01	6.3639e-01
4.680e+04	6.4580e-01	6.4741e-01	6.4741e-01
5.040e+04	6.5570e-01	6.5762e-01	6.5762e-01
5.400e+04	6.6493e-01	6.6712e-01	6.6712e-01

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x	$A(x)$	P_{v1}	P_{v2}
5.760e+04	6.7360e-01	6.7602e-01	6.7602e-01
6.120e+04	6.8179e-01	6.8438e-01	6.8438e-01
6.480e+04	6.8958e-01	6.9226e-01	6.9226e-01
6.840e+04	6.9700e-01	6.9971e-01	6.9971e-01
7.200e+04	7.0412e-01	7.0679e-01	7.0679e-01
7.560e+04	7.1097e-01	7.1352e-01	7.1352e-01
7.920e+04	7.1757e-01	7.1994e-01	7.1994e-01
8.280e+04	7.2395e-01	7.2607e-01	7.2607e-01
8.640e+04	7.3013e-01	7.3195e-01	7.3195e-01

Table B.4.34: Output for Problem 4.6-X00-Y55

x	$A(x)$	P_{v1}	P_{v2}
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
8.6400e+01	5.9616e-15	0.0000e+00	0.0000e+00
1.7280e+02	1.8242e-08	1.1938e-05	1.1938e-05
2.5920e+02	3.0960e-06	1.1938e-05	1.1938e-05
3.4560e+02	4.3379e-05	2.3861e-04	2.3861e-04
4.3200e+02	2.2040e-04	5.8765e-04	5.8765e-04
5.1840e+02	6.6899e-04	5.8765e-04	5.8765e-04
6.0480e+02	1.5061e-03	5.8765e-04	5.8765e-04
6.9120e+02	2.8054e-03	3.4190e-03	3.4190e-03
7.7760e+02	4.5974e-03	5.1139e-03	5.1139e-03
8.6400e+02	6.8798e-03	7.2168e-03	7.2168e-03
9.5040e+02	9.6287e-03	7.2168e-03	7.2168e-03
1.0368e+03	1.2808e-02	7.2168e-03	7.2168e-03
1.1232e+03	1.6375e-02	1.5874e-02	1.5874e-02
1.2096e+03	2.0287e-02	1.5874e-02	1.5874e-02
1.2960e+03	2.4501e-02	2.3365e-02	2.3365e-02
1.3824e+03	2.8977e-02	2.7535e-02	2.7535e-02
1.4688e+03	3.3679e-02	2.7535e-02	2.7535e-02
1.5552e+03	3.8573e-02	3.6571e-02	3.6571e-02
1.6416e+03	4.3629e-02	3.6571e-02	3.6571e-02
1.7280e+03	4.8821e-02	4.6347e-02	4.6347e-02
1.8144e+03	5.4125e-02	5.1450e-02	5.1450e-02
1.9008e+03	5.9522e-02	5.1450e-02	5.1450e-02
1.9872e+03	6.4991e-02	6.1980e-02	6.1980e-02
2.0736e+03	7.0519e-02	6.1980e-02	6.1980e-02
2.1600e+03	7.6090e-02	7.2824e-02	7.2824e-02

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x	$A(x)$	P_{v1}	P_{v2}
2.2464e+03	8.1694e-02	7.8327e-02	7.8327e-02
2.3328e+03	8.7318e-02	8.3867e-02	8.3867e-02
2.4192e+03	9.2955e-02	8.3867e-02	8.3867e-02
2.5056e+03	9.8596e-02	8.3867e-02	8.3867e-02
2.5920e+03	1.0423e-01	1.0061e-01	1.0061e-01
2.6784e+03	1.0986e-01	1.0621e-01	1.0621e-01
2.7648e+03	1.1548e-01	1.1180e-01	1.1180e-01
2.8512e+03	1.2107e-01	1.1180e-01	1.1180e-01
2.9376e+03	1.2664e-01	1.1180e-01	1.1180e-01
3.0240e+03	1.3219e-01	1.2850e-01	1.2850e-01
3.1104e+03	1.3771e-01	1.3403e-01	1.3403e-01
3.1968e+03	1.4319e-01	1.3953e-01	1.3953e-01
3.2832e+03	1.4864e-01	1.3953e-01	1.3953e-01
3.3696e+03	1.5406e-01	1.3953e-01	1.3953e-01
3.4560e+03	1.5944e-01	1.5585e-01	1.5585e-01
3.5424e+03	1.6478e-01	1.6123e-01	1.6123e-01
3.6288e+03	1.7008e-01	1.6657e-01	1.6657e-01
3.7152e+03	1.7534e-01	1.6657e-01	1.6657e-01
3.8016e+03	1.8056e-01	1.6657e-01	1.6657e-01
3.8880e+03	1.8574e-01	1.6657e-01	1.6657e-01
3.9744e+03	1.9088e-01	1.8754e-01	1.8754e-01
4.0608e+03	1.9597e-01	1.9268e-01	1.9268e-01
4.1472e+03	2.0102e-01	1.9268e-01	1.9268e-01
4.2336e+03	2.0603e-01	2.0285e-01	2.0285e-01
4.3200e+03	2.1100e-01	2.0787e-01	2.0787e-01
4.4064e+03	2.1593e-01	2.0787e-01	2.0787e-01
4.4928e+03	2.2081e-01	2.1778e-01	2.1778e-01
4.5792e+03	2.2565e-01	2.1778e-01	2.1778e-01
4.6656e+03	2.3045e-01	2.2753e-01	2.2753e-01
4.7520e+03	2.3520e-01	2.3234e-01	2.3234e-01
4.8384e+03	2.3992e-01	2.3234e-01	2.3234e-01
4.9248e+03	2.4459e-01	2.4185e-01	2.4185e-01
5.0112e+03	2.4923e-01	2.4185e-01	2.4185e-01
5.0976e+03	2.5382e-01	2.5119e-01	2.5119e-01
5.1840e+03	2.5837e-01	2.5580e-01	2.5580e-01
5.2704e+03	2.6288e-01	2.5580e-01	2.5580e-01
5.3568e+03	2.6736e-01	2.6490e-01	2.6490e-01
5.4432e+03	2.7179e-01	2.6490e-01	2.6490e-01
5.5296e+03	2.7619e-01	2.7384e-01	2.7384e-01
5.6160e+03	2.8055e-01	2.7826e-01	2.7826e-01

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x	$A(x)$	P_{v1}	P_{v2}
5.7024e+03	2.8487e-01	2.7826e-01	2.7826e-01
5.7888e+03	2.8916e-01	2.8697e-01	2.8697e-01
5.8752e+03	2.9340e-01	2.8697e-01	2.8697e-01
5.9616e+03	2.9762e-01	2.9554e-01	2.9554e-01
6.0480e+03	3.0179e-01	2.9978e-01	2.9978e-01
6.1344e+03	3.0593e-01	2.9978e-01	2.9978e-01
6.2208e+03	3.1004e-01	3.0813e-01	3.0813e-01
6.3072e+03	3.1411e-01	3.0813e-01	3.0813e-01
6.3936e+03	3.1815e-01	3.1635e-01	3.1635e-01
6.4800e+03	3.2215e-01	3.2040e-01	3.2040e-01
6.5664e+03	3.2613e-01	3.2040e-01	3.2040e-01
6.6528e+03	3.3006e-01	3.2842e-01	3.2842e-01
6.7392e+03	3.3397e-01	3.2842e-01	3.2842e-01
6.8256e+03	3.3785e-01	3.3630e-01	3.3630e-01
6.9120e+03	3.4169e-01	3.4020e-01	3.4020e-01
6.9984e+03	3.4551e-01	3.4020e-01	3.4020e-01
7.0848e+03	3.4929e-01	3.4789e-01	3.4789e-01
7.1712e+03	3.5304e-01	3.4789e-01	3.4789e-01
7.2576e+03	3.5677e-01	3.5547e-01	3.5547e-01
7.3440e+03	3.6046e-01	3.5547e-01	3.5547e-01
7.4304e+03	3.6413e-01	3.5547e-01	3.5547e-01
7.5168e+03	3.6776e-01	3.6660e-01	3.6660e-01
7.6032e+03	3.7137e-01	3.6660e-01	3.6660e-01
7.6896e+03	3.7496e-01	3.7389e-01	3.7389e-01
7.7760e+03	3.7851e-01	3.7389e-01	3.7389e-01
7.8624e+03	3.8204e-01	3.7389e-01	3.7389e-01
7.9488e+03	3.8554e-01	3.8460e-01	3.8460e-01
8.0352e+03	3.8902e-01	3.8460e-01	3.8460e-01
8.1216e+03	3.9247e-01	3.9161e-01	3.9161e-01
8.2080e+03	3.9589e-01	3.9508e-01	3.9508e-01
8.2944e+03	3.9929e-01	3.9508e-01	3.9508e-01
8.3808e+03	4.0266e-01	3.9508e-01	3.9508e-01
8.4672e+03	4.0601e-01	4.0533e-01	4.0533e-01
8.5536e+03	4.0934e-01	4.0869e-01	4.0869e-01
8.6400e+03	4.1264e-01	4.1204e-01	4.1204e-01
8.7264e+03	4.1592e-01	4.1204e-01	4.1204e-01
8.8128e+03	4.1917e-01	4.1204e-01	4.1204e-01
8.8992e+03	4.2240e-01	4.2192e-01	4.2192e-01
8.9856e+03	4.2561e-01	4.2517e-01	4.2517e-01
9.0720e+03	4.2880e-01	4.2839e-01	4.2839e-01

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x	$A(x)$	P_{v1}	P_{v2}
9.1584e+03	4.3196e-01	4.2839e-01	4.2839e-01
9.2448e+03	4.3511e-01	4.2839e-01	4.2839e-01
9.3312e+03	4.3823e-01	4.3793e-01	4.3793e-01
9.4176e+03	4.4133e-01	4.4107e-01	4.4107e-01
9.5040e+03	4.4441e-01	4.4418e-01	4.4418e-01
9.5904e+03	4.4747e-01	4.4418e-01	4.4418e-01
9.6768e+03	4.5051e-01	4.4418e-01	4.4418e-01
9.7632e+03	4.5352e-01	4.5341e-01	4.5341e-01
9.8496e+03	4.5652e-01	4.5644e-01	4.5644e-01
9.9360e+03	4.5950e-01	4.5945e-01	4.5945e-01
1.0022e+04	4.6246e-01	4.5945e-01	4.5945e-01
1.0109e+04	4.6540e-01	4.5945e-01	4.5945e-01
1.0195e+04	4.6832e-01	4.6837e-01	4.6837e-01
1.0282e+04	4.7123e-01	4.7131e-01	4.7131e-01
1.0368e+04	4.7411e-01	4.7422e-01	4.7422e-01
1.0454e+04	4.7698e-01	4.7422e-01	4.7422e-01
1.0541e+04	4.7982e-01	4.7422e-01	4.7422e-01
1.0627e+04	4.8265e-01	4.8286e-01	4.8286e-01
1.0714e+04	4.8547e-01	4.8570e-01	4.8570e-01
1.0800e+04	4.8826e-01	4.8853e-01	4.8853e-01
1.0886e+04	4.9104e-01	4.8853e-01	4.8853e-01
1.0973e+04	4.9380e-01	4.8853e-01	4.8853e-01
1.1059e+04	4.9654e-01	4.9690e-01	4.9690e-01
1.1146e+04	4.9927e-01	4.9966e-01	4.9966e-01
1.1232e+04	5.0198e-01	5.0240e-01	5.0240e-01
1.1318e+04	5.0468e-01	5.0240e-01	5.0240e-01
1.1405e+04	5.0736e-01	5.0240e-01	5.0240e-01
1.1491e+04	5.1002e-01	5.1052e-01	5.1052e-01
1.1578e+04	5.1267e-01	5.1319e-01	5.1319e-01
1.1664e+04	5.1530e-01	5.1585e-01	5.1585e-01
1.1750e+04	5.1792e-01	5.1585e-01	5.1585e-01
1.1837e+04	5.2052e-01	5.1585e-01	5.1585e-01
1.1923e+04	5.2310e-01	5.2374e-01	5.2374e-01
1.2010e+04	5.2567e-01	5.2634e-01	5.2634e-01
1.2096e+04	5.2823e-01	5.2892e-01	5.2892e-01
1.2182e+04	5.3077e-01	5.2892e-01	5.2892e-01
1.2269e+04	5.3330e-01	5.2892e-01	5.2892e-01
1.2355e+04	5.3582e-01	5.3658e-01	5.3658e-01
1.2442e+04	5.3831e-01	5.3910e-01	5.3910e-01
1.2528e+04	5.4080e-01	5.4161e-01	5.4161e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.2614e+04	5.4327e-01	5.4161e-01	5.4161e-01
1.2701e+04	5.4573e-01	5.4161e-01	5.4161e-01
1.2787e+04	5.4818e-01	5.4906e-01	5.4906e-01
1.2874e+04	5.5061e-01	5.5152e-01	5.5152e-01
1.2960e+04	5.5303e-01	5.5396e-01	5.5396e-01
1.3046e+04	5.5543e-01	5.5396e-01	5.5396e-01
1.3133e+04	5.5783e-01	5.5396e-01	5.5396e-01
1.3219e+04	5.6021e-01	5.6121e-01	5.6121e-01
1.3306e+04	5.6257e-01	5.6360e-01	5.6360e-01
1.3392e+04	5.6493e-01	5.6597e-01	5.6597e-01
1.3478e+04	5.6727e-01	5.6597e-01	5.6597e-01
1.3565e+04	5.6960e-01	5.6597e-01	5.6597e-01
1.3651e+04	5.7192e-01	5.7303e-01	5.7303e-01
1.3738e+04	5.7422e-01	5.7536e-01	5.7536e-01
1.3824e+04	5.7652e-01	5.7767e-01	5.7767e-01
1.3910e+04	5.7880e-01	5.7767e-01	5.7767e-01
1.3997e+04	5.8107e-01	5.7767e-01	5.7767e-01
1.4083e+04	5.8333e-01	5.8455e-01	5.8455e-01
1.4170e+04	5.8558e-01	5.8682e-01	5.8682e-01
1.4256e+04	5.8782e-01	5.8682e-01	5.8682e-01
1.4342e+04	5.9004e-01	5.8682e-01	5.8682e-01
1.4429e+04	5.9226e-01	5.8682e-01	5.8682e-01
1.4515e+04	5.9446e-01	5.9578e-01	5.9578e-01
1.4602e+04	5.9665e-01	5.9799e-01	5.9799e-01
1.4688e+04	5.9883e-01	5.9799e-01	5.9799e-01
1.4774e+04	6.0101e-01	5.9799e-01	5.9799e-01
1.4861e+04	6.0317e-01	5.9799e-01	5.9799e-01
1.4947e+04	6.0532e-01	6.0673e-01	6.0673e-01
1.5034e+04	6.0746e-01	6.0889e-01	6.0889e-01
1.5120e+04	6.0959e-01	6.0889e-01	6.0889e-01
1.5206e+04	6.1171e-01	6.0889e-01	6.0889e-01
1.5293e+04	6.1381e-01	6.0889e-01	6.0889e-01
1.5379e+04	6.1591e-01	6.1742e-01	6.1742e-01
1.5466e+04	6.1800e-01	6.1953e-01	6.1953e-01
1.5552e+04	6.2008e-01	6.1953e-01	6.1953e-01
1.5638e+04	6.2215e-01	6.1953e-01	6.1953e-01
1.5725e+04	6.2421e-01	6.1953e-01	6.1953e-01
1.5811e+04	6.2626e-01	6.2786e-01	6.2786e-01
1.5898e+04	6.2831e-01	6.2992e-01	6.2992e-01
1.5984e+04	6.3034e-01	6.2992e-01	6.2992e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.6070e+04	6.3236e-01	6.2992e-01	6.2992e-01
1.6157e+04	6.3437e-01	6.2992e-01	6.2992e-01
1.6243e+04	6.3638e-01	6.3806e-01	6.3806e-01
1.6330e+04	6.3837e-01	6.4007e-01	6.4007e-01
1.6416e+04	6.4036e-01	6.4207e-01	6.4207e-01
1.6502e+04	6.4234e-01	6.4407e-01	6.4407e-01
1.6589e+04	6.4431e-01	6.4407e-01	6.4407e-01
1.6675e+04	6.4627e-01	6.4803e-01	6.4803e-01
1.6762e+04	6.4822e-01	6.4803e-01	6.4803e-01
1.6848e+04	6.5016e-01	6.5195e-01	6.5195e-01
1.6934e+04	6.5210e-01	6.5390e-01	6.5390e-01
1.7021e+04	6.5402e-01	6.5390e-01	6.5390e-01
1.7107e+04	6.5594e-01	6.5778e-01	6.5778e-01
1.7194e+04	6.5785e-01	6.5778e-01	6.5778e-01
1.7280e+04	6.5975e-01	6.6162e-01	6.6162e-01
1.7366e+04	6.6164e-01	6.6353e-01	6.6353e-01
1.7453e+04	6.6353e-01	6.6353e-01	6.6353e-01
1.7539e+04	6.6541e-01	6.6732e-01	6.6732e-01
1.7626e+04	6.6728e-01	6.6732e-01	6.6732e-01
1.7712e+04	6.6914e-01	6.7108e-01	6.7108e-01
1.7798e+04	6.7099e-01	6.7294e-01	6.7294e-01
1.7885e+04	6.7284e-01	6.7294e-01	6.7294e-01
1.7971e+04	6.7467e-01	6.7666e-01	6.7666e-01
1.8058e+04	6.7650e-01	6.7666e-01	6.7666e-01
1.8144e+04	6.7833e-01	6.8034e-01	6.8034e-01
1.8230e+04	6.8014e-01	6.8217e-01	6.8217e-01
1.8317e+04	6.8195e-01	6.8217e-01	6.8217e-01
1.8403e+04	6.8375e-01	6.8580e-01	6.8580e-01
1.8490e+04	6.8554e-01	6.8580e-01	6.8580e-01
1.8576e+04	6.8733e-01	6.8941e-01	6.8941e-01
1.8662e+04	6.8911e-01	6.9120e-01	6.9120e-01
1.8749e+04	6.9088e-01	6.9120e-01	6.9120e-01
1.8835e+04	6.9265e-01	6.9476e-01	6.9476e-01
1.8922e+04	6.9440e-01	6.9476e-01	6.9476e-01
1.9008e+04	6.9615e-01	6.9830e-01	6.9830e-01
1.9094e+04	6.9790e-01	7.0005e-01	7.0005e-01
1.9181e+04	6.9963e-01	7.0005e-01	7.0005e-01
1.9267e+04	7.0136e-01	7.0355e-01	7.0355e-01
1.9354e+04	7.0309e-01	7.0355e-01	7.0355e-01
1.9440e+04	7.0480e-01	7.0701e-01	7.0701e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.9526e+04	7.0651e-01	7.0873e-01	7.0873e-01
1.9613e+04	7.0822e-01	7.0873e-01	7.0873e-01
1.9699e+04	7.0991e-01	7.1216e-01	7.1216e-01
1.9786e+04	7.1160e-01	7.1216e-01	7.1216e-01
1.9872e+04	7.1329e-01	7.1556e-01	7.1556e-01
1.9958e+04	7.1497e-01	7.1725e-01	7.1725e-01
2.0045e+04	7.1664e-01	7.1725e-01	7.1725e-01
2.0131e+04	7.1830e-01	7.2060e-01	7.2060e-01
2.0218e+04	7.1996e-01	7.2060e-01	7.2060e-01
2.0304e+04	7.2161e-01	7.2394e-01	7.2394e-01
2.0390e+04	7.2333e-01	7.2560e-01	7.2560e-01
2.0477e+04	7.2497e-01	7.2560e-01	7.2560e-01
2.0563e+04	7.2661e-01	7.2889e-01	7.2889e-01
2.0650e+04	7.2816e-01	7.2889e-01	7.2889e-01
2.0736e+04	7.2978e-01	7.3217e-01	7.3217e-01
2.0822e+04	7.3140e-01	7.3379e-01	7.3379e-01
2.0909e+04	7.3301e-01	7.3379e-01	7.3379e-01
2.0995e+04	7.3461e-01	7.3703e-01	7.3703e-01
2.1082e+04	7.3621e-01	7.3703e-01	7.3703e-01
2.1168e+04	7.3780e-01	7.4024e-01	7.4024e-01
2.1254e+04	7.3939e-01	7.4184e-01	7.4184e-01
2.1341e+04	7.4097e-01	7.4184e-01	7.4184e-01
2.1427e+04	7.4255e-01	7.4502e-01	7.4502e-01
2.1514e+04	7.4412e-01	7.4502e-01	7.4502e-01
2.1600e+04	7.4568e-01	7.4817e-01	7.4817e-01
2.1686e+04	7.4724e-01	7.4974e-01	7.4974e-01
2.1773e+04	7.4879e-01	7.4974e-01	7.4974e-01
2.1859e+04	7.5034e-01	7.5286e-01	7.5286e-01
2.1946e+04	7.5188e-01	7.5286e-01	7.5286e-01
2.2032e+04	7.5342e-01	7.5596e-01	7.5596e-01
2.2118e+04	7.5495e-01	7.5750e-01	7.5750e-01
2.2205e+04	7.5648e-01	7.5750e-01	7.5750e-01
2.2291e+04	7.5800e-01	7.6057e-01	7.6057e-01
2.2378e+04	7.5951e-01	7.6057e-01	7.6057e-01
2.2464e+04	7.6102e-01	7.6362e-01	7.6362e-01
2.2550e+04	7.6253e-01	7.6513e-01	7.6513e-01
2.2637e+04	7.6403e-01	7.6513e-01	7.6513e-01
2.2723e+04	7.6553e-01	7.6815e-01	7.6815e-01
2.2810e+04	7.6702e-01	7.6815e-01	7.6815e-01
2.2896e+04	7.6850e-01	7.7114e-01	7.7114e-01

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x	$A(x)$	P_{v1}	P_{v2}
2.2982e+04	7.6998e-01	7.7263e-01	7.7263e-01
2.3069e+04	7.7146e-01	7.7263e-01	7.7263e-01
2.3155e+04	7.7293e-01	7.7560e-01	7.7560e-01
2.3242e+04	7.7439e-01	7.7560e-01	7.7560e-01
2.3328e+04	7.7585e-01	7.7854e-01	7.7854e-01
2.3414e+04	7.7731e-01	7.8001e-01	7.8001e-01
2.3501e+04	7.7876e-01	7.8001e-01	7.8001e-01
2.3587e+04	7.8020e-01	7.8292e-01	7.8292e-01
2.3674e+04	7.8165e-01	7.8292e-01	7.8292e-01
2.3760e+04	7.8308e-01	7.8582e-01	7.8582e-01
2.3846e+04	7.8451e-01	7.8726e-01	7.8726e-01
2.3933e+04	7.8594e-01	7.8726e-01	7.8726e-01
2.4019e+04	7.8736e-01	7.9013e-01	7.9013e-01
2.4106e+04	7.8878e-01	7.9013e-01	7.9013e-01
2.4192e+04	7.9020e-01	7.9298e-01	7.9298e-01
2.4278e+04	7.9160e-01	7.9439e-01	7.9439e-01
2.4365e+04	7.9301e-01	7.9439e-01	7.9439e-01
2.4451e+04	7.9441e-01	7.9722e-01	7.9722e-01
2.4538e+04	7.9580e-01	7.9722e-01	7.9722e-01
2.4624e+04	7.9720e-01	8.0002e-01	8.0002e-01
2.4710e+04	7.9858e-01	8.0141e-01	8.0141e-01
2.4797e+04	7.9997e-01	8.0141e-01	8.0141e-01
2.4883e+04	8.0134e-01	8.0419e-01	8.0419e-01
2.4970e+04	8.0272e-01	8.0419e-01	8.0419e-01
2.5056e+04	8.0409e-01	8.0695e-01	8.0695e-01
2.5142e+04	8.0545e-01	8.0832e-01	8.0832e-01
2.5229e+04	8.0681e-01	8.0832e-01	8.0832e-01
2.5315e+04	8.0817e-01	8.1106e-01	8.1106e-01
2.5402e+04	8.0952e-01	8.1106e-01	8.1106e-01
2.5488e+04	8.1087e-01	8.1378e-01	8.1378e-01
2.5574e+04	8.1222e-01	8.1513e-01	8.1513e-01
2.5661e+04	8.1356e-01	8.1513e-01	8.1513e-01
2.5747e+04	8.1489e-01	8.1782e-01	8.1782e-01
2.5834e+04	8.1622e-01	8.1782e-01	8.1782e-01
2.5920e+04	8.1755e-01	8.2050e-01	8.2050e-01
2.6006e+04	8.1888e-01	8.2183e-01	8.2183e-01
2.6093e+04	8.2020e-01	8.2183e-01	8.2183e-01
2.6179e+04	8.2151e-01	8.2448e-01	8.2448e-01
2.6266e+04	8.2283e-01	8.2448e-01	8.2448e-01
2.6352e+04	8.2413e-01	8.2712e-01	8.2712e-01

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x	$A(x)$	P_{v1}	P_{v2}
2.6438e+04	8.2544e-01	8.2843e-01	8.2843e-01
2.6525e+04	8.2674e-01	8.2843e-01	8.2843e-01
2.6611e+04	8.2804e-01	8.3104e-01	8.3104e-01
2.6698e+04	8.2933e-01	8.3104e-01	8.3104e-01
2.6784e+04	8.3064e-01	8.3364e-01	8.3364e-01
2.6870e+04	8.3193e-01	8.3493e-01	8.3493e-01
2.6957e+04	8.3321e-01	8.3493e-01	8.3493e-01
2.7043e+04	8.3449e-01	8.3750e-01	8.3750e-01
2.7130e+04	8.3576e-01	8.3750e-01	8.3750e-01
2.7216e+04	8.3703e-01	8.4006e-01	8.4006e-01
2.7302e+04	8.3830e-01	8.4134e-01	8.4134e-01
2.7389e+04	8.3956e-01	8.4134e-01	8.4134e-01
2.7475e+04	8.4082e-01	8.4388e-01	8.4388e-01
2.7562e+04	8.4208e-01	8.4388e-01	8.4388e-01
2.7648e+04	8.4333e-01	8.4640e-01	8.4640e-01
2.7734e+04	8.4458e-01	8.4765e-01	8.4765e-01
2.7821e+04	8.4583e-01	8.4765e-01	8.4765e-01
2.7907e+04	8.4707e-01	8.5015e-01	8.5015e-01
2.7994e+04	8.4831e-01	8.5015e-01	8.5015e-01
2.8080e+04	8.4954e-01	8.5015e-01	8.5015e-01
2.8166e+04	8.5077e-01	8.5388e-01	8.5388e-01
2.8253e+04	8.5200e-01	8.5388e-01	8.5388e-01
2.8339e+04	8.5323e-01	8.5635e-01	8.5635e-01
2.8426e+04	8.5445e-01	8.5635e-01	8.5635e-01
2.8512e+04	8.5567e-01	8.5635e-01	8.5635e-01
2.8598e+04	8.5688e-01	8.6002e-01	8.6002e-01
2.8685e+04	8.5809e-01	8.6002e-01	8.6002e-01
2.8771e+04	8.5930e-01	8.6245e-01	8.6245e-01
2.8858e+04	8.6050e-01	8.6245e-01	8.6245e-01
2.8944e+04	8.6171e-01	8.6245e-01	8.6245e-01
2.9030e+04	8.6290e-01	8.6607e-01	8.6607e-01
2.9117e+04	8.6410e-01	8.6607e-01	8.6607e-01
2.9203e+04	8.6529e-01	8.6847e-01	8.6847e-01
2.9290e+04	8.6648e-01	8.6847e-01	8.6847e-01
2.9376e+04	8.6766e-01	8.6847e-01	8.6847e-01
2.9462e+04	8.6885e-01	8.7204e-01	8.7204e-01
2.9549e+04	8.7002e-01	8.7204e-01	8.7204e-01
2.9635e+04	8.7120e-01	8.7441e-01	8.7441e-01
2.9722e+04	8.7237e-01	8.7441e-01	8.7441e-01
2.9808e+04	8.7354e-01	8.7441e-01	8.7441e-01

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x	$A(x)$	P_{v1}	P_{v2}
2.9894e+04	8.7471e-01	8.7794e-01	8.7794e-01
2.9981e+04	8.7587e-01	8.7794e-01	8.7794e-01
3.0067e+04	8.7703e-01	8.8027e-01	8.8027e-01
3.0154e+04	8.7819e-01	8.8027e-01	8.8027e-01
3.0240e+04	8.7934e-01	8.8027e-01	8.8027e-01
3.0326e+04	8.8049e-01	8.8375e-01	8.8375e-01
3.0413e+04	8.8164e-01	8.8375e-01	8.8375e-01
3.0499e+04	8.8279e-01	8.8605e-01	8.8605e-01
3.0586e+04	8.8393e-01	8.8605e-01	8.8605e-01
3.0672e+04	8.8507e-01	8.8605e-01	8.8605e-01
3.0758e+04	8.8620e-01	8.8949e-01	8.8949e-01
3.0845e+04	8.8734e-01	8.8949e-01	8.8949e-01
3.0931e+04	8.8847e-01	8.9176e-01	8.9176e-01
3.1018e+04	8.8959e-01	8.9176e-01	8.9176e-01
3.1104e+04	8.9072e-01	8.9176e-01	8.9176e-01
3.1190e+04	8.9184e-01	8.9515e-01	8.9515e-01
3.1277e+04	8.9296e-01	8.9515e-01	8.9515e-01
3.1363e+04	8.9407e-01	8.9740e-01	8.9740e-01
3.1450e+04	8.9519e-01	8.9740e-01	8.9740e-01
3.1536e+04	8.9630e-01	8.9740e-01	8.9740e-01
3.1622e+04	8.9741e-01	9.0074e-01	9.0074e-01
3.1709e+04	8.9851e-01	9.0074e-01	9.0074e-01
3.1795e+04	8.9961e-01	9.0296e-01	9.0296e-01
3.1882e+04	9.0071e-01	9.0296e-01	9.0296e-01
3.1968e+04	9.0181e-01	9.0296e-01	9.0296e-01
3.2054e+04	9.0290e-01	9.0627e-01	9.0627e-01
3.2141e+04	9.0399e-01	9.0627e-01	9.0627e-01
3.2227e+04	9.0508e-01	9.0846e-01	9.0846e-01
3.2314e+04	9.0617e-01	9.0846e-01	9.0846e-01
3.2400e+04	9.0725e-01	9.0846e-01	9.0846e-01
3.2486e+04	9.0833e-01	9.1172e-01	9.1172e-01
3.2573e+04	9.0941e-01	9.1172e-01	9.1172e-01
3.2659e+04	9.1048e-01	9.1388e-01	9.1388e-01
3.2746e+04	9.1155e-01	9.1388e-01	9.1388e-01
3.2832e+04	9.1262e-01	9.1603e-01	9.1603e-01
3.2918e+04	9.1369e-01	9.1711e-01	9.1711e-01
3.3005e+04	9.1475e-01	9.1818e-01	9.1818e-01
3.3091e+04	9.1582e-01	9.1818e-01	9.1818e-01
3.3178e+04	9.1688e-01	9.1818e-01	9.1818e-01
3.3264e+04	9.1793e-01	9.2137e-01	9.2137e-01

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x	$A(x)$	P_{v1}	P_{v2}
3.3350e+04	9.1899e-01	9.2243e-01	9.2243e-01
3.3437e+04	9.2004e-01	9.2348e-01	9.2348e-01
3.3523e+04	9.2109e-01	9.2348e-01	9.2348e-01
3.3610e+04	9.2213e-01	9.2348e-01	9.2348e-01
3.3696e+04	9.2318e-01	9.2664e-01	9.2664e-01
3.3782e+04	9.2422e-01	9.2768e-01	9.2768e-01
3.3869e+04	9.2526e-01	9.2873e-01	9.2873e-01
3.3955e+04	9.2630e-01	9.2873e-01	9.2873e-01
3.4042e+04	9.2733e-01	9.2873e-01	9.2873e-01
3.4128e+04	9.2836e-01	9.3184e-01	9.3184e-01
3.4214e+04	9.2939e-01	9.3288e-01	9.3288e-01
3.4301e+04	9.3042e-01	9.3391e-01	9.3391e-01
3.4387e+04	9.3144e-01	9.3391e-01	9.3391e-01
3.4474e+04	9.3247e-01	9.3391e-01	9.3391e-01
3.4560e+04	9.3349e-01	9.3699e-01	9.3699e-01
3.4646e+04	9.3450e-01	9.3801e-01	9.3801e-01
3.4733e+04	9.3552e-01	9.3903e-01	9.3903e-01
3.4819e+04	9.3653e-01	9.3903e-01	9.3903e-01
3.4906e+04	9.3754e-01	9.3903e-01	9.3903e-01
3.4992e+04	9.3855e-01	9.4208e-01	9.4208e-01
3.5078e+04	9.3956e-01	9.4309e-01	9.4309e-01
3.5165e+04	9.4056e-01	9.4410e-01	9.4410e-01
3.5251e+04	9.4156e-01	9.4410e-01	9.4410e-01
3.5338e+04	9.4256e-01	9.4410e-01	9.4410e-01
3.5424e+04	9.4356e-01	9.4711e-01	9.4711e-01
3.5510e+04	9.4455e-01	9.4810e-01	9.4810e-01
3.5597e+04	9.4554e-01	9.4910e-01	9.4910e-01
3.5683e+04	9.4653e-01	9.4910e-01	9.4910e-01
3.5770e+04	9.4752e-01	9.4910e-01	9.4910e-01
3.5856e+04	9.4851e-01	9.5208e-01	9.5208e-01
3.5942e+04	9.4949e-01	9.5306e-01	9.5306e-01
3.6029e+04	9.5047e-01	9.5405e-01	9.5405e-01
3.6115e+04	9.5145e-01	9.5405e-01	9.5405e-01
3.6202e+04	9.5243e-01	9.5405e-01	9.5405e-01
3.6288e+04	9.5340e-01	9.5699e-01	9.5699e-01
3.6374e+04	9.5438e-01	9.5797e-01	9.5797e-01
3.6461e+04	9.5535e-01	9.5894e-01	9.5894e-01
3.6547e+04	9.5632e-01	9.5894e-01	9.5894e-01
3.6634e+04	9.5728e-01	9.5894e-01	9.5894e-01
3.6720e+04	9.5825e-01	9.6185e-01	9.6185e-01

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x	$A(x)$	P_{v1}	P_{v2}
3.6806e+04	9.5921e-01	9.6282e-01	9.6282e-01
3.6893e+04	9.6017e-01	9.6378e-01	9.6378e-01
3.6979e+04	9.6113e-01	9.6378e-01	9.6378e-01
3.7066e+04	9.6209e-01	9.6378e-01	9.6378e-01
3.7152e+04	9.6304e-01	9.6666e-01	9.6666e-01
3.7238e+04	9.6400e-01	9.6762e-01	9.6762e-01
3.7325e+04	9.6495e-01	9.6857e-01	9.6857e-01
3.7411e+04	9.6589e-01	9.6857e-01	9.6857e-01
3.7498e+04	9.6684e-01	9.6857e-01	9.6857e-01
3.7584e+04	9.6778e-01	9.7142e-01	9.7142e-01
3.7670e+04	9.6873e-01	9.7236e-01	9.7236e-01
3.7757e+04	9.6967e-01	9.7331e-01	9.7331e-01
3.7843e+04	9.7061e-01	9.7331e-01	9.7331e-01
3.7930e+04	9.7154e-01	9.7331e-01	9.7331e-01
3.8016e+04	9.7248e-01	9.7612e-01	9.7612e-01
3.8102e+04	9.7341e-01	9.7706e-01	9.7706e-01
3.8189e+04	9.7434e-01	9.7799e-01	9.7799e-01
3.8275e+04	9.7527e-01	9.7799e-01	9.7799e-01
3.8362e+04	9.7619e-01	9.7799e-01	9.7799e-01
3.8448e+04	9.7712e-01	9.8078e-01	9.8078e-01
3.8534e+04	9.7804e-01	9.8170e-01	9.8170e-01
3.8621e+04	9.7896e-01	9.8263e-01	9.8263e-01
3.8707e+04	9.7988e-01	9.8263e-01	9.8263e-01
3.8794e+04	9.8080e-01	9.8263e-01	9.8263e-01
3.8880e+04	9.8171e-01	9.8538e-01	9.8538e-01
3.8966e+04	9.8263e-01	9.8630e-01	9.8630e-01
3.9053e+04	9.8354e-01	9.8721e-01	9.8721e-01
3.9139e+04	9.8445e-01	9.8721e-01	9.8721e-01
3.9226e+04	9.8535e-01	9.8721e-01	9.8721e-01
3.9312e+04	9.8626e-01	9.8994e-01	9.8994e-01
3.9398e+04	9.8716e-01	9.9085e-01	9.9085e-01
3.9485e+04	9.8806e-01	9.9175e-01	9.9175e-01
3.9571e+04	9.8896e-01	9.9175e-01	9.9175e-01
3.9658e+04	9.8986e-01	9.9175e-01	9.9175e-01
3.9744e+04	9.9076e-01	9.9445e-01	9.9445e-01
3.9830e+04	9.9165e-01	9.9535e-01	9.9535e-01
3.9917e+04	9.9255e-01	9.9624e-01	9.9624e-01
4.0003e+04	9.9344e-01	9.9624e-01	9.9624e-01
4.0090e+04	9.9433e-01	9.9624e-01	9.9624e-01
4.0176e+04	9.9521e-01	9.9892e-01	9.9892e-01

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x	$A(x)$	P_{v1}	P_{v2}
4.0262e+04	9.9610e-01	9.9981e-01	9.9981e-01
4.0349e+04	9.9698e-01	1.0007e+00	1.0007e+00
4.0435e+04	9.9787e-01	1.0007e+00	1.0007e+00
4.0522e+04	9.9875e-01	1.0007e+00	1.0007e+00
4.0608e+04	9.9963e-01	1.0033e+00	1.0033e+00
4.0694e+04	1.0005e+00	1.0042e+00	1.0042e+00
4.0781e+04	1.0014e+00	1.0051e+00	1.0051e+00
4.0867e+04	1.0023e+00	1.0051e+00	1.0051e+00
4.0954e+04	1.0031e+00	1.0051e+00	1.0051e+00
4.1040e+04	1.0040e+00	1.0077e+00	1.0077e+00
4.1126e+04	1.0049e+00	1.0086e+00	1.0086e+00
4.1213e+04	1.0057e+00	1.0095e+00	1.0095e+00
4.1299e+04	1.0066e+00	1.0095e+00	1.0095e+00
4.1386e+04	1.0075e+00	1.0095e+00	1.0095e+00
4.1472e+04	1.0083e+00	1.0120e+00	1.0120e+00
4.1558e+04	1.0092e+00	1.0129e+00	1.0129e+00
4.1645e+04	1.0100e+00	1.0138e+00	1.0138e+00
4.1731e+04	1.0109e+00	1.0138e+00	1.0138e+00
4.1818e+04	1.0117e+00	1.0138e+00	1.0138e+00
4.1904e+04	1.0126e+00	1.0163e+00	1.0163e+00
4.1990e+04	1.0135e+00	1.0172e+00	1.0172e+00
4.2077e+04	1.0143e+00	1.0180e+00	1.0180e+00
4.2163e+04	1.0152e+00	1.0180e+00	1.0180e+00
4.2250e+04	1.0160e+00	1.0180e+00	1.0180e+00
4.2336e+04	1.0168e+00	1.0206e+00	1.0206e+00
4.2422e+04	1.0177e+00	1.0214e+00	1.0214e+00
4.2509e+04	1.0185e+00	1.0223e+00	1.0223e+00
4.2595e+04	1.0194e+00	1.0223e+00	1.0223e+00
4.2682e+04	1.0202e+00	1.0223e+00	1.0223e+00
4.2768e+04	1.0210e+00	1.0248e+00	1.0248e+00
4.2854e+04	1.0219e+00	1.0256e+00	1.0256e+00
4.2941e+04	1.0227e+00	1.0265e+00	1.0265e+00
4.3027e+04	1.0235e+00	1.0265e+00	1.0265e+00
4.3114e+04	1.0244e+00	1.0265e+00	1.0265e+00
4.3200e+04	1.0252e+00	1.0290e+00	1.0290e+00
4.3286e+04	1.0260e+00	1.0298e+00	1.0298e+00
4.3373e+04	1.0269e+00	1.0306e+00	1.0306e+00
4.3459e+04	1.0277e+00	1.0306e+00	1.0306e+00
4.3546e+04	1.0285e+00	1.0306e+00	1.0306e+00
4.3632e+04	1.0293e+00	1.0331e+00	1.0331e+00

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x	$A(x)$	P_{v1}	P_{v2}
4.3718e+04	1.0302e+00	1.0339e+00	1.0339e+00
4.3805e+04	1.0310e+00	1.0347e+00	1.0347e+00
4.3891e+04	1.0318e+00	1.0347e+00	1.0347e+00
4.3978e+04	1.0326e+00	1.0347e+00	1.0347e+00
4.4064e+04	1.0334e+00	1.0372e+00	1.0372e+00
4.4150e+04	1.0341e+00	1.0380e+00	1.0380e+00
4.4237e+04	1.0349e+00	1.0388e+00	1.0388e+00
4.4323e+04	1.0357e+00	1.0388e+00	1.0388e+00
4.4410e+04	1.0365e+00	1.0388e+00	1.0388e+00
4.4496e+04	1.0373e+00	1.0412e+00	1.0412e+00
4.4582e+04	1.0381e+00	1.0420e+00	1.0420e+00
4.4669e+04	1.0389e+00	1.0428e+00	1.0428e+00
4.4755e+04	1.0397e+00	1.0428e+00	1.0428e+00
4.4842e+04	1.0405e+00	1.0428e+00	1.0428e+00
4.4928e+04	1.0413e+00	1.0452e+00	1.0452e+00
4.5014e+04	1.0421e+00	1.0460e+00	1.0460e+00
4.5101e+04	1.0429e+00	1.0468e+00	1.0468e+00
4.5187e+04	1.0437e+00	1.0468e+00	1.0468e+00
4.5274e+04	1.0445e+00	1.0468e+00	1.0468e+00
4.5360e+04	1.0453e+00	1.0492e+00	1.0492e+00
4.5446e+04	1.0461e+00	1.0500e+00	1.0500e+00
4.5533e+04	1.0469e+00	1.0508e+00	1.0508e+00
4.5619e+04	1.0476e+00	1.0508e+00	1.0508e+00
4.5706e+04	1.0484e+00	1.0508e+00	1.0508e+00
4.5792e+04	1.0492e+00	1.0532e+00	1.0532e+00
4.5878e+04	1.0500e+00	1.0540e+00	1.0540e+00
4.5965e+04	1.0508e+00	1.0547e+00	1.0547e+00
4.6051e+04	1.0516e+00	1.0547e+00	1.0547e+00
4.6138e+04	1.0523e+00	1.0547e+00	1.0547e+00
4.6224e+04	1.0531e+00	1.0571e+00	1.0571e+00
4.6310e+04	1.0539e+00	1.0579e+00	1.0579e+00
4.6397e+04	1.0547e+00	1.0586e+00	1.0586e+00
4.6483e+04	1.0554e+00	1.0586e+00	1.0586e+00
4.6570e+04	1.0562e+00	1.0586e+00	1.0586e+00
4.6656e+04	1.0570e+00	1.0610e+00	1.0610e+00
4.6742e+04	1.0577e+00	1.0617e+00	1.0617e+00
4.6829e+04	1.0585e+00	1.0625e+00	1.0625e+00
4.6915e+04	1.0593e+00	1.0625e+00	1.0625e+00
4.7002e+04	1.0600e+00	1.0625e+00	1.0625e+00
4.7088e+04	1.0608e+00	1.0648e+00	1.0648e+00

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x	$A(x)$	P_{v1}	P_{v2}
4.7174e+04	1.0616e+00	1.0656e+00	1.0656e+00
4.7261e+04	1.0623e+00	1.0663e+00	1.0663e+00
4.7347e+04	1.0631e+00	1.0663e+00	1.0663e+00
4.7434e+04	1.0638e+00	1.0663e+00	1.0663e+00
4.7520e+04	1.0646e+00	1.0686e+00	1.0686e+00
4.7606e+04	1.0653e+00	1.0694e+00	1.0694e+00
4.7693e+04	1.0661e+00	1.0701e+00	1.0701e+00
4.7779e+04	1.0668e+00	1.0701e+00	1.0701e+00
4.7866e+04	1.0676e+00	1.0701e+00	1.0701e+00
4.7952e+04	1.0683e+00	1.0724e+00	1.0724e+00
4.8038e+04	1.0691e+00	1.0731e+00	1.0731e+00
4.8125e+04	1.0698e+00	1.0739e+00	1.0739e+00
4.8211e+04	1.0706e+00	1.0739e+00	1.0739e+00
4.8298e+04	1.0713e+00	1.0739e+00	1.0739e+00
4.8384e+04	1.0721e+00	1.0761e+00	1.0761e+00
4.8470e+04	1.0728e+00	1.0769e+00	1.0769e+00
4.8557e+04	1.0736e+00	1.0776e+00	1.0776e+00
4.8643e+04	1.0743e+00	1.0776e+00	1.0776e+00
4.8730e+04	1.0750e+00	1.0776e+00	1.0776e+00
4.8816e+04	1.0758e+00	1.0798e+00	1.0798e+00
4.8902e+04	1.0765e+00	1.0806e+00	1.0806e+00
4.8989e+04	1.0772e+00	1.0813e+00	1.0813e+00
4.9075e+04	1.0780e+00	1.0813e+00	1.0813e+00
4.9162e+04	1.0787e+00	1.0813e+00	1.0813e+00
4.9248e+04	1.0794e+00	1.0835e+00	1.0835e+00
4.9334e+04	1.0802e+00	1.0842e+00	1.0842e+00
4.9421e+04	1.0809e+00	1.0850e+00	1.0850e+00
4.9507e+04	1.0816e+00	1.0850e+00	1.0850e+00
4.9594e+04	1.0823e+00	1.0850e+00	1.0850e+00
4.9680e+04	1.0831e+00	1.0871e+00	1.0871e+00
4.9766e+04	1.0838e+00	1.0879e+00	1.0879e+00
4.9853e+04	1.0845e+00	1.0886e+00	1.0886e+00
4.9939e+04	1.0852e+00	1.0886e+00	1.0886e+00
5.0026e+04	1.0860e+00	1.0886e+00	1.0886e+00
5.0112e+04	1.0867e+00	1.0908e+00	1.0908e+00
5.0198e+04	1.0874e+00	1.0915e+00	1.0915e+00
5.0285e+04	1.0881e+00	1.0922e+00	1.0922e+00
5.0371e+04	1.0888e+00	1.0922e+00	1.0922e+00
5.0458e+04	1.0895e+00	1.0922e+00	1.0922e+00
5.0544e+04	1.0903e+00	1.0943e+00	1.0943e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.0630e+04	1.0910e+00	1.0951e+00	1.0951e+00
5.0717e+04	1.0917e+00	1.0958e+00	1.0958e+00
5.0803e+04	1.0924e+00	1.0958e+00	1.0958e+00
5.0890e+04	1.0931e+00	1.0958e+00	1.0958e+00
5.0976e+04	1.0938e+00	1.0979e+00	1.0979e+00
5.1062e+04	1.0945e+00	1.0986e+00	1.0986e+00
5.1149e+04	1.0952e+00	1.0993e+00	1.0993e+00
5.1235e+04	1.0959e+00	1.0993e+00	1.0993e+00
5.1322e+04	1.0966e+00	1.0993e+00	1.0993e+00
5.1408e+04	1.0973e+00	1.1014e+00	1.1014e+00
5.1494e+04	1.0980e+00	1.1021e+00	1.1021e+00
5.1581e+04	1.0987e+00	1.1028e+00	1.1028e+00
5.1667e+04	1.0994e+00	1.1028e+00	1.1028e+00
5.1754e+04	1.1001e+00	1.1028e+00	1.1028e+00
5.1840e+04	1.1008e+00	1.1049e+00	1.1049e+00
5.1926e+04	1.1015e+00	1.1056e+00	1.1056e+00
5.2013e+04	1.1022e+00	1.1063e+00	1.1063e+00
5.2099e+04	1.1029e+00	1.1063e+00	1.1063e+00
5.2186e+04	1.1036e+00	1.1063e+00	1.1063e+00
5.2272e+04	1.1043e+00	1.1084e+00	1.1084e+00
5.2358e+04	1.1050e+00	1.1091e+00	1.1091e+00
5.2445e+04	1.1057e+00	1.1098e+00	1.1098e+00
5.2531e+04	1.1063e+00	1.1098e+00	1.1098e+00
5.2618e+04	1.1070e+00	1.1098e+00	1.1098e+00
5.2704e+04	1.1077e+00	1.1119e+00	1.1119e+00
5.2790e+04	1.1084e+00	1.1125e+00	1.1125e+00
5.2877e+04	1.1091e+00	1.1132e+00	1.1132e+00
5.2963e+04	1.1098e+00	1.1132e+00	1.1132e+00
5.3050e+04	1.1104e+00	1.1132e+00	1.1132e+00
5.3136e+04	1.1111e+00	1.1153e+00	1.1153e+00
5.3222e+04	1.1118e+00	1.1160e+00	1.1160e+00
5.3309e+04	1.1125e+00	1.1166e+00	1.1166e+00
5.3395e+04	1.1132e+00	1.1166e+00	1.1166e+00
5.3482e+04	1.1138e+00	1.1166e+00	1.1166e+00
5.3568e+04	1.1145e+00	1.1187e+00	1.1187e+00
5.3654e+04	1.1152e+00	1.1193e+00	1.1193e+00
5.3741e+04	1.1158e+00	1.1200e+00	1.1200e+00
5.3827e+04	1.1165e+00	1.1200e+00	1.1200e+00
5.3914e+04	1.1172e+00	1.1200e+00	1.1200e+00
5.4000e+04	1.1179e+00	1.1220e+00	1.1220e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.4086e+04	1.1185e+00	1.1227e+00	1.1227e+00
5.4173e+04	1.1192e+00	1.1234e+00	1.1234e+00
5.4259e+04	1.1199e+00	1.1234e+00	1.1234e+00
5.4346e+04	1.1205e+00	1.1234e+00	1.1234e+00
5.4432e+04	1.1212e+00	1.1254e+00	1.1254e+00
5.4518e+04	1.1219e+00	1.1260e+00	1.1260e+00
5.4605e+04	1.1225e+00	1.1267e+00	1.1267e+00
5.4691e+04	1.1232e+00	1.1267e+00	1.1267e+00
5.4778e+04	1.1238e+00	1.1267e+00	1.1267e+00
5.4864e+04	1.1245e+00	1.1287e+00	1.1287e+00
5.4950e+04	1.1252e+00	1.1294e+00	1.1294e+00
5.5037e+04	1.1258e+00	1.1300e+00	1.1300e+00
5.5123e+04	1.1265e+00	1.1300e+00	1.1300e+00
5.5210e+04	1.1271e+00	1.1300e+00	1.1300e+00
5.5296e+04	1.1278e+00	1.1320e+00	1.1320e+00
5.5382e+04	1.1284e+00	1.1326e+00	1.1326e+00
5.5469e+04	1.1291e+00	1.1333e+00	1.1333e+00
5.5555e+04	1.1297e+00	1.1333e+00	1.1333e+00
5.5642e+04	1.1304e+00	1.1333e+00	1.1333e+00
5.5728e+04	1.1310e+00	1.1333e+00	1.1333e+00
5.5814e+04	1.1317e+00	1.1359e+00	1.1359e+00
5.5901e+04	1.1323e+00	1.1365e+00	1.1365e+00
5.5987e+04	1.1330e+00	1.1365e+00	1.1365e+00
5.6074e+04	1.1336e+00	1.1365e+00	1.1365e+00
5.6160e+04	1.1315e+00	1.1365e+00	1.1365e+00
5.6246e+04	1.1321e+00	1.1391e+00	1.1391e+00
5.6333e+04	1.1356e+00	1.1398e+00	1.1398e+00
5.6419e+04	1.1362e+00	1.1398e+00	1.1398e+00
5.6506e+04	1.1368e+00	1.1398e+00	1.1398e+00
5.6592e+04	1.1375e+00	1.1398e+00	1.1398e+00
5.6678e+04	1.1381e+00	1.1423e+00	1.1423e+00
5.6765e+04	1.1388e+00	1.1430e+00	1.1430e+00
5.6851e+04	1.1394e+00	1.1430e+00	1.1430e+00
5.6938e+04	1.1400e+00	1.1430e+00	1.1430e+00
5.7024e+04	1.1407e+00	1.1430e+00	1.1430e+00
5.7110e+04	1.1413e+00	1.1455e+00	1.1455e+00
5.7197e+04	1.1419e+00	1.1462e+00	1.1462e+00
5.7283e+04	1.1426e+00	1.1462e+00	1.1462e+00
5.7370e+04	1.1432e+00	1.1462e+00	1.1462e+00
5.7456e+04	1.1438e+00	1.1462e+00	1.1462e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.7542e+04	1.1445e+00	1.1487e+00	1.1487e+00
5.7629e+04	1.1451e+00	1.1493e+00	1.1493e+00
5.7715e+04	1.1457e+00	1.1493e+00	1.1493e+00
5.7802e+04	1.1463e+00	1.1493e+00	1.1493e+00
5.7888e+04	1.1470e+00	1.1493e+00	1.1493e+00
5.7974e+04	1.1476e+00	1.1518e+00	1.1518e+00
5.8061e+04	1.1482e+00	1.1525e+00	1.1525e+00
5.8147e+04	1.1488e+00	1.1525e+00	1.1525e+00
5.8234e+04	1.1495e+00	1.1525e+00	1.1525e+00
5.8320e+04	1.1501e+00	1.1525e+00	1.1525e+00
5.8406e+04	1.1507e+00	1.1550e+00	1.1550e+00
5.8493e+04	1.1513e+00	1.1556e+00	1.1556e+00
5.8579e+04	1.1519e+00	1.1556e+00	1.1556e+00
5.8666e+04	1.1526e+00	1.1556e+00	1.1556e+00
5.8752e+04	1.1532e+00	1.1556e+00	1.1556e+00
5.8838e+04	1.1538e+00	1.1581e+00	1.1581e+00
5.8925e+04	1.1544e+00	1.1587e+00	1.1587e+00
5.9011e+04	1.1550e+00	1.1587e+00	1.1587e+00
5.9098e+04	1.1556e+00	1.1587e+00	1.1587e+00
5.9184e+04	1.1563e+00	1.1587e+00	1.1587e+00
5.9270e+04	1.1569e+00	1.1611e+00	1.1611e+00
5.9357e+04	1.1575e+00	1.1618e+00	1.1618e+00
5.9443e+04	1.1581e+00	1.1618e+00	1.1618e+00
5.9530e+04	1.1587e+00	1.1618e+00	1.1618e+00
5.9616e+04	1.1593e+00	1.1618e+00	1.1618e+00
5.9702e+04	1.1599e+00	1.1642e+00	1.1642e+00
5.9789e+04	1.1605e+00	1.1648e+00	1.1648e+00
5.9875e+04	1.1611e+00	1.1648e+00	1.1648e+00
5.9962e+04	1.1617e+00	1.1648e+00	1.1648e+00
6.0048e+04	1.1623e+00	1.1648e+00	1.1648e+00
6.0134e+04	1.1629e+00	1.1672e+00	1.1672e+00
6.0221e+04	1.1636e+00	1.1678e+00	1.1678e+00
6.0307e+04	1.1642e+00	1.1678e+00	1.1678e+00
6.0394e+04	1.1648e+00	1.1678e+00	1.1678e+00
6.0480e+04	1.1654e+00	1.1678e+00	1.1678e+00
6.0566e+04	1.1660e+00	1.1702e+00	1.1702e+00
6.0653e+04	1.1666e+00	1.1708e+00	1.1708e+00
6.0739e+04	1.1672e+00	1.1708e+00	1.1708e+00
6.0826e+04	1.1678e+00	1.1708e+00	1.1708e+00
6.0912e+04	1.1683e+00	1.1708e+00	1.1708e+00

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x	$A(x)$	P_{v1}	P_{v2}
6.0998e+04	1.1689e+00	1.1732e+00	1.1732e+00
6.1085e+04	1.1695e+00	1.1738e+00	1.1738e+00
6.1171e+04	1.1701e+00	1.1738e+00	1.1738e+00
6.1258e+04	1.1707e+00	1.1738e+00	1.1738e+00
6.1344e+04	1.1713e+00	1.1738e+00	1.1738e+00
6.1430e+04	1.1719e+00	1.1762e+00	1.1762e+00
6.1517e+04	1.1725e+00	1.1768e+00	1.1768e+00
6.1603e+04	1.1731e+00	1.1768e+00	1.1768e+00
6.1690e+04	1.1737e+00	1.1768e+00	1.1768e+00
6.1776e+04	1.1743e+00	1.1768e+00	1.1768e+00
6.1862e+04	1.1749e+00	1.1792e+00	1.1792e+00
6.1949e+04	1.1754e+00	1.1797e+00	1.1797e+00
6.2035e+04	1.1760e+00	1.1797e+00	1.1797e+00
6.2122e+04	1.1766e+00	1.1797e+00	1.1797e+00
6.2208e+04	1.1772e+00	1.1797e+00	1.1797e+00
6.2294e+04	1.1778e+00	1.1821e+00	1.1821e+00
6.2381e+04	1.1784e+00	1.1827e+00	1.1827e+00
6.2467e+04	1.1789e+00	1.1827e+00	1.1827e+00
6.2554e+04	1.1795e+00	1.1827e+00	1.1827e+00
6.2640e+04	1.1801e+00	1.1827e+00	1.1827e+00
6.2726e+04	1.1807e+00	1.1850e+00	1.1850e+00
6.2813e+04	1.1813e+00	1.1856e+00	1.1856e+00
6.2899e+04	1.1819e+00	1.1856e+00	1.1856e+00
6.2986e+04	1.1824e+00	1.1856e+00	1.1856e+00
6.3072e+04	1.1830e+00	1.1856e+00	1.1856e+00
6.3158e+04	1.1836e+00	1.1879e+00	1.1879e+00
6.3245e+04	1.1842e+00	1.1885e+00	1.1885e+00
6.3331e+04	1.1847e+00	1.1885e+00	1.1885e+00
6.3418e+04	1.1853e+00	1.1885e+00	1.1885e+00
6.3504e+04	1.1859e+00	1.1885e+00	1.1885e+00
6.3590e+04	1.1865e+00	1.1908e+00	1.1908e+00
6.3677e+04	1.1870e+00	1.1913e+00	1.1913e+00
6.3763e+04	1.1876e+00	1.1913e+00	1.1913e+00
6.3850e+04	1.1882e+00	1.1913e+00	1.1913e+00
6.3936e+04	1.1887e+00	1.1913e+00	1.1913e+00
6.4022e+04	1.1893e+00	1.1936e+00	1.1936e+00
6.4109e+04	1.1899e+00	1.1942e+00	1.1942e+00
6.4195e+04	1.1904e+00	1.1942e+00	1.1942e+00
6.4282e+04	1.1910e+00	1.1942e+00	1.1942e+00
6.4368e+04	1.1916e+00	1.1942e+00	1.1942e+00

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x	$A(x)$	P_{v1}	P_{v2}
6.4454e+04	1.1921e+00	1.1965e+00	1.1965e+00
6.4541e+04	1.1927e+00	1.1970e+00	1.1970e+00
6.4627e+04	1.1933e+00	1.1970e+00	1.1970e+00
6.4714e+04	1.1938e+00	1.1970e+00	1.1970e+00
6.4800e+04	1.1944e+00	1.1970e+00	1.1970e+00
6.4886e+04	1.1949e+00	1.1993e+00	1.1993e+00
6.4973e+04	1.1955e+00	1.1998e+00	1.1998e+00
6.5059e+04	1.1961e+00	1.1998e+00	1.1998e+00
6.5146e+04	1.1966e+00	1.1998e+00	1.1998e+00
6.5232e+04	1.1972e+00	1.1998e+00	1.1998e+00
6.5318e+04	1.1977e+00	1.2021e+00	1.2021e+00
6.5405e+04	1.1983e+00	1.2026e+00	1.2026e+00
6.5491e+04	1.1989e+00	1.2026e+00	1.2026e+00
6.5578e+04	1.1994e+00	1.2037e+00	1.2037e+00
6.5664e+04	1.2000e+00	1.2043e+00	1.2043e+00
6.5750e+04	1.2005e+00	1.2043e+00	1.2043e+00
6.5837e+04	1.2011e+00	1.2054e+00	1.2054e+00
6.5923e+04	1.2016e+00	1.2060e+00	1.2060e+00
6.6010e+04	1.2022e+00	1.2065e+00	1.2065e+00
6.6096e+04	1.2027e+00	1.2071e+00	1.2071e+00
6.6182e+04	1.2033e+00	1.2071e+00	1.2071e+00
6.6269e+04	1.2038e+00	1.2082e+00	1.2082e+00
6.6355e+04	1.2044e+00	1.2082e+00	1.2082e+00
6.6442e+04	1.2049e+00	1.2093e+00	1.2093e+00
6.6528e+04	1.2055e+00	1.2098e+00	1.2098e+00
6.6614e+04	1.2060e+00	1.2098e+00	1.2098e+00
6.6701e+04	1.2066e+00	1.2109e+00	1.2109e+00
6.6787e+04	1.2071e+00	1.2109e+00	1.2109e+00
6.6874e+04	1.2077e+00	1.2120e+00	1.2120e+00
6.6960e+04	1.2082e+00	1.2125e+00	1.2125e+00
6.7046e+04	1.2088e+00	1.2125e+00	1.2125e+00
6.7133e+04	1.2093e+00	1.2136e+00	1.2136e+00
6.7219e+04	1.2098e+00	1.2136e+00	1.2136e+00
6.7306e+04	1.2104e+00	1.2147e+00	1.2147e+00
6.7392e+04	1.2109e+00	1.2153e+00	1.2153e+00
6.7478e+04	1.2115e+00	1.2153e+00	1.2153e+00
6.7565e+04	1.2120e+00	1.2163e+00	1.2163e+00
6.7651e+04	1.2126e+00	1.2163e+00	1.2163e+00
6.7738e+04	1.2131e+00	1.2174e+00	1.2174e+00
6.7824e+04	1.2136e+00	1.2180e+00	1.2180e+00

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x	$A(x)$	P_{v1}	P_{v2}
6.7910e+04	1.2142e+00	1.2180e+00	1.2180e+00
6.7997e+04	1.2147e+00	1.2190e+00	1.2190e+00
6.8083e+04	1.2152e+00	1.2190e+00	1.2190e+00
6.8170e+04	1.2158e+00	1.2201e+00	1.2201e+00
6.8256e+04	1.2163e+00	1.2206e+00	1.2206e+00
6.8342e+04	1.2168e+00	1.2206e+00	1.2206e+00
6.8429e+04	1.2174e+00	1.2217e+00	1.2217e+00
6.8515e+04	1.2179e+00	1.2217e+00	1.2217e+00
6.8602e+04	1.2184e+00	1.2228e+00	1.2228e+00
6.8688e+04	1.2190e+00	1.2233e+00	1.2233e+00
6.8774e+04	1.2195e+00	1.2233e+00	1.2233e+00
6.8861e+04	1.2200e+00	1.2244e+00	1.2244e+00
6.8947e+04	1.2206e+00	1.2244e+00	1.2244e+00
6.9034e+04	1.2211e+00	1.2254e+00	1.2254e+00
6.9120e+04	1.2216e+00	1.2259e+00	1.2259e+00
6.9206e+04	1.2221e+00	1.2259e+00	1.2259e+00
6.9293e+04	1.2227e+00	1.2270e+00	1.2270e+00
6.9379e+04	1.2232e+00	1.2270e+00	1.2270e+00
6.9466e+04	1.2237e+00	1.2281e+00	1.2281e+00
6.9552e+04	1.2243e+00	1.2286e+00	1.2286e+00
6.9638e+04	1.2248e+00	1.2286e+00	1.2286e+00
6.9725e+04	1.2253e+00	1.2296e+00	1.2296e+00
6.9811e+04	1.2258e+00	1.2296e+00	1.2296e+00
6.9898e+04	1.2263e+00	1.2307e+00	1.2307e+00
6.9984e+04	1.2269e+00	1.2312e+00	1.2312e+00
7.0070e+04	1.2274e+00	1.2312e+00	1.2312e+00
7.0157e+04	1.2279e+00	1.2322e+00	1.2322e+00
7.0243e+04	1.2284e+00	1.2322e+00	1.2322e+00
7.0330e+04	1.2290e+00	1.2333e+00	1.2333e+00
7.0416e+04	1.2295e+00	1.2338e+00	1.2338e+00
7.0502e+04	1.2300e+00	1.2338e+00	1.2338e+00
7.0589e+04	1.2305e+00	1.2348e+00	1.2348e+00
7.0675e+04	1.2310e+00	1.2348e+00	1.2348e+00
7.0762e+04	1.2315e+00	1.2359e+00	1.2359e+00
7.0848e+04	1.2321e+00	1.2364e+00	1.2364e+00
7.0934e+04	1.2326e+00	1.2364e+00	1.2364e+00
7.1021e+04	1.2331e+00	1.2374e+00	1.2374e+00
7.1107e+04	1.2336e+00	1.2374e+00	1.2374e+00
7.1194e+04	1.2341e+00	1.2384e+00	1.2384e+00
7.1280e+04	1.2346e+00	1.2389e+00	1.2389e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.1366e+04	1.2351e+00	1.2389e+00	1.2389e+00
7.1453e+04	1.2357e+00	1.2400e+00	1.2400e+00
7.1539e+04	1.2362e+00	1.2400e+00	1.2400e+00
7.1626e+04	1.2367e+00	1.2410e+00	1.2410e+00
7.1712e+04	1.2372e+00	1.2415e+00	1.2415e+00
7.1798e+04	1.2377e+00	1.2415e+00	1.2415e+00
7.1885e+04	1.2382e+00	1.2425e+00	1.2425e+00
7.1971e+04	1.2387e+00	1.2425e+00	1.2425e+00
7.2058e+04	1.2392e+00	1.2435e+00	1.2435e+00
7.2144e+04	1.2397e+00	1.2440e+00	1.2440e+00
7.2230e+04	1.2402e+00	1.2440e+00	1.2440e+00
7.2317e+04	1.2407e+00	1.2450e+00	1.2450e+00
7.2403e+04	1.2412e+00	1.2450e+00	1.2450e+00
7.2490e+04	1.2418e+00	1.2461e+00	1.2461e+00
7.2576e+04	1.2423e+00	1.2466e+00	1.2466e+00
7.2662e+04	1.2428e+00	1.2466e+00	1.2466e+00
7.2749e+04	1.2433e+00	1.2476e+00	1.2476e+00
7.2835e+04	1.2438e+00	1.2476e+00	1.2476e+00
7.2922e+04	1.2443e+00	1.2486e+00	1.2486e+00
7.3008e+04	1.2448e+00	1.2491e+00	1.2491e+00
7.3094e+04	1.2453e+00	1.2491e+00	1.2491e+00
7.3181e+04	1.2458e+00	1.2501e+00	1.2501e+00
7.3267e+04	1.2463e+00	1.2501e+00	1.2501e+00
7.3354e+04	1.2468e+00	1.2511e+00	1.2511e+00
7.3440e+04	1.2473e+00	1.2516e+00	1.2516e+00
7.3526e+04	1.2478e+00	1.2516e+00	1.2516e+00
7.3613e+04	1.2483e+00	1.2526e+00	1.2526e+00
7.3699e+04	1.2488e+00	1.2526e+00	1.2526e+00
7.3786e+04	1.2493e+00	1.2535e+00	1.2535e+00
7.3872e+04	1.2498e+00	1.2540e+00	1.2540e+00
7.3958e+04	1.2503e+00	1.2540e+00	1.2540e+00
7.4045e+04	1.2507e+00	1.2550e+00	1.2550e+00
7.4131e+04	1.2512e+00	1.2550e+00	1.2550e+00
7.4218e+04	1.2517e+00	1.2560e+00	1.2560e+00
7.4304e+04	1.2522e+00	1.2565e+00	1.2565e+00
7.4390e+04	1.2527e+00	1.2565e+00	1.2565e+00
7.4477e+04	1.2532e+00	1.2575e+00	1.2575e+00
7.4563e+04	1.2537e+00	1.2575e+00	1.2575e+00
7.4650e+04	1.2542e+00	1.2585e+00	1.2585e+00
7.4736e+04	1.2547e+00	1.2590e+00	1.2590e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.4822e+04	1.2552e+00	1.2590e+00	1.2590e+00
7.4909e+04	1.2557e+00	1.2599e+00	1.2599e+00
7.4995e+04	1.2562e+00	1.2599e+00	1.2599e+00
7.5082e+04	1.2566e+00	1.2609e+00	1.2609e+00
7.5168e+04	1.2571e+00	1.2614e+00	1.2614e+00
7.5254e+04	1.2576e+00	1.2614e+00	1.2614e+00
7.5341e+04	1.2581e+00	1.2624e+00	1.2624e+00
7.5427e+04	1.2586e+00	1.2624e+00	1.2624e+00
7.5514e+04	1.2591e+00	1.2633e+00	1.2633e+00
7.5600e+04	1.2596e+00	1.2638e+00	1.2638e+00
7.5686e+04	1.2600e+00	1.2638e+00	1.2638e+00
7.5773e+04	1.2605e+00	1.2648e+00	1.2648e+00
7.5859e+04	1.2610e+00	1.2648e+00	1.2648e+00
7.5946e+04	1.2615e+00	1.2657e+00	1.2657e+00
7.6032e+04	1.2620e+00	1.2662e+00	1.2662e+00
7.6118e+04	1.2625e+00	1.2662e+00	1.2662e+00
7.6205e+04	1.2629e+00	1.2672e+00	1.2672e+00
7.6291e+04	1.2634e+00	1.2672e+00	1.2672e+00
7.6378e+04	1.2639e+00	1.2681e+00	1.2681e+00
7.6464e+04	1.2644e+00	1.2686e+00	1.2686e+00
7.6550e+04	1.2649e+00	1.2686e+00	1.2686e+00
7.6637e+04	1.2653e+00	1.2696e+00	1.2696e+00
7.6723e+04	1.2658e+00	1.2696e+00	1.2696e+00
7.6810e+04	1.2663e+00	1.2705e+00	1.2705e+00
7.6896e+04	1.2668e+00	1.2710e+00	1.2710e+00
7.6982e+04	1.2672e+00	1.2710e+00	1.2710e+00
7.7069e+04	1.2677e+00	1.2720e+00	1.2720e+00
7.7155e+04	1.2682e+00	1.2720e+00	1.2720e+00
7.7242e+04	1.2687e+00	1.2729e+00	1.2729e+00
7.7328e+04	1.2691e+00	1.2734e+00	1.2734e+00
7.7414e+04	1.2696e+00	1.2734e+00	1.2734e+00
7.7501e+04	1.2701e+00	1.2743e+00	1.2743e+00
7.7587e+04	1.2706e+00	1.2743e+00	1.2743e+00
7.7674e+04	1.2710e+00	1.2753e+00	1.2753e+00
7.7760e+04	1.2715e+00	1.2757e+00	1.2757e+00
7.7846e+04	1.2720e+00	1.2757e+00	1.2757e+00
7.7933e+04	1.2725e+00	1.2767e+00	1.2767e+00
7.8019e+04	1.2729e+00	1.2767e+00	1.2767e+00
7.8106e+04	1.2734e+00	1.2776e+00	1.2776e+00
7.8192e+04	1.2739e+00	1.2781e+00	1.2781e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.8278e+04	1.2743e+00	1.2781e+00	1.2781e+00
7.8365e+04	1.2748e+00	1.2790e+00	1.2790e+00
7.8451e+04	1.2753e+00	1.2790e+00	1.2790e+00
7.8538e+04	1.2757e+00	1.2799e+00	1.2799e+00
7.8624e+04	1.2762e+00	1.2804e+00	1.2804e+00
7.8710e+04	1.2767e+00	1.2804e+00	1.2804e+00
7.8797e+04	1.2771e+00	1.2813e+00	1.2813e+00
7.8883e+04	1.2776e+00	1.2813e+00	1.2813e+00
7.8970e+04	1.2781e+00	1.2823e+00	1.2823e+00
7.9056e+04	1.2785e+00	1.2827e+00	1.2827e+00
7.9142e+04	1.2790e+00	1.2827e+00	1.2827e+00
7.9229e+04	1.2795e+00	1.2836e+00	1.2836e+00
7.9315e+04	1.2799e+00	1.2836e+00	1.2836e+00
7.9402e+04	1.2804e+00	1.2846e+00	1.2846e+00
7.9488e+04	1.2808e+00	1.2850e+00	1.2850e+00
7.9574e+04	1.2813e+00	1.2850e+00	1.2850e+00
7.9661e+04	1.2818e+00	1.2859e+00	1.2859e+00
7.9747e+04	1.2822e+00	1.2859e+00	1.2859e+00
7.9834e+04	1.2827e+00	1.2869e+00	1.2869e+00
7.9920e+04	1.2831e+00	1.2873e+00	1.2873e+00
8.0006e+04	1.2836e+00	1.2873e+00	1.2873e+00
8.0093e+04	1.2841e+00	1.2882e+00	1.2882e+00
8.0179e+04	1.2845e+00	1.2882e+00	1.2882e+00
8.0266e+04	1.2850e+00	1.2891e+00	1.2891e+00
8.0352e+04	1.2854e+00	1.2896e+00	1.2896e+00
8.0438e+04	1.2859e+00	1.2896e+00	1.2896e+00
8.0525e+04	1.2864e+00	1.2905e+00	1.2905e+00
8.0611e+04	1.2868e+00	1.2905e+00	1.2905e+00
8.0698e+04	1.2873e+00	1.2914e+00	1.2914e+00
8.0784e+04	1.2877e+00	1.2919e+00	1.2919e+00
8.0870e+04	1.2882e+00	1.2919e+00	1.2919e+00
8.0957e+04	1.2886e+00	1.2928e+00	1.2928e+00
8.1043e+04	1.2891e+00	1.2928e+00	1.2928e+00
8.1130e+04	1.2895e+00	1.2937e+00	1.2937e+00
8.1216e+04	1.2900e+00	1.2941e+00	1.2941e+00
8.1302e+04	1.2904e+00	1.2941e+00	1.2941e+00
8.1389e+04	1.2909e+00	1.2950e+00	1.2950e+00
8.1475e+04	1.2913e+00	1.2950e+00	1.2950e+00
8.1562e+04	1.2918e+00	1.2959e+00	1.2959e+00
8.1648e+04	1.2922e+00	1.2964e+00	1.2964e+00

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x	$A(x)$	P_{v1}	P_{v2}
8.1734e+04	1.2927e+00	1.2964e+00	1.2964e+00
8.1821e+04	1.2931e+00	1.2973e+00	1.2973e+00
8.1907e+04	1.2936e+00	1.2973e+00	1.2973e+00
8.1994e+04	1.2940e+00	1.2981e+00	1.2981e+00
8.2080e+04	1.2945e+00	1.2986e+00	1.2986e+00
8.2166e+04	1.2949e+00	1.2986e+00	1.2986e+00
8.2253e+04	1.2954e+00	1.2995e+00	1.2995e+00
8.2339e+04	1.2958e+00	1.2995e+00	1.2995e+00
8.2426e+04	1.2963e+00	1.3004e+00	1.3004e+00
8.2512e+04	1.2967e+00	1.3008e+00	1.3008e+00
8.2598e+04	1.2972e+00	1.3008e+00	1.3008e+00
8.2685e+04	1.2976e+00	1.3017e+00	1.3017e+00
8.2771e+04	1.2981e+00	1.3017e+00	1.3017e+00
8.2858e+04	1.2985e+00	1.3026e+00	1.3026e+00
8.2944e+04	1.2989e+00	1.3030e+00	1.3030e+00
8.3030e+04	1.2994e+00	1.3030e+00	1.3030e+00
8.3117e+04	1.2998e+00	1.3039e+00	1.3039e+00
8.3203e+04	1.3003e+00	1.3039e+00	1.3039e+00
8.3290e+04	1.3007e+00	1.3048e+00	1.3048e+00
8.3376e+04	1.3012e+00	1.3052e+00	1.3052e+00
8.3462e+04	1.3016e+00	1.3052e+00	1.3052e+00
8.3549e+04	1.3020e+00	1.3061e+00	1.3061e+00
8.3635e+04	1.3025e+00	1.3061e+00	1.3061e+00
8.3722e+04	1.3029e+00	1.3070e+00	1.3070e+00
8.3808e+04	1.3034e+00	1.3074e+00	1.3074e+00
8.3894e+04	1.3038e+00	1.3074e+00	1.3074e+00
8.3981e+04	1.3042e+00	1.3083e+00	1.3083e+00
8.4067e+04	1.3047e+00	1.3083e+00	1.3083e+00
8.4154e+04	1.3051e+00	1.3091e+00	1.3091e+00
8.4240e+04	1.3055e+00	1.3096e+00	1.3096e+00
8.4326e+04	1.3060e+00	1.3096e+00	1.3096e+00
8.4413e+04	1.3064e+00	1.3104e+00	1.3104e+00
8.4499e+04	1.3069e+00	1.3104e+00	1.3104e+00
8.4586e+04	1.3073e+00	1.3113e+00	1.3113e+00
8.4672e+04	1.3077e+00	1.3117e+00	1.3117e+00
8.4758e+04	1.3082e+00	1.3117e+00	1.3117e+00
8.4845e+04	1.3086e+00	1.3126e+00	1.3126e+00
8.4931e+04	1.3090e+00	1.3126e+00	1.3126e+00
8.5018e+04	1.3095e+00	1.3134e+00	1.3134e+00
8.5104e+04	1.3099e+00	1.3139e+00	1.3139e+00

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x	$A(x)$	P_{v1}	P_{v2}
8.5190e+04	1.3103e+00	1.3139e+00	1.3139e+00
8.5277e+04	1.3108e+00	1.3147e+00	1.3147e+00
8.5363e+04	1.3112e+00	1.3147e+00	1.3147e+00
8.5450e+04	1.3116e+00	1.3156e+00	1.3156e+00
8.5536e+04	1.3120e+00	1.3160e+00	1.3160e+00
8.5622e+04	1.3125e+00	1.3160e+00	1.3160e+00
8.5709e+04	1.3129e+00	1.3169e+00	1.3169e+00
8.5795e+04	1.3133e+00	1.3169e+00	1.3169e+00
8.5882e+04	1.3138e+00	1.3177e+00	1.3177e+00
8.5968e+04	1.3142e+00	1.3181e+00	1.3181e+00
8.6054e+04	1.3146e+00	1.3181e+00	1.3181e+00
8.6141e+04	1.3151e+00	1.3190e+00	1.3190e+00
8.6227e+04	1.3155e+00	1.3190e+00	1.3190e+00
8.6314e+04	1.3159e+00	1.3198e+00	1.3198e+00
8.6400e+04	1.3163e+00	1.3203e+00	1.3203e+00

Table B.4.35: Output for Problem 4.6-X55-Y00

x	$A(x)$	P_{v1}	P_{v2}
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
8.6400e+01	6.8798e-03	0.0000e+00	0.0000e+00
1.7280e+02	4.8821e-02	2.1572e-02	2.1572e-02
2.5920e+02	1.0423e-01	2.1572e-02	2.1572e-02
3.4560e+02	1.5944e-01	1.1100e-01	1.1100e-01
4.3200e+02	2.1100e-01	1.6203e-01	1.6203e-01
5.1840e+02	2.5837e-01	1.6203e-01	1.6203e-01
6.0480e+02	3.0179e-01	1.6203e-01	1.6203e-01
6.9120e+02	3.4169e-01	3.0149e-01	3.0149e-01
7.7760e+02	3.7851e-01	3.4174e-01	3.4174e-01
8.6400e+02	4.1264e-01	3.7909e-01	3.7909e-01
9.5040e+02	4.4441e-01	3.7909e-01	3.7909e-01
1.0368e+03	4.7411e-01	3.7909e-01	3.7909e-01
1.1232e+03	5.0198e-01	4.7657e-01	4.7657e-01
1.2096e+03	5.2823e-01	4.7657e-01	4.7657e-01
1.2960e+03	5.5303e-01	5.3189e-01	5.3189e-01
1.3824e+03	5.7652e-01	5.5723e-01	5.5723e-01
1.4688e+03	5.9883e-01	5.5723e-01	5.5723e-01
1.5552e+03	6.2008e-01	6.0403e-01	6.0403e-01
1.6416e+03	6.4036e-01	6.0403e-01	6.0403e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.7280e+03	6.5975e-01	6.4643e-01	6.4643e-01
1.8144e+03	6.7833e-01	6.6621e-01	6.6621e-01
1.9008e+03	6.9615e-01	6.6621e-01	6.6621e-01
1.9872e+03	7.1329e-01	7.0333e-01	7.0333e-01
2.0736e+03	7.2978e-01	7.0333e-01	7.0333e-01
2.1600e+03	7.4568e-01	7.3759e-01	7.3759e-01
2.2464e+03	7.6102e-01	7.5377e-01	7.5377e-01
2.3328e+03	7.7585e-01	7.6939e-01	7.6939e-01
2.4192e+03	7.9020e-01	7.6939e-01	7.6939e-01
2.5056e+03	8.0409e-01	7.6939e-01	7.6939e-01
2.5920e+03	8.1755e-01	8.1318e-01	8.1318e-01
2.6784e+03	8.3064e-01	8.2686e-01	8.2686e-01
2.7648e+03	8.4333e-01	8.4013e-01	8.4013e-01
2.8512e+03	8.5567e-01	8.4013e-01	8.4013e-01
2.9376e+03	8.6766e-01	8.4013e-01	8.4013e-01
3.0240e+03	8.7934e-01	8.7770e-01	8.7770e-01
3.1104e+03	8.9072e-01	8.8955e-01	8.8955e-01
3.1968e+03	9.0181e-01	9.0108e-01	9.0108e-01
3.2832e+03	9.1262e-01	9.0108e-01	9.0108e-01
3.3696e+03	9.2318e-01	9.0108e-01	9.0108e-01
3.4560e+03	9.3349e-01	9.3397e-01	9.3397e-01
3.5424e+03	9.4356e-01	9.4441e-01	9.4441e-01
3.6288e+03	9.5340e-01	9.5461e-01	9.5461e-01
3.7152e+03	9.6304e-01	9.5461e-01	9.5461e-01
3.8016e+03	9.7248e-01	9.5461e-01	9.5461e-01
3.8880e+03	9.8171e-01	9.5461e-01	9.5461e-01
3.9744e+03	9.9076e-01	9.9318e-01	9.9318e-01
4.0608e+03	9.9963e-01	1.0023e+00	1.0023e+00
4.1472e+03	1.0083e+00	1.0023e+00	1.0023e+00
4.2336e+03	1.0168e+00	1.0200e+00	1.0200e+00
4.3200e+03	1.0252e+00	1.0286e+00	1.0286e+00
4.4064e+03	1.0334e+00	1.0286e+00	1.0286e+00
4.4928e+03	1.0413e+00	1.0454e+00	1.0454e+00
4.5792e+03	1.0492e+00	1.0454e+00	1.0454e+00
4.6656e+03	1.0570e+00	1.0615e+00	1.0615e+00
4.7520e+03	1.0646e+00	1.0693e+00	1.0693e+00
4.8384e+03	1.0721e+00	1.0693e+00	1.0693e+00
4.9248e+03	1.0794e+00	1.0845e+00	1.0845e+00
5.0112e+03	1.0867e+00	1.0845e+00	1.0845e+00
5.0976e+03	1.0938e+00	1.0993e+00	1.0993e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.1840e+03	1.1008e+00	1.1065e+00	1.1065e+00
5.2704e+03	1.1077e+00	1.1065e+00	1.1065e+00
5.3568e+03	1.1145e+00	1.1205e+00	1.1205e+00
5.4432e+03	1.1212e+00	1.1205e+00	1.1205e+00
5.5296e+03	1.1278e+00	1.1341e+00	1.1341e+00
5.6160e+03	1.1315e+00	1.1408e+00	1.1408e+00
5.7024e+03	1.1407e+00	1.1408e+00	1.1408e+00
5.7888e+03	1.1470e+00	1.1538e+00	1.1538e+00
5.8752e+03	1.1532e+00	1.1538e+00	1.1538e+00
5.9616e+03	1.1593e+00	1.1664e+00	1.1664e+00
6.0480e+03	1.1654e+00	1.1726e+00	1.1726e+00
6.1344e+03	1.1713e+00	1.1726e+00	1.1726e+00
6.2208e+03	1.1772e+00	1.1847e+00	1.1847e+00
6.3072e+03	1.1830e+00	1.1847e+00	1.1847e+00
6.3936e+03	1.1887e+00	1.1964e+00	1.1964e+00
6.4800e+03	1.1944e+00	1.2022e+00	1.2022e+00
6.5664e+03	1.2000e+00	1.2022e+00	1.2022e+00
6.6528e+03	1.2055e+00	1.2135e+00	1.2135e+00
6.7392e+03	1.2109e+00	1.2135e+00	1.2135e+00
6.8256e+03	1.2163e+00	1.2246e+00	1.2246e+00
6.9120e+03	1.2216e+00	1.2300e+00	1.2300e+00
6.9984e+03	1.2269e+00	1.2300e+00	1.2300e+00
7.0848e+03	1.2321e+00	1.2406e+00	1.2406e+00
7.1712e+03	1.2372e+00	1.2406e+00	1.2406e+00
7.2576e+03	1.2423e+00	1.2510e+00	1.2510e+00
7.3440e+03	1.2473e+00	1.2510e+00	1.2510e+00
7.4304e+03	1.2522e+00	1.2510e+00	1.2510e+00
7.5168e+03	1.2571e+00	1.2661e+00	1.2661e+00
7.6032e+03	1.2620e+00	1.2661e+00	1.2661e+00
7.6896e+03	1.2668e+00	1.2759e+00	1.2759e+00
7.7760e+03	1.2715e+00	1.2759e+00	1.2759e+00
7.8624e+03	1.2762e+00	1.2759e+00	1.2759e+00
7.9488e+03	1.2808e+00	1.2902e+00	1.2902e+00
8.0352e+03	1.2854e+00	1.2902e+00	1.2902e+00
8.1216e+03	1.2900e+00	1.2995e+00	1.2995e+00
8.2080e+03	1.2945e+00	1.3040e+00	1.3040e+00
8.2944e+03	1.2989e+00	1.3040e+00	1.3040e+00
8.3808e+03	1.3034e+00	1.3040e+00	1.3040e+00
8.4672e+03	1.3077e+00	1.3175e+00	1.3175e+00
8.5536e+03	1.3120e+00	1.3219e+00	1.3219e+00

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x	$A(x)$	P_{v1}	P_{v2}
8.6400e+03	1.3163e+00	1.3262e+00	1.3262e+00
8.7264e+03	1.3206e+00	1.3262e+00	1.3262e+00
8.8128e+03	1.3248e+00	1.3262e+00	1.3262e+00
8.8992e+03	1.3289e+00	1.3390e+00	1.3390e+00
8.9856e+03	1.3331e+00	1.3431e+00	1.3431e+00
9.0720e+03	1.3371e+00	1.3473e+00	1.3473e+00
9.1584e+03	1.3412e+00	1.3473e+00	1.3473e+00
9.2448e+03	1.3452e+00	1.3473e+00	1.3473e+00
9.3312e+03	1.3492e+00	1.3595e+00	1.3595e+00
9.4176e+03	1.3531e+00	1.3634e+00	1.3634e+00
9.5040e+03	1.3570e+00	1.3674e+00	1.3674e+00
9.5904e+03	1.3609e+00	1.3674e+00	1.3674e+00
9.6768e+03	1.3647e+00	1.3674e+00	1.3674e+00
9.7632e+03	1.3685e+00	1.3790e+00	1.3790e+00
9.8496e+03	1.3723e+00	1.3828e+00	1.3828e+00
9.9360e+03	1.3761e+00	1.3866e+00	1.3866e+00
1.0022e+04	1.3798e+00	1.3866e+00	1.3866e+00
1.0109e+04	1.3834e+00	1.3866e+00	1.3866e+00
1.0195e+04	1.3871e+00	1.3978e+00	1.3978e+00
1.0282e+04	1.3907e+00	1.4014e+00	1.4014e+00
1.0368e+04	1.3943e+00	1.4050e+00	1.4050e+00
1.0454e+04	1.3978e+00	1.4050e+00	1.4050e+00
1.0541e+04	1.4014e+00	1.4050e+00	1.4050e+00
1.0627e+04	1.4049e+00	1.4157e+00	1.4157e+00
1.0714e+04	1.4084e+00	1.4192e+00	1.4192e+00
1.0800e+04	1.4118e+00	1.4227e+00	1.4227e+00
1.0886e+04	1.4152e+00	1.4227e+00	1.4227e+00
1.0973e+04	1.4186e+00	1.4227e+00	1.4227e+00
1.1059e+04	1.4190e+00	1.4330e+00	1.4330e+00
1.1146e+04	1.4222e+00	1.4364e+00	1.4364e+00
1.1232e+04	1.4254e+00	1.4397e+00	1.4397e+00
1.1318e+04	1.4286e+00	1.4397e+00	1.4397e+00
1.1405e+04	1.4318e+00	1.4397e+00	1.4397e+00
1.1491e+04	1.4384e+00	1.4496e+00	1.4496e+00
1.1578e+04	1.4416e+00	1.4528e+00	1.4528e+00
1.1664e+04	1.4448e+00	1.4561e+00	1.4561e+00
1.1750e+04	1.4480e+00	1.4561e+00	1.4561e+00
1.1837e+04	1.4512e+00	1.4561e+00	1.4561e+00
1.1923e+04	1.4543e+00	1.4656e+00	1.4656e+00
1.2010e+04	1.4574e+00	1.4687e+00	1.4687e+00

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x	$A(x)$	P_{v1}	P_{v2}
1.2096e+04	1.4605e+00	1.4718e+00	1.4718e+00
1.2182e+04	1.4635e+00	1.4718e+00	1.4718e+00
1.2269e+04	1.4666e+00	1.4718e+00	1.4718e+00
1.2355e+04	1.4696e+00	1.4810e+00	1.4810e+00
1.2442e+04	1.4726e+00	1.4841e+00	1.4841e+00
1.2528e+04	1.4755e+00	1.4871e+00	1.4871e+00
1.2614e+04	1.4785e+00	1.4871e+00	1.4871e+00
1.2701e+04	1.4814e+00	1.4871e+00	1.4871e+00
1.2787e+04	1.4843e+00	1.4959e+00	1.4959e+00
1.2874e+04	1.4872e+00	1.4989e+00	1.4989e+00
1.2960e+04	1.4901e+00	1.5018e+00	1.5018e+00
1.3046e+04	1.4929e+00	1.5018e+00	1.5018e+00
1.3133e+04	1.4958e+00	1.5018e+00	1.5018e+00
1.3219e+04	1.4986e+00	1.5104e+00	1.5104e+00
1.3306e+04	1.5014e+00	1.5132e+00	1.5132e+00
1.3392e+04	1.5042e+00	1.5160e+00	1.5160e+00
1.3478e+04	1.5069e+00	1.5160e+00	1.5160e+00
1.3565e+04	1.5097e+00	1.5160e+00	1.5160e+00
1.3651e+04	1.5124e+00	1.5243e+00	1.5243e+00
1.3738e+04	1.5151e+00	1.5271e+00	1.5271e+00
1.3824e+04	1.5178e+00	1.5298e+00	1.5298e+00
1.3910e+04	1.5205e+00	1.5298e+00	1.5298e+00
1.3997e+04	1.5231e+00	1.5298e+00	1.5298e+00
1.4083e+04	1.5258e+00	1.5378e+00	1.5378e+00
1.4170e+04	1.5284e+00	1.5405e+00	1.5405e+00
1.4256e+04	1.5310e+00	1.5405e+00	1.5405e+00
1.4342e+04	1.5336e+00	1.5405e+00	1.5405e+00
1.4429e+04	1.5362e+00	1.5405e+00	1.5405e+00
1.4515e+04	1.5387e+00	1.5510e+00	1.5510e+00
1.4602e+04	1.5413e+00	1.5535e+00	1.5535e+00
1.4688e+04	1.5438e+00	1.5535e+00	1.5535e+00
1.4774e+04	1.5463e+00	1.5535e+00	1.5535e+00
1.4861e+04	1.5488e+00	1.5535e+00	1.5535e+00
1.4947e+04	1.5513e+00	1.5637e+00	1.5637e+00
1.5034e+04	1.5537e+00	1.5662e+00	1.5662e+00
1.5120e+04	1.5562e+00	1.5662e+00	1.5662e+00
1.5206e+04	1.5586e+00	1.5662e+00	1.5662e+00
1.5293e+04	1.5611e+00	1.5662e+00	1.5662e+00
1.5379e+04	1.5635e+00	1.5761e+00	1.5761e+00
1.5466e+04	1.5659e+00	1.5785e+00	1.5785e+00

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x	$A(x)$	P_{v1}	P_{v2}
1.5552e+04	1.5682e+00	1.5785e+00	1.5785e+00
1.5638e+04	1.5706e+00	1.5785e+00	1.5785e+00
1.5725e+04	1.5730e+00	1.5785e+00	1.5785e+00
1.5811e+04	1.5753e+00	1.5881e+00	1.5881e+00
1.5898e+04	1.5776e+00	1.5905e+00	1.5905e+00
1.5984e+04	1.5799e+00	1.5905e+00	1.5905e+00
1.6070e+04	1.5822e+00	1.5905e+00	1.5905e+00
1.6157e+04	1.5845e+00	1.5905e+00	1.5905e+00
1.6243e+04	1.5868e+00	1.5998e+00	1.5998e+00
1.6330e+04	1.5891e+00	1.6021e+00	1.6021e+00
1.6416e+04	1.5913e+00	1.6044e+00	1.6044e+00
1.6502e+04	1.5936e+00	1.6067e+00	1.6067e+00
1.6589e+04	1.5958e+00	1.6067e+00	1.6067e+00
1.6675e+04	1.5980e+00	1.6112e+00	1.6112e+00
1.6762e+04	1.6002e+00	1.6112e+00	1.6112e+00
1.6848e+04	1.6024e+00	1.6157e+00	1.6157e+00
1.6934e+04	1.6046e+00	1.6179e+00	1.6179e+00
1.7021e+04	1.6067e+00	1.6179e+00	1.6179e+00
1.7107e+04	1.6089e+00	1.6224e+00	1.6224e+00
1.7194e+04	1.6110e+00	1.6224e+00	1.6224e+00
1.7280e+04	1.6132e+00	1.6267e+00	1.6267e+00
1.7366e+04	1.6153e+00	1.6289e+00	1.6289e+00
1.7453e+04	1.6174e+00	1.6289e+00	1.6289e+00
1.7539e+04	1.6195e+00	1.6332e+00	1.6332e+00
1.7626e+04	1.6216e+00	1.6332e+00	1.6332e+00
1.7712e+04	1.6237e+00	1.6375e+00	1.6375e+00
1.7798e+04	1.6257e+00	1.6396e+00	1.6396e+00
1.7885e+04	1.6278e+00	1.6396e+00	1.6396e+00
1.7971e+04	1.6298e+00	1.6438e+00	1.6438e+00
1.8058e+04	1.6319e+00	1.6438e+00	1.6438e+00
1.8144e+04	1.6339e+00	1.6480e+00	1.6480e+00
1.8230e+04	1.6359e+00	1.6500e+00	1.6500e+00
1.8317e+04	1.6379e+00	1.6500e+00	1.6500e+00
1.8403e+04	1.6399e+00	1.6541e+00	1.6541e+00
1.8490e+04	1.6419e+00	1.6541e+00	1.6541e+00
1.8576e+04	1.6439e+00	1.6582e+00	1.6582e+00
1.8662e+04	1.6458e+00	1.6602e+00	1.6602e+00
1.8749e+04	1.6478e+00	1.6602e+00	1.6602e+00
1.8835e+04	1.6497e+00	1.6642e+00	1.6642e+00
1.8922e+04	1.6517e+00	1.6642e+00	1.6642e+00

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x	$A(x)$	P_{v1}	P_{v2}
1.9008e+04	1.6536e+00	1.6682e+00	1.6682e+00
1.9094e+04	1.6555e+00	1.6702e+00	1.6702e+00
1.9181e+04	1.6574e+00	1.6702e+00	1.6702e+00
1.9267e+04	1.6593e+00	1.6741e+00	1.6741e+00
1.9354e+04	1.6612e+00	1.6741e+00	1.6741e+00
1.9440e+04	1.6631e+00	1.6780e+00	1.6780e+00
1.9526e+04	1.6650e+00	1.6799e+00	1.6799e+00
1.9613e+04	1.6668e+00	1.6799e+00	1.6799e+00
1.9699e+04	1.6687e+00	1.6837e+00	1.6837e+00
1.9786e+04	1.6705e+00	1.6837e+00	1.6837e+00
1.9872e+04	1.6724e+00	1.6875e+00	1.6875e+00
1.9958e+04	1.6742e+00	1.6894e+00	1.6894e+00
2.0045e+04	1.6760e+00	1.6894e+00	1.6894e+00
2.0131e+04	1.6778e+00	1.6932e+00	1.6932e+00
2.0218e+04	1.6797e+00	1.6932e+00	1.6932e+00
2.0304e+04	1.6815e+00	1.6969e+00	1.6969e+00
2.0390e+04	1.6832e+00	1.6987e+00	1.6987e+00
2.0477e+04	1.6850e+00	1.6987e+00	1.6987e+00
2.0563e+04	1.6868e+00	1.7024e+00	1.7024e+00
2.0650e+04	1.6886e+00	1.7024e+00	1.7024e+00
2.0736e+04	1.6903e+00	1.7061e+00	1.7061e+00
2.0822e+04	1.6921e+00	1.7079e+00	1.7079e+00
2.0909e+04	1.6938e+00	1.7079e+00	1.7079e+00
2.0995e+04	1.6956e+00	1.7115e+00	1.7115e+00
2.1082e+04	1.6973e+00	1.7115e+00	1.7115e+00
2.1168e+04	1.6990e+00	1.7150e+00	1.7150e+00
2.1254e+04	1.7007e+00	1.7168e+00	1.7168e+00
2.1341e+04	1.7024e+00	1.7168e+00	1.7168e+00
2.1427e+04	1.7041e+00	1.7203e+00	1.7203e+00
2.1514e+04	1.7058e+00	1.7203e+00	1.7203e+00
2.1600e+04	1.7075e+00	1.7238e+00	1.7238e+00
2.1686e+04	1.7092e+00	1.7256e+00	1.7256e+00
2.1773e+04	1.7109e+00	1.7256e+00	1.7256e+00
2.1859e+04	1.7125e+00	1.7290e+00	1.7290e+00
2.1946e+04	1.7142e+00	1.7290e+00	1.7290e+00
2.2032e+04	1.7158e+00	1.7325e+00	1.7325e+00
2.2118e+04	1.7175e+00	1.7342e+00	1.7342e+00
2.2205e+04	1.7191e+00	1.7342e+00	1.7342e+00
2.2291e+04	1.7208e+00	1.7375e+00	1.7375e+00
2.2378e+04	1.7224e+00	1.7375e+00	1.7375e+00

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x	$A(x)$	P_{v1}	P_{v2}
2.2464e+04	1.7240e+00	1.7409e+00	1.7409e+00
2.2550e+04	1.7256e+00	1.7426e+00	1.7426e+00
2.2637e+04	1.7272e+00	1.7426e+00	1.7426e+00
2.2723e+04	1.7288e+00	1.7459e+00	1.7459e+00
2.2810e+04	1.7304e+00	1.7459e+00	1.7459e+00
2.2896e+04	1.7320e+00	1.7492e+00	1.7492e+00
2.2982e+04	1.7336e+00	1.7508e+00	1.7508e+00
2.3069e+04	1.7352e+00	1.7508e+00	1.7508e+00
2.3155e+04	1.7367e+00	1.7541e+00	1.7541e+00
2.3242e+04	1.7383e+00	1.7541e+00	1.7541e+00
2.3328e+04	1.7399e+00	1.7573e+00	1.7573e+00
2.3414e+04	1.7414e+00	1.7590e+00	1.7590e+00
2.3501e+04	1.7430e+00	1.7590e+00	1.7590e+00
2.3587e+04	1.7445e+00	1.7622e+00	1.7622e+00
2.3674e+04	1.7460e+00	1.7622e+00	1.7622e+00
2.3760e+04	1.7476e+00	1.7653e+00	1.7653e+00
2.3846e+04	1.7491e+00	1.7669e+00	1.7669e+00
2.3933e+04	1.7506e+00	1.7669e+00	1.7669e+00
2.4019e+04	1.7521e+00	1.7701e+00	1.7701e+00
2.4106e+04	1.7536e+00	1.7701e+00	1.7701e+00
2.4192e+04	1.7551e+00	1.7732e+00	1.7732e+00
2.4278e+04	1.7566e+00	1.7747e+00	1.7747e+00
2.4365e+04	1.7581e+00	1.7747e+00	1.7747e+00
2.4451e+04	1.7596e+00	1.7778e+00	1.7778e+00
2.4538e+04	1.7611e+00	1.7778e+00	1.7778e+00
2.4624e+04	1.7626e+00	1.7809e+00	1.7809e+00
2.4710e+04	1.7640e+00	1.7824e+00	1.7824e+00
2.4797e+04	1.7655e+00	1.7824e+00	1.7824e+00
2.4883e+04	1.7670e+00	1.7855e+00	1.7855e+00
2.4970e+04	1.7684e+00	1.7855e+00	1.7855e+00
2.5056e+04	1.7699e+00	1.7885e+00	1.7885e+00
2.5142e+04	1.7713e+00	1.7900e+00	1.7900e+00
2.5229e+04	1.7728e+00	1.7900e+00	1.7900e+00
2.5315e+04	1.7742e+00	1.7930e+00	1.7930e+00
2.5402e+04	1.7756e+00	1.7930e+00	1.7930e+00
2.5488e+04	1.7771e+00	1.7959e+00	1.7959e+00
2.5574e+04	1.7785e+00	1.7974e+00	1.7974e+00
2.5661e+04	1.7799e+00	1.7974e+00	1.7974e+00
2.5747e+04	1.7813e+00	1.8003e+00	1.8003e+00
2.5834e+04	1.7827e+00	1.8003e+00	1.8003e+00

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x	$A(x)$	P_{v1}	P_{v2}
2.5920e+04	1.7841e+00	1.8033e+00	1.8033e+00
2.6006e+04	1.7908e+00	1.8047e+00	1.8047e+00
2.6093e+04	1.7922e+00	1.8047e+00	1.8047e+00
2.6179e+04	1.7936e+00	1.8076e+00	1.8076e+00
2.6266e+04	1.7951e+00	1.8076e+00	1.8076e+00
2.6352e+04	1.7965e+00	1.8105e+00	1.8105e+00
2.6438e+04	1.7979e+00	1.8119e+00	1.8119e+00
2.6525e+04	1.7993e+00	1.8119e+00	1.8119e+00
2.6611e+04	1.8007e+00	1.8147e+00	1.8147e+00
2.6698e+04	1.8021e+00	1.8147e+00	1.8147e+00
2.6784e+04	1.8035e+00	1.8175e+00	1.8175e+00
2.6870e+04	1.8049e+00	1.8189e+00	1.8189e+00
2.6957e+04	1.8063e+00	1.8189e+00	1.8189e+00
2.7043e+04	1.8077e+00	1.8217e+00	1.8217e+00
2.7130e+04	1.8091e+00	1.8217e+00	1.8217e+00
2.7216e+04	1.8105e+00	1.8245e+00	1.8245e+00
2.7302e+04	1.8118e+00	1.8259e+00	1.8259e+00
2.7389e+04	1.8132e+00	1.8259e+00	1.8259e+00
2.7475e+04	1.8146e+00	1.8287e+00	1.8287e+00
2.7562e+04	1.8159e+00	1.8287e+00	1.8287e+00
2.7648e+04	1.8173e+00	1.8314e+00	1.8314e+00
2.7734e+04	1.8186e+00	1.8327e+00	1.8327e+00
2.7821e+04	1.8200e+00	1.8327e+00	1.8327e+00
2.7907e+04	1.8213e+00	1.8355e+00	1.8355e+00
2.7994e+04	1.8227e+00	1.8355e+00	1.8355e+00
2.8080e+04	1.8240e+00	1.8355e+00	1.8355e+00
2.8166e+04	1.8253e+00	1.8395e+00	1.8395e+00
2.8253e+04	1.8266e+00	1.8395e+00	1.8395e+00
2.8339e+04	1.8280e+00	1.8421e+00	1.8421e+00
2.8426e+04	1.8293e+00	1.8421e+00	1.8421e+00
2.8512e+04	1.8306e+00	1.8421e+00	1.8421e+00
2.8598e+04	1.8319e+00	1.8461e+00	1.8461e+00
2.8685e+04	1.8332e+00	1.8461e+00	1.8461e+00
2.8771e+04	1.8345e+00	1.8487e+00	1.8487e+00
2.8858e+04	1.8358e+00	1.8487e+00	1.8487e+00
2.8944e+04	1.8371e+00	1.8487e+00	1.8487e+00
2.9030e+04	1.8384e+00	1.8527e+00	1.8527e+00
2.9117e+04	1.8397e+00	1.8527e+00	1.8527e+00
2.9203e+04	1.8409e+00	1.8552e+00	1.8552e+00
2.9290e+04	1.8422e+00	1.8552e+00	1.8552e+00

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x	$A(x)$	P_{v1}	P_{v2}
2.9376e+04	1.8435e+00	1.8552e+00	1.8552e+00
2.9462e+04	1.8448e+00	1.8591e+00	1.8591e+00
2.9549e+04	1.8460e+00	1.8591e+00	1.8591e+00
2.9635e+04	1.8473e+00	1.8616e+00	1.8616e+00
2.9722e+04	1.8485e+00	1.8616e+00	1.8616e+00
2.9808e+04	1.8498e+00	1.8616e+00	1.8616e+00
2.9894e+04	1.8510e+00	1.8654e+00	1.8654e+00
2.9981e+04	1.8523e+00	1.8654e+00	1.8654e+00
3.0067e+04	1.8535e+00	1.8680e+00	1.8680e+00
3.0154e+04	1.8548e+00	1.8680e+00	1.8680e+00
3.0240e+04	1.8560e+00	1.8680e+00	1.8680e+00
3.0326e+04	1.8572e+00	1.8717e+00	1.8717e+00
3.0413e+04	1.8585e+00	1.8717e+00	1.8717e+00
3.0499e+04	1.8597e+00	1.8742e+00	1.8742e+00
3.0586e+04	1.8609e+00	1.8742e+00	1.8742e+00
3.0672e+04	1.8621e+00	1.8742e+00	1.8742e+00
3.0758e+04	1.8633e+00	1.8779e+00	1.8779e+00
3.0845e+04	1.8645e+00	1.8779e+00	1.8779e+00
3.0931e+04	1.8657e+00	1.8803e+00	1.8803e+00
3.1018e+04	1.8669e+00	1.8803e+00	1.8803e+00
3.1104e+04	1.8681e+00	1.8803e+00	1.8803e+00
3.1190e+04	1.8693e+00	1.8839e+00	1.8839e+00
3.1277e+04	1.8705e+00	1.8839e+00	1.8839e+00
3.1363e+04	1.8717e+00	1.8864e+00	1.8864e+00
3.1450e+04	1.8729e+00	1.8864e+00	1.8864e+00
3.1536e+04	1.8741e+00	1.8864e+00	1.8864e+00
3.1622e+04	1.8753e+00	1.8899e+00	1.8899e+00
3.1709e+04	1.8764e+00	1.8899e+00	1.8899e+00
3.1795e+04	1.8776e+00	1.8923e+00	1.8923e+00
3.1882e+04	1.8788e+00	1.8923e+00	1.8923e+00
3.1968e+04	1.8799e+00	1.8923e+00	1.8923e+00
3.2054e+04	1.8811e+00	1.8959e+00	1.8959e+00
3.2141e+04	1.8823e+00	1.8959e+00	1.8959e+00
3.2227e+04	1.8834e+00	1.8982e+00	1.8982e+00
3.2314e+04	1.8846e+00	1.8982e+00	1.8982e+00
3.2400e+04	1.8857e+00	1.8982e+00	1.8982e+00
3.2486e+04	1.8869e+00	1.9017e+00	1.9017e+00
3.2573e+04	1.8880e+00	1.9017e+00	1.9017e+00
3.2659e+04	1.8891e+00	1.9040e+00	1.9040e+00
3.2746e+04	1.8903e+00	1.9040e+00	1.9040e+00

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x	$A(x)$	P_{v1}	P_{v2}
3.2832e+04	1.8914e+00	1.9063e+00	1.9063e+00
3.2918e+04	1.8925e+00	1.9075e+00	1.9075e+00
3.3005e+04	1.8937e+00	1.9086e+00	1.9086e+00
3.3091e+04	1.9701e+00	1.9086e+00	1.9086e+00
3.3178e+04	1.8959e+00	1.9086e+00	1.9086e+00
3.3264e+04	1.8970e+00	1.9120e+00	1.9120e+00
3.3350e+04	1.8981e+00	1.9132e+00	1.9132e+00
3.3437e+04	1.8992e+00	1.9143e+00	1.9143e+00
3.3523e+04	1.9004e+00	1.9143e+00	1.9143e+00
3.3610e+04	1.9015e+00	1.9143e+00	1.9143e+00
3.3696e+04	1.9026e+00	1.9176e+00	1.9176e+00
3.3782e+04	1.9037e+00	1.9188e+00	1.9188e+00
3.3869e+04	1.9048e+00	1.9199e+00	1.9199e+00
3.3955e+04	1.9058e+00	1.9199e+00	1.9199e+00
3.4042e+04	1.9069e+00	1.9199e+00	1.9199e+00
3.4128e+04	1.9080e+00	1.9232e+00	1.9232e+00
3.4214e+04	1.9091e+00	1.9243e+00	1.9243e+00
3.4301e+04	1.9102e+00	1.9254e+00	1.9254e+00
3.4387e+04	1.9113e+00	1.9254e+00	1.9254e+00
3.4474e+04	1.9123e+00	1.9254e+00	1.9254e+00
3.4560e+04	1.9134e+00	1.9287e+00	1.9287e+00
3.4646e+04	1.9145e+00	1.9298e+00	1.9298e+00
3.4733e+04	1.9155e+00	1.9309e+00	1.9309e+00
3.4819e+04	1.9166e+00	1.9309e+00	1.9309e+00
3.4906e+04	1.9177e+00	1.9309e+00	1.9309e+00
3.4992e+04	1.9187e+00	1.9341e+00	1.9341e+00
3.5078e+04	1.9198e+00	1.9352e+00	1.9352e+00
3.5165e+04	1.9208e+00	1.9363e+00	1.9363e+00
3.5251e+04	1.9219e+00	1.9363e+00	1.9363e+00
3.5338e+04	1.9229e+00	1.9363e+00	1.9363e+00
3.5424e+04	1.9240e+00	1.9395e+00	1.9395e+00
3.5510e+04	1.9250e+00	1.9405e+00	1.9405e+00
3.5597e+04	1.9261e+00	1.9416e+00	1.9416e+00
3.5683e+04	1.9271e+00	1.9416e+00	1.9416e+00
3.5770e+04	1.9281e+00	1.9416e+00	1.9416e+00
3.5856e+04	1.9292e+00	1.9448e+00	1.9448e+00
3.5942e+04	1.9302e+00	1.9458e+00	1.9458e+00
3.6029e+04	1.9312e+00	1.9469e+00	1.9469e+00
3.6115e+04	1.9322e+00	1.9469e+00	1.9469e+00
3.6202e+04	1.9333e+00	1.9469e+00	1.9469e+00

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x	$A(x)$	P_{v1}	P_{v2}
3.6288e+04	1.9343e+00	1.9500e+00	1.9500e+00
3.6374e+04	1.9353e+00	1.9510e+00	1.9510e+00
3.6461e+04	1.9363e+00	1.9521e+00	1.9521e+00
3.6547e+04	1.9373e+00	1.9521e+00	1.9521e+00
3.6634e+04	1.9383e+00	1.9521e+00	1.9521e+00
3.6720e+04	1.9393e+00	1.9551e+00	1.9551e+00
3.6806e+04	1.9403e+00	1.9562e+00	1.9562e+00
3.6893e+04	1.9413e+00	1.9572e+00	1.9572e+00
3.6979e+04	1.9423e+00	1.9572e+00	1.9572e+00
3.7066e+04	1.9433e+00	1.9572e+00	1.9572e+00
3.7152e+04	1.9443e+00	1.9602e+00	1.9602e+00
3.7238e+04	1.9453e+00	1.9613e+00	1.9613e+00
3.7325e+04	1.9463e+00	1.9623e+00	1.9623e+00
3.7411e+04	1.9473e+00	1.9623e+00	1.9623e+00
3.7498e+04	1.9483e+00	1.9623e+00	1.9623e+00
3.7584e+04	1.9493e+00	1.9653e+00	1.9653e+00
3.7670e+04	1.9502e+00	1.9663e+00	1.9663e+00
3.7757e+04	1.9512e+00	1.9673e+00	1.9673e+00
3.7843e+04	1.9522e+00	1.9673e+00	1.9673e+00
3.7930e+04	1.9532e+00	1.9673e+00	1.9673e+00
3.8016e+04	1.9541e+00	1.9703e+00	1.9703e+00
3.8102e+04	1.9551e+00	1.9713e+00	1.9713e+00
3.8189e+04	1.9561e+00	1.9723e+00	1.9723e+00
3.8275e+04	1.9570e+00	1.9723e+00	1.9723e+00
3.8362e+04	1.9580e+00	1.9723e+00	1.9723e+00
3.8448e+04	1.9589e+00	1.9752e+00	1.9752e+00
3.8534e+04	1.9599e+00	1.9762e+00	1.9762e+00
3.8621e+04	1.9608e+00	1.9772e+00	1.9772e+00
3.8707e+04	1.9618e+00	1.9772e+00	1.9772e+00
3.8794e+04	1.9627e+00	1.9772e+00	1.9772e+00
3.8880e+04	1.9637e+00	1.9801e+00	1.9801e+00
3.8966e+04	1.9646e+00	1.9811e+00	1.9811e+00
3.9053e+04	1.9656e+00	1.9820e+00	1.9820e+00
3.9139e+04	1.9665e+00	1.9820e+00	1.9820e+00
3.9226e+04	1.9674e+00	1.9820e+00	1.9820e+00
3.9312e+04	1.9684e+00	1.9849e+00	1.9849e+00
3.9398e+04	1.9693e+00	1.9859e+00	1.9859e+00
3.9485e+04	1.9702e+00	1.9868e+00	1.9868e+00
3.9571e+04	1.9712e+00	1.9868e+00	1.9868e+00
3.9658e+04	1.9721e+00	1.9868e+00	1.9868e+00

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x	$A(x)$	P_{v1}	P_{v2}
3.9744e+04	1.9730e+00	1.9897e+00	1.9897e+00
3.9830e+04	1.9739e+00	1.9906e+00	1.9906e+00
3.9917e+04	1.9749e+00	1.9916e+00	1.9916e+00
4.0003e+04	1.9758e+00	1.9916e+00	1.9916e+00
4.0090e+04	1.9767e+00	1.9916e+00	1.9916e+00
4.0176e+04	1.9776e+00	1.9944e+00	1.9944e+00
4.0262e+04	1.9785e+00	1.9953e+00	1.9953e+00
4.0349e+04	1.9794e+00	1.9963e+00	1.9963e+00
4.0435e+04	1.9803e+00	1.9963e+00	1.9963e+00
4.0522e+04	1.9813e+00	1.9963e+00	1.9963e+00
4.0608e+04	1.9822e+00	1.9991e+00	1.9991e+00
4.0694e+04	1.9831e+00	2.0000e+00	2.0000e+00
4.0781e+04	1.9840e+00	2.0009e+00	2.0009e+00
4.0867e+04	1.9849e+00	2.0009e+00	2.0009e+00
4.0954e+04	1.9858e+00	2.0009e+00	2.0009e+00
4.1040e+04	1.9866e+00	2.0037e+00	2.0037e+00
4.1126e+04	1.9875e+00	2.0046e+00	2.0046e+00
4.1213e+04	1.9884e+00	2.0055e+00	2.0055e+00
4.1299e+04	1.9893e+00	2.0055e+00	2.0055e+00
4.1386e+04	1.9902e+00	2.0055e+00	2.0055e+00
4.1472e+04	1.9911e+00	2.0083e+00	2.0083e+00
4.1558e+04	1.9920e+00	2.0092e+00	2.0092e+00
4.1645e+04	1.9929e+00	2.0101e+00	2.0101e+00
4.1731e+04	1.9937e+00	2.0101e+00	2.0101e+00
4.1818e+04	1.9946e+00	2.0101e+00	2.0101e+00
4.1904e+04	1.9955e+00	2.0128e+00	2.0128e+00
4.1990e+04	1.9964e+00	2.0137e+00	2.0137e+00
4.2077e+04	1.9972e+00	2.0146e+00	2.0146e+00
4.2163e+04	1.9981e+00	2.0146e+00	2.0146e+00
4.2250e+04	1.9990e+00	2.0146e+00	2.0146e+00
4.2336e+04	1.9998e+00	2.0173e+00	2.0173e+00
4.2422e+04	2.0007e+00	2.0181e+00	2.0181e+00
4.2509e+04	2.0015e+00	2.0190e+00	2.0190e+00
4.2595e+04	2.0024e+00	2.0190e+00	2.0190e+00
4.2682e+04	2.0033e+00	2.0190e+00	2.0190e+00
4.2768e+04	2.0041e+00	2.0217e+00	2.0217e+00
4.2854e+04	2.0050e+00	2.0226e+00	2.0226e+00
4.2941e+04	2.0058e+00	2.0234e+00	2.0234e+00
4.3027e+04	2.0067e+00	2.0234e+00	2.0234e+00
4.3114e+04	2.0075e+00	2.0234e+00	2.0234e+00

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x	$A(x)$	P_{v1}	P_{v2}
4.3200e+04	2.0084e+00	2.0261e+00	2.0261e+00
4.3286e+04	2.0092e+00	2.0269e+00	2.0269e+00
4.3373e+04	2.0101e+00	2.0278e+00	2.0278e+00
4.3459e+04	2.0109e+00	2.0278e+00	2.0278e+00
4.3546e+04	2.0117e+00	2.0278e+00	2.0278e+00
4.3632e+04	2.0126e+00	2.0304e+00	2.0304e+00
4.3718e+04	2.0134e+00	2.0313e+00	2.0313e+00
4.3805e+04	2.0143e+00	2.0321e+00	2.0321e+00
4.3891e+04	2.0151e+00	2.0321e+00	2.0321e+00
4.3978e+04	2.0159e+00	2.0321e+00	2.0321e+00
4.4064e+04	2.0168e+00	2.0347e+00	2.0347e+00
4.4150e+04	2.0176e+00	2.0356e+00	2.0356e+00
4.4237e+04	2.0184e+00	2.0364e+00	2.0364e+00
4.4323e+04	2.0192e+00	2.0364e+00	2.0364e+00
4.4410e+04	2.0201e+00	2.0364e+00	2.0364e+00
4.4496e+04	2.0209e+00	2.0390e+00	2.0390e+00
4.4582e+04	2.0217e+00	2.0398e+00	2.0398e+00
4.4669e+04	2.0225e+00	2.0407e+00	2.0407e+00
4.4755e+04	2.0233e+00	2.0407e+00	2.0407e+00
4.4842e+04	2.0242e+00	2.0407e+00	2.0407e+00
4.4928e+04	2.0250e+00	2.0432e+00	2.0432e+00
4.5014e+04	2.0258e+00	2.0440e+00	2.0440e+00
4.5101e+04	2.0266e+00	2.0449e+00	2.0449e+00
4.5187e+04	2.0274e+00	2.0449e+00	2.0449e+00
4.5274e+04	2.0282e+00	2.0449e+00	2.0449e+00
4.5360e+04	2.0290e+00	2.0474e+00	2.0474e+00
4.5446e+04	2.0298e+00	2.0482e+00	2.0482e+00
4.5533e+04	2.0306e+00	2.0490e+00	2.0490e+00
4.5619e+04	2.0314e+00	2.0490e+00	2.0490e+00
4.5706e+04	2.0322e+00	2.0490e+00	2.0490e+00
4.5792e+04	2.0330e+00	2.0515e+00	2.0515e+00
4.5878e+04	2.0338e+00	2.0523e+00	2.0523e+00
4.5965e+04	2.0346e+00	2.0532e+00	2.0532e+00
4.6051e+04	2.0354e+00	2.0532e+00	2.0532e+00
4.6138e+04	2.0362e+00	2.0532e+00	2.0532e+00
4.6224e+04	2.0370e+00	2.0556e+00	2.0556e+00
4.6310e+04	2.0378e+00	2.0564e+00	2.0564e+00
4.6397e+04	2.0386e+00	2.0572e+00	2.0572e+00
4.6483e+04	2.0393e+00	2.0572e+00	2.0572e+00
4.6570e+04	2.0401e+00	2.0572e+00	2.0572e+00

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x	$A(x)$	P_{v1}	P_{v2}
4.6656e+04	2.0409e+00	2.0597e+00	2.0597e+00
4.6742e+04	2.0417e+00	2.0605e+00	2.0605e+00
4.6829e+04	2.0425e+00	2.0613e+00	2.0613e+00
4.6915e+04	2.0433e+00	2.0613e+00	2.0613e+00
4.7002e+04	2.0440e+00	2.0613e+00	2.0613e+00
4.7088e+04	2.0448e+00	2.0637e+00	2.0637e+00
4.7174e+04	2.0456e+00	2.0645e+00	2.0645e+00
4.7261e+04	2.0464e+00	2.0653e+00	2.0653e+00
4.7347e+04	2.0471e+00	2.0653e+00	2.0653e+00
4.7434e+04	2.0479e+00	2.0653e+00	2.0653e+00
4.7520e+04	2.0487e+00	2.0677e+00	2.0677e+00
4.7606e+04	2.0494e+00	2.0685e+00	2.0685e+00
4.7693e+04	2.0502e+00	2.0693e+00	2.0693e+00
4.7779e+04	2.0510e+00	2.0693e+00	2.0693e+00
4.7866e+04	2.0517e+00	2.0693e+00	2.0693e+00
4.7952e+04	2.0525e+00	2.0716e+00	2.0716e+00
4.8038e+04	2.0532e+00	2.0724e+00	2.0724e+00
4.8125e+04	2.0540e+00	2.0732e+00	2.0732e+00
4.8211e+04	2.0548e+00	2.0732e+00	2.0732e+00
4.8298e+04	2.0555e+00	2.0732e+00	2.0732e+00
4.8384e+04	2.0563e+00	2.0755e+00	2.0755e+00
4.8470e+04	2.0570e+00	2.0763e+00	2.0763e+00
4.8557e+04	2.0578e+00	2.0771e+00	2.0771e+00
4.8643e+04	2.0585e+00	2.0771e+00	2.0771e+00
4.8730e+04	2.0593e+00	2.0771e+00	2.0771e+00
4.8816e+04	2.0600e+00	2.0794e+00	2.0794e+00
4.8902e+04	2.0608e+00	2.0802e+00	2.0802e+00
4.8989e+04	2.0615e+00	2.0810e+00	2.0810e+00
4.9075e+04	2.0623e+00	2.0810e+00	2.0810e+00
4.9162e+04	2.0630e+00	2.0810e+00	2.0810e+00
4.9248e+04	2.0637e+00	2.0833e+00	2.0833e+00
4.9334e+04	2.0645e+00	2.0840e+00	2.0840e+00
4.9421e+04	2.0652e+00	2.0848e+00	2.0848e+00
4.9507e+04	2.0660e+00	2.0848e+00	2.0848e+00
4.9594e+04	2.0667e+00	2.0848e+00	2.0848e+00
4.9680e+04	2.0674e+00	2.0871e+00	2.0871e+00
4.9766e+04	2.0682e+00	2.0878e+00	2.0878e+00
4.9853e+04	2.0689e+00	2.0886e+00	2.0886e+00
4.9939e+04	2.0696e+00	2.0886e+00	2.0886e+00
5.0026e+04	2.0704e+00	2.0886e+00	2.0886e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.0112e+04	2.0711e+00	2.0909e+00	2.0909e+00
5.0198e+04	2.0718e+00	2.0916e+00	2.0916e+00
5.0285e+04	2.0725e+00	2.0924e+00	2.0924e+00
5.0371e+04	2.0733e+00	2.0924e+00	2.0924e+00
5.0458e+04	2.0740e+00	2.0924e+00	2.0924e+00
5.0544e+04	2.0747e+00	2.0946e+00	2.0946e+00
5.0630e+04	2.0754e+00	2.0954e+00	2.0954e+00
5.0717e+04	2.0762e+00	2.0961e+00	2.0961e+00
5.0803e+04	2.0769e+00	2.0961e+00	2.0961e+00
5.0890e+04	2.0776e+00	2.0961e+00	2.0961e+00
5.0976e+04	2.0783e+00	2.0983e+00	2.0983e+00
5.1062e+04	2.0790e+00	2.0991e+00	2.0991e+00
5.1149e+04	2.0797e+00	2.0998e+00	2.0998e+00
5.1235e+04	2.0805e+00	2.0998e+00	2.0998e+00
5.1322e+04	2.0812e+00	2.0998e+00	2.0998e+00
5.1408e+04	2.0819e+00	2.1020e+00	2.1020e+00
5.1494e+04	2.0826e+00	2.1028e+00	2.1028e+00
5.1581e+04	2.0833e+00	2.1035e+00	2.1035e+00
5.1667e+04	2.0840e+00	2.1035e+00	2.1035e+00
5.1754e+04	2.0847e+00	2.1035e+00	2.1035e+00
5.1840e+04	2.0854e+00	2.1057e+00	2.1057e+00
5.1926e+04	2.0861e+00	2.1064e+00	2.1064e+00
5.2013e+04	2.0868e+00	2.1071e+00	2.1071e+00
5.2099e+04	2.0875e+00	2.1071e+00	2.1071e+00
5.2186e+04	2.0882e+00	2.1071e+00	2.1071e+00
5.2272e+04	2.0889e+00	2.1093e+00	2.1093e+00
5.2358e+04	2.0896e+00	2.1100e+00	2.1100e+00
5.2445e+04	2.0903e+00	2.1107e+00	2.1107e+00
5.2531e+04	2.0910e+00	2.1107e+00	2.1107e+00
5.2618e+04	2.0917e+00	2.1107e+00	2.1107e+00
5.2704e+04	2.0924e+00	2.1129e+00	2.1129e+00
5.2790e+04	2.0931e+00	2.1136e+00	2.1136e+00
5.2877e+04	2.0938e+00	2.1143e+00	2.1143e+00
5.2963e+04	2.0945e+00	2.1143e+00	2.1143e+00
5.3050e+04	2.0952e+00	2.1143e+00	2.1143e+00
5.3136e+04	2.0959e+00	2.1165e+00	2.1165e+00
5.3222e+04	2.0966e+00	2.1172e+00	2.1172e+00
5.3309e+04	2.0972e+00	2.1179e+00	2.1179e+00
5.3395e+04	2.0979e+00	2.1179e+00	2.1179e+00
5.3482e+04	2.0986e+00	2.1179e+00	2.1179e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.3568e+04	2.0993e+00	2.1200e+00	2.1200e+00
5.3654e+04	2.1000e+00	2.1207e+00	2.1207e+00
5.3741e+04	2.1007e+00	2.1214e+00	2.1214e+00
5.3827e+04	2.1013e+00	2.1214e+00	2.1214e+00
5.3914e+04	2.1020e+00	2.1214e+00	2.1214e+00
5.4000e+04	2.1027e+00	2.1235e+00	2.1235e+00
5.4086e+04	2.1034e+00	2.1242e+00	2.1242e+00
5.4173e+04	2.1041e+00	2.1249e+00	2.1249e+00
5.4259e+04	2.1047e+00	2.1249e+00	2.1249e+00
5.4346e+04	2.1054e+00	2.1249e+00	2.1249e+00
5.4432e+04	2.1061e+00	2.1270e+00	2.1270e+00
5.4518e+04	2.1068e+00	2.1277e+00	2.1277e+00
5.4605e+04	2.1074e+00	2.1284e+00	2.1284e+00
5.4691e+04	2.1081e+00	2.1284e+00	2.1284e+00
5.4778e+04	2.1088e+00	2.1284e+00	2.1284e+00
5.4864e+04	2.1094e+00	2.1304e+00	2.1304e+00
5.4950e+04	2.1101e+00	2.1311e+00	2.1311e+00
5.5037e+04	2.1108e+00	2.1318e+00	2.1318e+00
5.5123e+04	2.1114e+00	2.1318e+00	2.1318e+00
5.5210e+04	2.1121e+00	2.1318e+00	2.1318e+00
5.5296e+04	2.1128e+00	2.1338e+00	2.1338e+00
5.5382e+04	2.1134e+00	2.1345e+00	2.1345e+00
5.5469e+04	2.1141e+00	2.1352e+00	2.1352e+00
5.5555e+04	2.1147e+00	2.1352e+00	2.1352e+00
5.5642e+04	2.1154e+00	2.1352e+00	2.1352e+00
5.5728e+04	2.1161e+00	2.1352e+00	2.1352e+00
5.5814e+04	2.1167e+00	2.1379e+00	2.1379e+00
5.5901e+04	2.1174e+00	2.1386e+00	2.1386e+00
5.5987e+04	2.1180e+00	2.1386e+00	2.1386e+00
5.6074e+04	2.1187e+00	2.1386e+00	2.1386e+00
5.6160e+04	2.1193e+00	2.1386e+00	2.1386e+00
5.6246e+04	2.1200e+00	2.1413e+00	2.1413e+00
5.6333e+04	2.1207e+00	2.1420e+00	2.1420e+00
5.6419e+04	2.1213e+00	2.1420e+00	2.1420e+00
5.6506e+04	2.1220e+00	2.1420e+00	2.1420e+00
5.6592e+04	2.1226e+00	2.1420e+00	2.1420e+00
5.6678e+04	2.1233e+00	2.1446e+00	2.1446e+00
5.6765e+04	2.1239e+00	2.1453e+00	2.1453e+00
5.6851e+04	2.1245e+00	2.1453e+00	2.1453e+00
5.6938e+04	2.1252e+00	2.1453e+00	2.1453e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.7024e+04	2.1258e+00	2.1453e+00	2.1453e+00
5.7110e+04	2.1265e+00	2.1479e+00	2.1479e+00
5.7197e+04	2.1271e+00	2.1486e+00	2.1486e+00
5.7283e+04	2.1278e+00	2.1486e+00	2.1486e+00
5.7370e+04	2.1284e+00	2.1486e+00	2.1486e+00
5.7456e+04	2.1290e+00	2.1486e+00	2.1486e+00
5.7542e+04	2.1297e+00	2.1512e+00	2.1512e+00
5.7629e+04	2.1303e+00	2.1519e+00	2.1519e+00
5.7715e+04	2.1310e+00	2.1519e+00	2.1519e+00
5.7802e+04	2.1316e+00	2.1519e+00	2.1519e+00
5.7888e+04	2.1322e+00	2.1519e+00	2.1519e+00
5.7974e+04	2.1329e+00	2.1545e+00	2.1545e+00
5.8061e+04	2.1335e+00	2.1551e+00	2.1551e+00
5.8147e+04	2.1341e+00	2.1551e+00	2.1551e+00
5.8234e+04	2.1348e+00	2.1551e+00	2.1551e+00
5.8320e+04	2.1354e+00	2.1551e+00	2.1551e+00
5.8406e+04	2.1360e+00	2.1577e+00	2.1577e+00
5.8493e+04	2.1367e+00	2.1584e+00	2.1584e+00
5.8579e+04	2.1373e+00	2.1584e+00	2.1584e+00
5.8666e+04	2.1379e+00	2.1584e+00	2.1584e+00
5.8752e+04	2.1386e+00	2.1584e+00	2.1584e+00
5.8838e+04	2.1392e+00	2.1610e+00	2.1610e+00
5.8925e+04	2.1398e+00	2.1616e+00	2.1616e+00
5.9011e+04	2.1404e+00	2.1616e+00	2.1616e+00
5.9098e+04	2.1411e+00	2.1616e+00	2.1616e+00
5.9184e+04	2.1417e+00	2.1616e+00	2.1616e+00
5.9270e+04	2.1423e+00	2.1641e+00	2.1641e+00
5.9357e+04	2.1429e+00	2.1648e+00	2.1648e+00
5.9443e+04	2.1436e+00	2.1648e+00	2.1648e+00
5.9530e+04	2.1442e+00	2.1648e+00	2.1648e+00
5.9616e+04	2.1448e+00	2.1648e+00	2.1648e+00
5.9702e+04	2.1454e+00	2.1673e+00	2.1673e+00
5.9789e+04	2.1460e+00	2.1680e+00	2.1680e+00
5.9875e+04	2.1466e+00	2.1680e+00	2.1680e+00
5.9962e+04	2.1473e+00	2.1680e+00	2.1680e+00
6.0048e+04	2.1479e+00	2.1680e+00	2.1680e+00
6.0134e+04	2.1485e+00	2.1705e+00	2.1705e+00
6.0221e+04	2.1491e+00	2.1711e+00	2.1711e+00
6.0307e+04	2.1497e+00	2.1711e+00	2.1711e+00
6.0394e+04	2.1503e+00	2.1711e+00	2.1711e+00

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x	$A(x)$	P_{v1}	P_{v2}
6.0480e+04	2.1509e+00	2.1711e+00	2.1711e+00
6.0566e+04	2.1516e+00	2.1736e+00	2.1736e+00
6.0653e+04	2.1522e+00	2.1742e+00	2.1742e+00
6.0739e+04	2.1528e+00	2.1742e+00	2.1742e+00
6.0826e+04	2.1534e+00	2.1742e+00	2.1742e+00
6.0912e+04	2.1540e+00	2.1742e+00	2.1742e+00
6.0998e+04	2.1546e+00	2.1767e+00	2.1767e+00
6.1085e+04	2.1552e+00	2.1773e+00	2.1773e+00
6.1171e+04	2.1558e+00	2.1773e+00	2.1773e+00
6.1258e+04	2.1564e+00	2.1773e+00	2.1773e+00
6.1344e+04	2.1570e+00	2.1773e+00	2.1773e+00
6.1430e+04	2.1576e+00	2.1798e+00	2.1798e+00
6.1517e+04	2.1582e+00	2.1804e+00	2.1804e+00
6.1603e+04	2.1588e+00	2.1804e+00	2.1804e+00
6.1690e+04	2.1594e+00	2.1804e+00	2.1804e+00
6.1776e+04	2.1600e+00	2.1804e+00	2.1804e+00
6.1862e+04	2.1606e+00	2.1828e+00	2.1828e+00
6.1949e+04	2.1612e+00	2.1834e+00	2.1834e+00
6.2035e+04	2.1618e+00	2.1834e+00	2.1834e+00
6.2122e+04	2.1624e+00	2.1834e+00	2.1834e+00
6.2208e+04	2.1630e+00	2.1834e+00	2.1834e+00
6.2294e+04	2.1636e+00	2.1859e+00	2.1859e+00
6.2381e+04	2.1642e+00	2.1865e+00	2.1865e+00
6.2467e+04	2.1648e+00	2.1865e+00	2.1865e+00
6.2554e+04	2.1654e+00	2.1865e+00	2.1865e+00
6.2640e+04	2.1660e+00	2.1865e+00	2.1865e+00
6.2726e+04	2.1666e+00	2.1889e+00	2.1889e+00
6.2813e+04	2.1672e+00	2.1895e+00	2.1895e+00
6.2899e+04	2.1678e+00	2.1895e+00	2.1895e+00
6.2986e+04	2.1684e+00	2.1895e+00	2.1895e+00
6.3072e+04	2.1690e+00	2.1895e+00	2.1895e+00
6.3158e+04	2.1696e+00	2.1919e+00	2.1919e+00
6.3245e+04	2.1701e+00	2.1925e+00	2.1925e+00
6.3331e+04	2.1707e+00	2.1925e+00	2.1925e+00
6.3418e+04	2.1713e+00	2.1925e+00	2.1925e+00
6.3504e+04	2.1719e+00	2.1925e+00	2.1925e+00
6.3590e+04	2.1725e+00	2.1949e+00	2.1949e+00
6.3677e+04	2.1731e+00	2.1954e+00	2.1954e+00
6.3763e+04	2.1737e+00	2.1954e+00	2.1954e+00
6.3850e+04	2.1742e+00	2.1954e+00	2.1954e+00

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x	$A(x)$	P_{v1}	P_{v2}
6.3936e+04	2.1748e+00	2.1954e+00	2.1954e+00
6.4022e+04	2.1754e+00	2.1978e+00	2.1978e+00
6.4109e+04	2.1760e+00	2.1984e+00	2.1984e+00
6.4195e+04	2.1766e+00	2.1984e+00	2.1984e+00
6.4282e+04	2.1772e+00	2.1984e+00	2.1984e+00
6.4368e+04	2.1777e+00	2.1984e+00	2.1984e+00
6.4454e+04	2.1783e+00	2.2007e+00	2.2007e+00
6.4541e+04	2.1789e+00	2.2013e+00	2.2013e+00
6.4627e+04	2.1795e+00	2.2013e+00	2.2013e+00
6.4714e+04	2.1801e+00	2.2013e+00	2.2013e+00
6.4800e+04	2.1806e+00	2.2013e+00	2.2013e+00
6.4886e+04	2.1812e+00	2.2037e+00	2.2037e+00
6.4973e+04	2.1818e+00	2.2042e+00	2.2042e+00
6.5059e+04	2.1824e+00	2.2042e+00	2.2042e+00
6.5146e+04	2.1829e+00	2.2042e+00	2.2042e+00
6.5232e+04	2.1835e+00	2.2042e+00	2.2042e+00
6.5318e+04	2.1841e+00	2.2065e+00	2.2065e+00
6.5405e+04	2.1846e+00	2.2071e+00	2.2071e+00
6.5491e+04	2.1852e+00	2.2071e+00	2.2071e+00
6.5578e+04	2.1858e+00	2.2083e+00	2.2083e+00
6.5664e+04	2.2679e+00	2.2089e+00	2.2089e+00
6.5750e+04	2.2686e+00	2.2089e+00	2.2089e+00
6.5837e+04	2.2692e+00	2.2100e+00	2.2100e+00
6.5923e+04	2.2699e+00	2.2106e+00	2.2106e+00
6.6010e+04	2.2705e+00	2.2111e+00	2.2111e+00
6.6096e+04	2.2712e+00	2.2117e+00	2.2117e+00
6.6182e+04	2.2718e+00	2.2117e+00	2.2117e+00
6.6269e+04	2.2725e+00	2.2129e+00	2.2129e+00
6.6355e+04	2.2731e+00	2.2129e+00	2.2129e+00
6.6442e+04	2.2738e+00	2.2140e+00	2.2140e+00
6.6528e+04	2.2744e+00	2.2146e+00	2.2146e+00
6.6614e+04	2.2751e+00	2.2146e+00	2.2146e+00
6.6701e+04	2.2757e+00	2.2157e+00	2.2157e+00
6.6787e+04	2.1937e+00	2.2157e+00	2.2157e+00
6.6874e+04	2.1943e+00	2.2168e+00	2.2168e+00
6.6960e+04	2.1948e+00	2.2174e+00	2.2174e+00
6.7046e+04	2.1954e+00	2.2174e+00	2.2174e+00
6.7133e+04	2.1960e+00	2.2185e+00	2.2185e+00
6.7219e+04	2.1965e+00	2.2185e+00	2.2185e+00
6.7306e+04	2.1971e+00	2.2196e+00	2.2196e+00

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x	$A(x)$	P_{v1}	P_{v2}
6.7392e+04	2.1976e+00	2.2202e+00	2.2202e+00
6.7478e+04	2.1982e+00	2.2202e+00	2.2202e+00
6.7565e+04	2.1988e+00	2.2213e+00	2.2213e+00
6.7651e+04	2.1993e+00	2.2213e+00	2.2213e+00
6.7738e+04	2.1999e+00	2.2224e+00	2.2224e+00
6.7824e+04	2.2004e+00	2.2230e+00	2.2230e+00
6.7910e+04	2.2010e+00	2.2230e+00	2.2230e+00
6.7997e+04	2.2015e+00	2.2241e+00	2.2241e+00
6.8083e+04	2.2021e+00	2.2241e+00	2.2241e+00
6.8170e+04	2.2026e+00	2.2252e+00	2.2252e+00
6.8256e+04	2.2032e+00	2.2257e+00	2.2257e+00
6.8342e+04	2.2038e+00	2.2257e+00	2.2257e+00
6.8429e+04	2.2043e+00	2.2268e+00	2.2268e+00
6.8515e+04	2.2049e+00	2.2268e+00	2.2268e+00
6.8602e+04	2.2054e+00	2.2279e+00	2.2279e+00
6.8688e+04	2.2060e+00	2.2285e+00	2.2285e+00
6.8774e+04	2.2065e+00	2.2285e+00	2.2285e+00
6.8861e+04	2.2071e+00	2.2296e+00	2.2296e+00
6.8947e+04	2.2076e+00	2.2296e+00	2.2296e+00
6.9034e+04	2.2082e+00	2.2307e+00	2.2307e+00
6.9120e+04	2.2087e+00	2.2312e+00	2.2312e+00
6.9206e+04	2.2092e+00	2.2312e+00	2.2312e+00
6.9293e+04	2.2098e+00	2.2323e+00	2.2323e+00
6.9379e+04	2.2103e+00	2.2323e+00	2.2323e+00
6.9466e+04	2.2109e+00	2.2334e+00	2.2334e+00
6.9552e+04	2.2114e+00	2.2339e+00	2.2339e+00
6.9638e+04	2.2120e+00	2.2339e+00	2.2339e+00
6.9725e+04	2.2125e+00	2.2350e+00	2.2350e+00
6.9811e+04	2.2131e+00	2.2350e+00	2.2350e+00
6.9898e+04	2.2136e+00	2.2361e+00	2.2361e+00
6.9984e+04	2.2141e+00	2.2366e+00	2.2366e+00
7.0070e+04	2.2147e+00	2.2366e+00	2.2366e+00
7.0157e+04	2.2152e+00	2.2377e+00	2.2377e+00
7.0243e+04	2.2158e+00	2.2377e+00	2.2377e+00
7.0330e+04	2.2163e+00	2.2388e+00	2.2388e+00
7.0416e+04	2.2168e+00	2.2393e+00	2.2393e+00
7.0502e+04	2.2174e+00	2.2393e+00	2.2393e+00
7.0589e+04	2.2179e+00	2.2404e+00	2.2404e+00
7.0675e+04	2.2185e+00	2.2404e+00	2.2404e+00
7.0762e+04	2.2190e+00	2.2414e+00	2.2414e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.0848e+04	2.2195e+00	2.2420e+00	2.2420e+00
7.0934e+04	2.2201e+00	2.2420e+00	2.2420e+00
7.1021e+04	2.2206e+00	2.2430e+00	2.2430e+00
7.1107e+04	2.2211e+00	2.2430e+00	2.2430e+00
7.1194e+04	2.2217e+00	2.2441e+00	2.2441e+00
7.1280e+04	2.2222e+00	2.2446e+00	2.2446e+00
7.1366e+04	2.2227e+00	2.2446e+00	2.2446e+00
7.1453e+04	2.2233e+00	2.2457e+00	2.2457e+00
7.1539e+04	2.2238e+00	2.2457e+00	2.2457e+00
7.1626e+04	2.2243e+00	2.2467e+00	2.2467e+00
7.1712e+04	2.2249e+00	2.2473e+00	2.2473e+00
7.1798e+04	2.2254e+00	2.2473e+00	2.2473e+00
7.1885e+04	2.2259e+00	2.2483e+00	2.2483e+00
7.1971e+04	2.2265e+00	2.2483e+00	2.2483e+00
7.2058e+04	2.2270e+00	2.2494e+00	2.2494e+00
7.2144e+04	2.2275e+00	2.2499e+00	2.2499e+00
7.2230e+04	2.2280e+00	2.2499e+00	2.2499e+00
7.2317e+04	2.2286e+00	2.2509e+00	2.2509e+00
7.2403e+04	2.2291e+00	2.2509e+00	2.2509e+00
7.2490e+04	2.2296e+00	2.2520e+00	2.2520e+00
7.2576e+04	2.2302e+00	2.2525e+00	2.2525e+00
7.2662e+04	2.2307e+00	2.2525e+00	2.2525e+00
7.2749e+04	2.2312e+00	2.2535e+00	2.2535e+00
7.2835e+04	2.2317e+00	2.2535e+00	2.2535e+00
7.2922e+04	2.2323e+00	2.2545e+00	2.2545e+00
7.3008e+04	2.2328e+00	2.2551e+00	2.2551e+00
7.3094e+04	2.2333e+00	2.2551e+00	2.2551e+00
7.3181e+04	2.2338e+00	2.2561e+00	2.2561e+00
7.3267e+04	2.2343e+00	2.2561e+00	2.2561e+00
7.3354e+04	2.2349e+00	2.2571e+00	2.2571e+00
7.3440e+04	2.2354e+00	2.2576e+00	2.2576e+00
7.3526e+04	2.2359e+00	2.2576e+00	2.2576e+00
7.3613e+04	2.2364e+00	2.2587e+00	2.2587e+00
7.3699e+04	2.2370e+00	2.2587e+00	2.2587e+00
7.3786e+04	2.2375e+00	2.2597e+00	2.2597e+00
7.3872e+04	2.2380e+00	2.2602e+00	2.2602e+00
7.3958e+04	2.2385e+00	2.2602e+00	2.2602e+00
7.4045e+04	2.2390e+00	2.2612e+00	2.2612e+00
7.4131e+04	2.2395e+00	2.2612e+00	2.2612e+00
7.4218e+04	2.2401e+00	2.2622e+00	2.2622e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.4304e+04	2.2406e+00	2.2627e+00	2.2627e+00
7.4390e+04	2.2411e+00	2.2627e+00	2.2627e+00
7.4477e+04	2.2416e+00	2.2637e+00	2.2637e+00
7.4563e+04	2.2421e+00	2.2637e+00	2.2637e+00
7.4650e+04	2.2426e+00	2.2647e+00	2.2647e+00
7.4736e+04	2.2432e+00	2.2652e+00	2.2652e+00
7.4822e+04	2.2437e+00	2.2652e+00	2.2652e+00
7.4909e+04	2.2442e+00	2.2663e+00	2.2663e+00
7.4995e+04	2.2447e+00	2.2663e+00	2.2663e+00
7.5082e+04	2.2452e+00	2.2673e+00	2.2673e+00
7.5168e+04	2.2457e+00	2.2678e+00	2.2678e+00
7.5254e+04	2.2462e+00	2.2678e+00	2.2678e+00
7.5341e+04	2.2468e+00	2.2688e+00	2.2688e+00
7.5427e+04	2.2473e+00	2.2688e+00	2.2688e+00
7.5514e+04	2.2478e+00	2.2698e+00	2.2698e+00
7.5600e+04	2.2483e+00	2.2703e+00	2.2703e+00
7.5686e+04	2.2488e+00	2.2703e+00	2.2703e+00
7.5773e+04	2.2493e+00	2.2712e+00	2.2712e+00
7.5859e+04	2.2498e+00	2.2712e+00	2.2712e+00
7.5946e+04	2.2503e+00	2.2722e+00	2.2722e+00
7.6032e+04	2.2508e+00	2.2727e+00	2.2727e+00
7.6118e+04	2.2513e+00	2.2727e+00	2.2727e+00
7.6205e+04	2.2518e+00	2.2737e+00	2.2737e+00
7.6291e+04	2.2524e+00	2.2737e+00	2.2737e+00
7.6378e+04	2.2529e+00	2.2747e+00	2.2747e+00
7.6464e+04	2.2534e+00	2.2752e+00	2.2752e+00
7.6550e+04	2.2539e+00	2.2752e+00	2.2752e+00
7.6637e+04	2.2544e+00	2.2762e+00	2.2762e+00
7.6723e+04	2.2549e+00	2.2762e+00	2.2762e+00
7.6810e+04	2.2554e+00	2.2772e+00	2.2772e+00
7.6896e+04	2.2559e+00	2.2776e+00	2.2776e+00
7.6982e+04	2.2564e+00	2.2776e+00	2.2776e+00
7.7069e+04	2.2569e+00	2.2786e+00	2.2786e+00
7.7155e+04	2.2574e+00	2.2786e+00	2.2786e+00
7.7242e+04	2.2579e+00	2.2796e+00	2.2796e+00
7.7328e+04	2.2584e+00	2.2801e+00	2.2801e+00
7.7414e+04	2.2589e+00	2.2801e+00	2.2801e+00
7.7501e+04	2.2594e+00	2.2811e+00	2.2811e+00
7.7587e+04	2.2599e+00	2.2811e+00	2.2811e+00
7.7674e+04	2.2604e+00	2.2820e+00	2.2820e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.7760e+04	2.2609e+00	2.2825e+00	2.2825e+00
7.7846e+04	2.2614e+00	2.2825e+00	2.2825e+00
7.7933e+04	2.2619e+00	2.2835e+00	2.2835e+00
7.8019e+04	2.2624e+00	2.2835e+00	2.2835e+00
7.8106e+04	2.2629e+00	2.2844e+00	2.2844e+00
7.8192e+04	2.2634e+00	2.2849e+00	2.2849e+00
7.8278e+04	2.2639e+00	2.2849e+00	2.2849e+00
7.8365e+04	2.2644e+00	2.2859e+00	2.2859e+00
7.8451e+04	2.2649e+00	2.2859e+00	2.2859e+00
7.8538e+04	2.2654e+00	2.2868e+00	2.2868e+00
7.8624e+04	2.2659e+00	2.2873e+00	2.2873e+00
7.8710e+04	2.2664e+00	2.2873e+00	2.2873e+00
7.8797e+04	2.2669e+00	2.2883e+00	2.2883e+00
7.8883e+04	2.2674e+00	2.2883e+00	2.2883e+00
7.8970e+04	2.2678e+00	2.2892e+00	2.2892e+00
7.9056e+04	2.2683e+00	2.2897e+00	2.2897e+00
7.9142e+04	2.2688e+00	2.2897e+00	2.2897e+00
7.9229e+04	2.2693e+00	2.2906e+00	2.2906e+00
7.9315e+04	2.2698e+00	2.2906e+00	2.2906e+00
7.9402e+04	2.2703e+00	2.2916e+00	2.2916e+00
7.9488e+04	2.2708e+00	2.2921e+00	2.2921e+00
7.9574e+04	2.2713e+00	2.2921e+00	2.2921e+00
7.9661e+04	2.2718e+00	2.2930e+00	2.2930e+00
7.9747e+04	2.2723e+00	2.2930e+00	2.2930e+00
7.9834e+04	2.2728e+00	2.2939e+00	2.2939e+00
7.9920e+04	2.2733e+00	2.2944e+00	2.2944e+00
8.0006e+04	2.2737e+00	2.2944e+00	2.2944e+00
8.0093e+04	2.2742e+00	2.2954e+00	2.2954e+00
8.0179e+04	2.2747e+00	2.2954e+00	2.2954e+00
8.0266e+04	2.2752e+00	2.2963e+00	2.2963e+00
8.0352e+04	2.2757e+00	2.2968e+00	2.2968e+00
8.0438e+04	2.2762e+00	2.2968e+00	2.2968e+00
8.0525e+04	2.2767e+00	2.2977e+00	2.2977e+00
8.0611e+04	2.2772e+00	2.2977e+00	2.2977e+00
8.0698e+04	2.2776e+00	2.2986e+00	2.2986e+00
8.0784e+04	2.2781e+00	2.2991e+00	2.2991e+00
8.0870e+04	2.2786e+00	2.2991e+00	2.2991e+00
8.0957e+04	2.2791e+00	2.3000e+00	2.3000e+00
8.1043e+04	2.2796e+00	2.3000e+00	2.3000e+00
8.1130e+04	2.2801e+00	2.3009e+00	2.3009e+00

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x	$A(x)$	P_{v1}	P_{v2}
8.1216e+04	2.2805e+00	2.3014e+00	2.3014e+00
8.1302e+04	2.2810e+00	2.3014e+00	2.3014e+00
8.1389e+04	2.2815e+00	2.3023e+00	2.3023e+00
8.1475e+04	2.2820e+00	2.3023e+00	2.3023e+00
8.1562e+04	2.2825e+00	2.3032e+00	2.3032e+00
8.1648e+04	2.2830e+00	2.3037e+00	2.3037e+00
8.1734e+04	2.2834e+00	2.3037e+00	2.3037e+00
8.1821e+04	2.2839e+00	2.3046e+00	2.3046e+00
8.1907e+04	2.2844e+00	2.3046e+00	2.3046e+00
8.1994e+04	2.2849e+00	2.3055e+00	2.3055e+00
8.2080e+04	2.2854e+00	2.3060e+00	2.3060e+00
8.2166e+04	2.2858e+00	2.3060e+00	2.3060e+00
8.2253e+04	2.2863e+00	2.3069e+00	2.3069e+00
8.2339e+04	2.2868e+00	2.3069e+00	2.3069e+00
8.2426e+04	2.2873e+00	2.3078e+00	2.3078e+00
8.2512e+04	2.2878e+00	2.3083e+00	2.3083e+00
8.2598e+04	2.2882e+00	2.3083e+00	2.3083e+00
8.2685e+04	2.2887e+00	2.3092e+00	2.3092e+00
8.2771e+04	2.2892e+00	2.3092e+00	2.3092e+00
8.2858e+04	2.2897e+00	2.3101e+00	2.3101e+00
8.2944e+04	2.2901e+00	2.3105e+00	2.3105e+00
8.3030e+04	2.2906e+00	2.3105e+00	2.3105e+00
8.3117e+04	2.2911e+00	2.3114e+00	2.3114e+00
8.3203e+04	2.2916e+00	2.3114e+00	2.3114e+00
8.3290e+04	2.2920e+00	2.3123e+00	2.3123e+00
8.3376e+04	2.2925e+00	2.3128e+00	2.3128e+00
8.3462e+04	2.2930e+00	2.3128e+00	2.3128e+00
8.3549e+04	2.2935e+00	2.3137e+00	2.3137e+00
8.3635e+04	2.2939e+00	2.3137e+00	2.3137e+00
8.3722e+04	2.2944e+00	2.3146e+00	2.3146e+00
8.3808e+04	2.2949e+00	2.3150e+00	2.3150e+00
8.3894e+04	2.2953e+00	2.3150e+00	2.3150e+00
8.3981e+04	2.2958e+00	2.3159e+00	2.3159e+00
8.4067e+04	2.2963e+00	2.3159e+00	2.3159e+00
8.4154e+04	2.2968e+00	2.3168e+00	2.3168e+00
8.4240e+04	2.2972e+00	2.3173e+00	2.3173e+00
8.4326e+04	2.2977e+00	2.3173e+00	2.3173e+00
8.4413e+04	2.2982e+00	2.3182e+00	2.3182e+00
8.4499e+04	2.2986e+00	2.3182e+00	2.3182e+00
8.4586e+04	2.2991e+00	2.3190e+00	2.3190e+00

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x	$A(x)$	P_{v1}	P_{v2}
8.4672e+04	2.2996e+00	2.3195e+00	2.3195e+00
8.4758e+04	2.3000e+00	2.3195e+00	2.3195e+00
8.4845e+04	2.3005e+00	2.3204e+00	2.3204e+00
8.4931e+04	2.3010e+00	2.3204e+00	2.3204e+00
8.5018e+04	2.3015e+00	2.3213e+00	2.3213e+00
8.5104e+04	2.3019e+00	2.3217e+00	2.3217e+00
8.5190e+04	2.3024e+00	2.3217e+00	2.3217e+00
8.5277e+04	2.3029e+00	2.3226e+00	2.3226e+00
8.5363e+04	2.3033e+00	2.3226e+00	2.3226e+00
8.5450e+04	2.3038e+00	2.3234e+00	2.3234e+00
8.5536e+04	2.3043e+00	2.3239e+00	2.3239e+00
8.5622e+04	2.3047e+00	2.3239e+00	2.3239e+00
8.5709e+04	2.3052e+00	2.3248e+00	2.3248e+00
8.5795e+04	2.3056e+00	2.3248e+00	2.3248e+00
8.5882e+04	2.3061e+00	2.3256e+00	2.3256e+00
8.5968e+04	2.3066e+00	2.3261e+00	2.3261e+00
8.6054e+04	2.3070e+00	2.3261e+00	2.3261e+00
8.6141e+04	2.3075e+00	2.3269e+00	2.3269e+00
8.6227e+04	2.3080e+00	2.3269e+00	2.3269e+00
8.6314e+04	2.3084e+00	2.3278e+00	2.3278e+00
8.6400e+04	2.3089e+00	2.3282e+00	2.3282e+00

Table B.4.36: Output for Problem 4.6-X55-Y55

x	$A(x)$	P_{v1}	P_{v2}
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
8.6400e+01	3.1307e-16	0.0000e+00	0.0000e+00
1.7280e+02	4.0014e-09	6.4419e-06	6.4419e-06
2.5920e+02	1.0953e-06	6.4419e-06	6.4419e-06
3.4560e+02	1.9502e-05	1.4336e-04	1.4336e-04
4.3200e+02	1.1448e-04	3.6812e-04	3.6812e-04
5.1840e+02	3.8275e-04	3.6812e-04	3.6812e-04
6.0480e+02	9.2355e-04	3.6812e-04	3.6812e-04
6.9120e+02	1.8126e-03	2.3520e-03	2.3520e-03
7.7760e+02	3.0943e-03	3.6018e-03	3.6018e-03
8.6400e+02	4.7849e-03	5.1893e-03	5.1893e-03
9.5040e+02	6.8798e-03	5.1893e-03	5.1893e-03
1.0368e+03	9.3604e-03	5.1893e-03	5.1893e-03
1.1232e+03	1.2200e-02	1.1990e-02	1.1990e-02

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
1.2096e+03	1.5366e-02	1.1990e-02	1.1990e-02
1.2960e+03	1.8827e-02	1.8092e-02	1.8092e-02
1.3824e+03	2.2551e-02	2.1550e-02	2.1550e-02
1.4688e+03	2.6505e-02	2.1550e-02	2.1550e-02
1.5552e+03	3.0663e-02	2.9159e-02	2.9159e-02
1.6416e+03	3.4996e-02	2.9159e-02	2.9159e-02
1.7280e+03	3.9481e-02	3.7532e-02	3.7532e-02
1.8144e+03	4.4096e-02	4.1951e-02	4.1951e-02
1.9008e+03	4.8821e-02	4.1951e-02	4.1951e-02
1.9872e+03	5.3639e-02	5.1156e-02	5.1156e-02
2.0736e+03	5.8534e-02	5.1156e-02	5.1156e-02
2.1600e+03	6.3493e-02	6.0741e-02	6.0741e-02
2.2464e+03	6.8503e-02	6.5640e-02	6.5640e-02
2.3328e+03	7.3553e-02	7.0595e-02	7.0595e-02
2.4192e+03	7.8634e-02	7.0595e-02	7.0595e-02
2.5056e+03	8.3737e-02	7.0595e-02	7.0595e-02
2.5920e+03	8.8855e-02	8.5687e-02	8.5687e-02
2.6784e+03	9.3980e-02	9.0766e-02	9.0766e-02
2.7648e+03	9.9108e-02	9.5858e-02	9.5858e-02
2.8512e+03	1.0423e-01	9.5858e-02	9.5858e-02
2.9376e+03	1.0935e-01	9.5858e-02	9.5858e-02
3.0240e+03	1.1446e-01	1.1115e-01	1.1115e-01
3.1104e+03	1.1955e-01	1.1623e-01	1.1623e-01
3.1968e+03	1.2462e-01	1.2131e-01	1.2131e-01
3.2832e+03	1.2967e-01	1.2131e-01	1.2131e-01
3.3696e+03	1.3470e-01	1.2131e-01	1.2131e-01
3.4560e+03	1.3971e-01	1.3643e-01	1.3643e-01
3.5424e+03	1.4468e-01	1.4143e-01	1.4143e-01
3.6288e+03	1.4963e-01	1.4640e-01	1.4640e-01
3.7152e+03	1.5455e-01	1.4640e-01	1.4640e-01
3.8016e+03	1.5944e-01	1.4640e-01	1.4640e-01
3.8880e+03	1.6430e-01	1.4640e-01	1.4640e-01
3.9744e+03	1.6912e-01	1.6601e-01	1.6601e-01
4.0608e+03	1.7391e-01	1.7084e-01	1.7084e-01
4.1472e+03	1.7867e-01	1.7084e-01	1.7084e-01
4.2336e+03	1.8339e-01	1.8041e-01	1.8041e-01
4.3200e+03	1.8808e-01	1.8514e-01	1.8514e-01
4.4064e+03	1.9274e-01	1.8514e-01	1.8514e-01
4.4928e+03	1.9735e-01	1.9450e-01	1.9450e-01
4.5792e+03	2.0194e-01	1.9450e-01	1.9450e-01

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x	$A(x)$	P_{v1}	P_{v2}
4.6656e+03	2.0649e-01	2.0373e-01	2.0373e-01
4.7520e+03	2.1100e-01	2.0829e-01	2.0829e-01
4.8384e+03	2.1548e-01	2.0829e-01	2.0829e-01
4.9248e+03	2.1992e-01	2.1731e-01	2.1731e-01
5.0112e+03	2.2433e-01	2.1731e-01	2.1731e-01
5.0976e+03	2.2871e-01	2.2619e-01	2.2619e-01
5.1840e+03	2.3305e-01	2.3058e-01	2.3058e-01
5.2704e+03	2.3735e-01	2.3058e-01	2.3058e-01
5.3568e+03	2.4162e-01	2.3926e-01	2.3926e-01
5.4432e+03	2.4586e-01	2.3926e-01	2.3926e-01
5.5296e+03	2.5006e-01	2.4780e-01	2.4780e-01
5.6160e+03	2.5423e-01	2.5202e-01	2.5202e-01
5.7024e+03	2.5837e-01	2.5202e-01	2.5202e-01
5.7888e+03	2.6248e-01	2.6036e-01	2.6036e-01
5.8752e+03	2.6655e-01	2.6036e-01	2.6036e-01
5.9616e+03	2.7059e-01	2.6857e-01	2.6857e-01
6.0480e+03	2.7460e-01	2.7263e-01	2.7263e-01
6.1344e+03	2.7857e-01	2.7263e-01	2.7263e-01
6.2208e+03	2.8252e-01	2.8065e-01	2.8065e-01
6.3072e+03	2.8643e-01	2.8065e-01	2.8065e-01
6.3936e+03	2.9032e-01	2.8855e-01	2.8855e-01
6.4800e+03	2.9417e-01	2.9245e-01	2.9245e-01
6.5664e+03	2.9800e-01	2.9245e-01	2.9245e-01
6.6528e+03	3.0179e-01	3.0016e-01	3.0016e-01
6.7392e+03	3.0556e-01	3.0016e-01	3.0016e-01
6.8256e+03	3.0929e-01	3.0776e-01	3.0776e-01
6.9120e+03	3.1300e-01	3.1151e-01	3.1151e-01
6.9984e+03	3.1668e-01	3.1151e-01	3.1151e-01
7.0848e+03	3.2034e-01	3.1894e-01	3.1894e-01
7.1712e+03	3.2396e-01	3.1894e-01	3.1894e-01
7.2576e+03	3.2756e-01	3.2625e-01	3.2625e-01
7.3440e+03	3.3113e-01	3.2625e-01	3.2625e-01
7.4304e+03	3.3468e-01	3.2625e-01	3.2625e-01
7.5168e+03	3.3820e-01	3.3702e-01	3.3702e-01
7.6032e+03	3.4169e-01	3.3702e-01	3.3702e-01
7.6896e+03	3.4516e-01	3.4407e-01	3.4407e-01
7.7760e+03	3.4860e-01	3.4407e-01	3.4407e-01
7.8624e+03	3.5202e-01	3.4407e-01	3.4407e-01
7.9488e+03	3.5542e-01	3.5445e-01	3.5445e-01
8.0352e+03	3.5878e-01	3.5445e-01	3.5445e-01

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x	$A(x)$	P_{v1}	P_{v2}
8.1216e+03	3.6213e-01	3.6125e-01	3.6125e-01
8.2080e+03	3.6545e-01	3.6461e-01	3.6461e-01
8.2944e+03	3.6875e-01	3.6461e-01	3.6461e-01
8.3808e+03	3.7203e-01	3.6461e-01	3.6461e-01
8.4672e+03	3.7528e-01	3.7455e-01	3.7455e-01
8.5536e+03	3.7851e-01	3.7782e-01	3.7782e-01
8.6400e+03	3.8172e-01	3.8107e-01	3.8107e-01
8.7264e+03	3.8490e-01	3.8107e-01	3.8107e-01
8.8128e+03	3.8807e-01	3.8107e-01	3.8107e-01
8.8992e+03	3.9121e-01	3.9068e-01	3.9068e-01
8.9856e+03	3.9434e-01	3.9383e-01	3.9383e-01
9.0720e+03	3.9744e-01	3.9697e-01	3.9697e-01
9.1584e+03	4.0052e-01	3.9697e-01	3.9697e-01
9.2448e+03	4.0358e-01	3.9697e-01	3.9697e-01
9.3312e+03	4.0662e-01	4.0626e-01	4.0626e-01
9.4176e+03	4.0964e-01	4.0931e-01	4.0931e-01
9.5040e+03	4.1264e-01	4.1235e-01	4.1235e-01
9.5904e+03	4.1562e-01	4.1235e-01	4.1235e-01
9.6768e+03	4.1858e-01	4.1235e-01	4.1235e-01
9.7632e+03	4.2152e-01	4.2133e-01	4.2133e-01
9.8496e+03	4.2445e-01	4.2429e-01	4.2429e-01
9.9360e+03	4.2735e-01	4.2723e-01	4.2723e-01
1.0022e+04	4.3024e-01	4.2723e-01	4.2723e-01
1.0109e+04	4.3311e-01	4.2723e-01	4.2723e-01
1.0195e+04	4.3596e-01	4.3593e-01	4.3593e-01
1.0282e+04	4.3879e-01	4.3880e-01	4.3880e-01
1.0368e+04	4.4161e-01	4.4165e-01	4.4165e-01
1.0454e+04	4.4441e-01	4.4165e-01	4.4165e-01
1.0541e+04	4.4719e-01	4.4165e-01	4.4165e-01
1.0627e+04	4.4996e-01	4.5008e-01	4.5008e-01
1.0714e+04	4.5270e-01	4.5286e-01	4.5286e-01
1.0800e+04	4.5544e-01	4.5562e-01	4.5562e-01
1.0886e+04	4.5815e-01	4.5562e-01	4.5562e-01
1.0973e+04	4.6085e-01	4.5562e-01	4.5562e-01
1.1059e+04	4.6353e-01	4.6380e-01	4.6380e-01
1.1146e+04	4.6620e-01	4.6650e-01	4.6650e-01
1.1232e+04	4.6885e-01	4.6918e-01	4.6918e-01
1.1318e+04	4.7149e-01	4.6918e-01	4.6918e-01
1.1405e+04	4.7411e-01	4.6918e-01	4.6918e-01
1.1491e+04	4.7672e-01	4.7713e-01	4.7713e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.1578e+04	4.7931e-01	4.7974e-01	4.7974e-01
1.1664e+04	4.8188e-01	4.8235e-01	4.8235e-01
1.1750e+04	4.8445e-01	4.8235e-01	4.8235e-01
1.1837e+04	4.8699e-01	4.8235e-01	4.8235e-01
1.1923e+04	4.8953e-01	4.9007e-01	4.9007e-01
1.2010e+04	4.9205e-01	4.9261e-01	4.9261e-01
1.2096e+04	4.9455e-01	4.9514e-01	4.9514e-01
1.2182e+04	4.9704e-01	4.9514e-01	4.9514e-01
1.2269e+04	4.9952e-01	4.9514e-01	4.9514e-01
1.2355e+04	5.0198e-01	5.0265e-01	5.0265e-01
1.2442e+04	5.0443e-01	5.0512e-01	5.0512e-01
1.2528e+04	5.0687e-01	5.0759e-01	5.0759e-01
1.2614e+04	5.0930e-01	5.0759e-01	5.0759e-01
1.2701e+04	5.1171e-01	5.0759e-01	5.0759e-01
1.2787e+04	5.1410e-01	5.1489e-01	5.1489e-01
1.2874e+04	5.1649e-01	5.1730e-01	5.1730e-01
1.2960e+04	5.1886e-01	5.1969e-01	5.1969e-01
1.3046e+04	5.2122e-01	5.1969e-01	5.1969e-01
1.3133e+04	5.2357e-01	5.1969e-01	5.1969e-01
1.3219e+04	5.2591e-01	5.2681e-01	5.2681e-01
1.3306e+04	5.2823e-01	5.2915e-01	5.2915e-01
1.3392e+04	5.3054e-01	5.3149e-01	5.3149e-01
1.3478e+04	5.3284e-01	5.3149e-01	5.3149e-01
1.3565e+04	5.3513e-01	5.3149e-01	5.3149e-01
1.3651e+04	5.3741e-01	5.3841e-01	5.3841e-01
1.3738e+04	5.3967e-01	5.4070e-01	5.4070e-01
1.3824e+04	5.4193e-01	5.4297e-01	5.4297e-01
1.3910e+04	5.4417e-01	5.4297e-01	5.4297e-01
1.3997e+04	5.4640e-01	5.4297e-01	5.4297e-01
1.4083e+04	5.4862e-01	5.4973e-01	5.4973e-01
1.4170e+04	5.5083e-01	5.5196e-01	5.5196e-01
1.4256e+04	5.5303e-01	5.5196e-01	5.5196e-01
1.4342e+04	5.5521e-01	5.5196e-01	5.5196e-01
1.4429e+04	5.5739e-01	5.5196e-01	5.5196e-01
1.4515e+04	5.5956e-01	5.6077e-01	5.6077e-01
1.4602e+04	5.6171e-01	5.6294e-01	5.6294e-01
1.4688e+04	5.6386e-01	5.6294e-01	5.6294e-01
1.4774e+04	5.6599e-01	5.6294e-01	5.6294e-01
1.4861e+04	5.6812e-01	5.6294e-01	5.6294e-01
1.4947e+04	5.7023e-01	5.7154e-01	5.7154e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.5034e+04	5.7234e-01	5.7366e-01	5.7366e-01
1.5120e+04	5.7443e-01	5.7366e-01	5.7366e-01
1.5206e+04	5.7652e-01	5.7366e-01	5.7366e-01
1.5293e+04	5.7859e-01	5.7366e-01	5.7366e-01
1.5379e+04	5.8066e-01	5.8205e-01	5.8205e-01
1.5466e+04	5.8272e-01	5.8413e-01	5.8413e-01
1.5552e+04	5.8476e-01	5.8413e-01	5.8413e-01
1.5638e+04	5.8680e-01	5.8413e-01	5.8413e-01
1.5725e+04	5.8883e-01	5.8413e-01	5.8413e-01
1.5811e+04	5.9085e-01	5.9233e-01	5.9233e-01
1.5898e+04	5.9286e-01	5.9435e-01	5.9435e-01
1.5984e+04	5.9486e-01	5.9435e-01	5.9435e-01
1.6070e+04	5.9685e-01	5.9435e-01	5.9435e-01
1.6157e+04	5.9883e-01	5.9435e-01	5.9435e-01
1.6243e+04	6.0081e-01	6.0237e-01	6.0237e-01
1.6330e+04	6.0277e-01	6.0435e-01	6.0435e-01
1.6416e+04	6.0473e-01	6.0633e-01	6.0633e-01
1.6502e+04	6.0668e-01	6.0829e-01	6.0829e-01
1.6589e+04	6.0862e-01	6.0829e-01	6.0829e-01
1.6675e+04	6.1055e-01	6.1219e-01	6.1219e-01
1.6762e+04	6.1247e-01	6.1219e-01	6.1219e-01
1.6848e+04	6.1439e-01	6.1606e-01	6.1606e-01
1.6934e+04	6.1629e-01	6.1798e-01	6.1798e-01
1.7021e+04	6.1819e-01	6.1798e-01	6.1798e-01
1.7107e+04	6.2008e-01	6.2180e-01	6.2180e-01
1.7194e+04	6.2197e-01	6.2180e-01	6.2180e-01
1.7280e+04	6.2384e-01	6.2559e-01	6.2559e-01
1.7366e+04	6.2571e-01	6.2747e-01	6.2747e-01
1.7453e+04	6.2756e-01	6.2747e-01	6.2747e-01
1.7539e+04	6.2942e-01	6.3121e-01	6.3121e-01
1.7626e+04	6.3126e-01	6.3121e-01	6.3121e-01
1.7712e+04	6.3309e-01	6.3491e-01	6.3491e-01
1.7798e+04	6.3492e-01	6.3676e-01	6.3676e-01
1.7885e+04	6.3674e-01	6.3676e-01	6.3676e-01
1.7971e+04	6.3856e-01	6.4042e-01	6.4042e-01
1.8058e+04	6.4036e-01	6.4042e-01	6.4042e-01
1.8144e+04	6.4216e-01	6.4405e-01	6.4405e-01
1.8230e+04	6.4395e-01	6.4585e-01	6.4585e-01
1.8317e+04	6.4573e-01	6.4585e-01	6.4585e-01
1.8403e+04	6.4751e-01	6.4944e-01	6.4944e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.8490e+04	6.4928e-01	6.4944e-01	6.4944e-01
1.8576e+04	6.5104e-01	6.5300e-01	6.5300e-01
1.8662e+04	6.5280e-01	6.5477e-01	6.5477e-01
1.8749e+04	6.5455e-01	6.5477e-01	6.5477e-01
1.8835e+04	6.5629e-01	6.5828e-01	6.5828e-01
1.8922e+04	6.5802e-01	6.5828e-01	6.5828e-01
1.9008e+04	6.5975e-01	6.6177e-01	6.6177e-01
1.9094e+04	6.6147e-01	6.6351e-01	6.6351e-01
1.9181e+04	6.6319e-01	6.6351e-01	6.6351e-01
1.9267e+04	6.6490e-01	6.6695e-01	6.6695e-01
1.9354e+04	6.6660e-01	6.6695e-01	6.6695e-01
1.9440e+04	6.6829e-01	6.7038e-01	6.7038e-01
1.9526e+04	6.6998e-01	6.7208e-01	6.7208e-01
1.9613e+04	6.7166e-01	6.7208e-01	6.7208e-01
1.9699e+04	6.7334e-01	6.7546e-01	6.7546e-01
1.9786e+04	6.7501e-01	6.7546e-01	6.7546e-01
1.9872e+04	6.7667e-01	6.7881e-01	6.7881e-01
1.9958e+04	6.7833e-01	6.8048e-01	6.8048e-01
2.0045e+04	6.7998e-01	6.8048e-01	6.8048e-01
2.0131e+04	6.8162e-01	6.8380e-01	6.8380e-01
2.0218e+04	6.8326e-01	6.8380e-01	6.8380e-01
2.0304e+04	6.8489e-01	6.8710e-01	6.8710e-01
2.0390e+04	6.8652e-01	6.8873e-01	6.8873e-01
2.0477e+04	6.8814e-01	6.8873e-01	6.8873e-01
2.0563e+04	6.8975e-01	6.9199e-01	6.9199e-01
2.0650e+04	6.9136e-01	6.9199e-01	6.9199e-01
2.0736e+04	6.9297e-01	6.9522e-01	6.9522e-01
2.0822e+04	6.9456e-01	6.9683e-01	6.9683e-01
2.0909e+04	6.9615e-01	6.9683e-01	6.9683e-01
2.0995e+04	6.9774e-01	7.0003e-01	7.0003e-01
2.1082e+04	6.9932e-01	7.0003e-01	7.0003e-01
2.1168e+04	7.0089e-01	7.0321e-01	7.0321e-01
2.1254e+04	7.0246e-01	7.0479e-01	7.0479e-01
2.1341e+04	7.0402e-01	7.0479e-01	7.0479e-01
2.1427e+04	7.0558e-01	7.0793e-01	7.0793e-01
2.1514e+04	7.0713e-01	7.0793e-01	7.0793e-01
2.1600e+04	7.0868e-01	7.1105e-01	7.1105e-01
2.1686e+04	7.1022e-01	7.1260e-01	7.1260e-01
2.1773e+04	7.1176e-01	7.1260e-01	7.1260e-01
2.1859e+04	7.1329e-01	7.1568e-01	7.1568e-01

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x	$A(x)$	P_{v1}	P_{v2}
2.1946e+04	7.1481e-01	7.1568e-01	7.1568e-01
2.2032e+04	7.1633e-01	7.1875e-01	7.1875e-01
2.2118e+04	7.1785e-01	7.2027e-01	7.2027e-01
2.2205e+04	7.1936e-01	7.2027e-01	7.2027e-01
2.2291e+04	7.2086e-01	7.2331e-01	7.2331e-01
2.2378e+04	7.2243e-01	7.2331e-01	7.2331e-01
2.2464e+04	7.2393e-01	7.2632e-01	7.2632e-01
2.2550e+04	7.2542e-01	7.2782e-01	7.2782e-01
2.2637e+04	7.2691e-01	7.2782e-01	7.2782e-01
2.2723e+04	7.2831e-01	7.3080e-01	7.3080e-01
2.2810e+04	7.2978e-01	7.3080e-01	7.3080e-01
2.2896e+04	7.3125e-01	7.3376e-01	7.3376e-01
2.2982e+04	7.3271e-01	7.3524e-01	7.3524e-01
2.3069e+04	7.3417e-01	7.3524e-01	7.3524e-01
2.3155e+04	7.3563e-01	7.3817e-01	7.3817e-01
2.3242e+04	7.3708e-01	7.3817e-01	7.3817e-01
2.3328e+04	7.3852e-01	7.4108e-01	7.4108e-01
2.3414e+04	7.3996e-01	7.4253e-01	7.4253e-01
2.3501e+04	7.4140e-01	7.4253e-01	7.4253e-01
2.3587e+04	7.4283e-01	7.4542e-01	7.4542e-01
2.3674e+04	7.4426e-01	7.4542e-01	7.4542e-01
2.3760e+04	7.4568e-01	7.4829e-01	7.4829e-01
2.3846e+04	7.4710e-01	7.4971e-01	7.4971e-01
2.3933e+04	7.4851e-01	7.4971e-01	7.4971e-01
2.4019e+04	7.4992e-01	7.5255e-01	7.5255e-01
2.4106e+04	7.5132e-01	7.5255e-01	7.5255e-01
2.4192e+04	7.5272e-01	7.5537e-01	7.5537e-01
2.4278e+04	7.5412e-01	7.5677e-01	7.5677e-01
2.4365e+04	7.5551e-01	7.5677e-01	7.5677e-01
2.4451e+04	7.5689e-01	7.5957e-01	7.5957e-01
2.4538e+04	7.5827e-01	7.5957e-01	7.5957e-01
2.4624e+04	7.5965e-01	7.6234e-01	7.6234e-01
2.4710e+04	7.6102e-01	7.6372e-01	7.6372e-01
2.4797e+04	7.6239e-01	7.6372e-01	7.6372e-01
2.4883e+04	7.6376e-01	7.6647e-01	7.6647e-01
2.4970e+04	7.6512e-01	7.6647e-01	7.6647e-01
2.5056e+04	7.6647e-01	7.6921e-01	7.6921e-01
2.5142e+04	7.6783e-01	7.7057e-01	7.7057e-01
2.5229e+04	7.6917e-01	7.7057e-01	7.7057e-01
2.5315e+04	7.7052e-01	7.7328e-01	7.7328e-01

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x	$A(x)$	P_{v1}	P_{v2}
2.5402e+04	7.7186e-01	7.7328e-01	7.7328e-01
2.5488e+04	7.7319e-01	7.7597e-01	7.7597e-01
2.5574e+04	7.7452e-01	7.7731e-01	7.7731e-01
2.5661e+04	7.7585e-01	7.7731e-01	7.7731e-01
2.5747e+04	7.7718e-01	7.7997e-01	7.7997e-01
2.5834e+04	7.7849e-01	7.7997e-01	7.7997e-01
2.5920e+04	7.7981e-01	7.8262e-01	7.8262e-01
2.6006e+04	7.8112e-01	7.8394e-01	7.8394e-01
2.6093e+04	7.8243e-01	7.8394e-01	7.8394e-01
2.6179e+04	7.8373e-01	7.8657e-01	7.8657e-01
2.6266e+04	7.8503e-01	7.8657e-01	7.8657e-01
2.6352e+04	7.8633e-01	7.8918e-01	7.8918e-01
2.6438e+04	7.8762e-01	7.9048e-01	7.9048e-01
2.6525e+04	7.8891e-01	7.9048e-01	7.9048e-01
2.6611e+04	7.9020e-01	7.9307e-01	7.9307e-01
2.6698e+04	7.9148e-01	7.9307e-01	7.9307e-01
2.6784e+04	7.9275e-01	7.9564e-01	7.9564e-01
2.6870e+04	7.9403e-01	7.9692e-01	7.9692e-01
2.6957e+04	7.9530e-01	7.9692e-01	7.9692e-01
2.7043e+04	7.9656e-01	7.9947e-01	7.9947e-01
2.7130e+04	7.9783e-01	7.9947e-01	7.9947e-01
2.7216e+04	7.9909e-01	8.0201e-01	8.0201e-01
2.7302e+04	8.0034e-01	8.0327e-01	8.0327e-01
2.7389e+04	8.0159e-01	8.0327e-01	8.0327e-01
2.7475e+04	8.0284e-01	8.0579e-01	8.0579e-01
2.7562e+04	8.0409e-01	8.0579e-01	8.0579e-01
2.7648e+04	8.0533e-01	8.0829e-01	8.0829e-01
2.7734e+04	8.0657e-01	8.0953e-01	8.0953e-01
2.7821e+04	8.0780e-01	8.0953e-01	8.0953e-01
2.7907e+04	8.0903e-01	8.1201e-01	8.1201e-01
2.7994e+04	8.1026e-01	8.1201e-01	8.1201e-01
2.8080e+04	8.1148e-01	8.1201e-01	8.1201e-01
2.8166e+04	8.1270e-01	8.1570e-01	8.1570e-01
2.8253e+04	8.1392e-01	8.1570e-01	8.1570e-01
2.8339e+04	8.1513e-01	8.1815e-01	8.1815e-01
2.8426e+04	8.1635e-01	8.1815e-01	8.1815e-01
2.8512e+04	8.1755e-01	8.1815e-01	8.1815e-01
2.8598e+04	8.1876e-01	8.2179e-01	8.2179e-01
2.8685e+04	8.1996e-01	8.2179e-01	8.2179e-01
2.8771e+04	8.2115e-01	8.2420e-01	8.2420e-01

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x	$A(x)$	P_{v1}	P_{v2}
2.8858e+04	8.2235e-01	8.2420e-01	8.2420e-01
2.8944e+04	8.2354e-01	8.2420e-01	8.2420e-01
2.9030e+04	8.2473e-01	8.2779e-01	8.2779e-01
2.9117e+04	8.2591e-01	8.2779e-01	8.2779e-01
2.9203e+04	8.2709e-01	8.3017e-01	8.3017e-01
2.9290e+04	8.2827e-01	8.3017e-01	8.3017e-01
2.9376e+04	8.2945e-01	8.3017e-01	8.3017e-01
2.9462e+04	8.3064e-01	8.3372e-01	8.3372e-01
2.9549e+04	8.3181e-01	8.3372e-01	8.3372e-01
2.9635e+04	8.3297e-01	8.3606e-01	8.3606e-01
2.9722e+04	8.3414e-01	8.3606e-01	8.3606e-01
2.9808e+04	8.3530e-01	8.3606e-01	8.3606e-01
2.9894e+04	8.3645e-01	8.3956e-01	8.3956e-01
2.9981e+04	8.3761e-01	8.3956e-01	8.3956e-01
3.0067e+04	8.3876e-01	8.4187e-01	8.4187e-01
3.0154e+04	8.3991e-01	8.4187e-01	8.4187e-01
3.0240e+04	8.4105e-01	8.4187e-01	8.4187e-01
3.0326e+04	8.4219e-01	8.4533e-01	8.4533e-01
3.0413e+04	8.4333e-01	8.4533e-01	8.4533e-01
3.0499e+04	8.4447e-01	8.4761e-01	8.4761e-01
3.0586e+04	8.4560e-01	8.4761e-01	8.4761e-01
3.0672e+04	8.4673e-01	8.4761e-01	8.4761e-01
3.0758e+04	8.4786e-01	8.5102e-01	8.5102e-01
3.0845e+04	8.4898e-01	8.5102e-01	8.5102e-01
3.0931e+04	8.5010e-01	8.5327e-01	8.5327e-01
3.1018e+04	8.5122e-01	8.5327e-01	8.5327e-01
3.1104e+04	8.5234e-01	8.5327e-01	8.5327e-01
3.1190e+04	8.5345e-01	8.5664e-01	8.5664e-01
3.1277e+04	8.5456e-01	8.5664e-01	8.5664e-01
3.1363e+04	8.5567e-01	8.5887e-01	8.5887e-01
3.1450e+04	8.5677e-01	8.5887e-01	8.5887e-01
3.1536e+04	8.5787e-01	8.5887e-01	8.5887e-01
3.1622e+04	8.5897e-01	8.6219e-01	8.6219e-01
3.1709e+04	8.6007e-01	8.6219e-01	8.6219e-01
3.1795e+04	8.6116e-01	8.6439e-01	8.6439e-01
3.1882e+04	8.6225e-01	8.6439e-01	8.6439e-01
3.1968e+04	8.6334e-01	8.6439e-01	8.6439e-01
3.2054e+04	8.6442e-01	8.6767e-01	8.6767e-01
3.2141e+04	8.6551e-01	8.6767e-01	8.6767e-01
3.2227e+04	8.6659e-01	8.6984e-01	8.6984e-01

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x	$A(x)$	P_{v1}	P_{v2}
3.2314e+04	8.6766e-01	8.6984e-01	8.6984e-01
3.2400e+04	8.6874e-01	8.6984e-01	8.6984e-01
3.2486e+04	8.6981e-01	8.7308e-01	8.7308e-01
3.2573e+04	8.7088e-01	8.7308e-01	8.7308e-01
3.2659e+04	8.7195e-01	8.7522e-01	8.7522e-01
3.2746e+04	8.7301e-01	8.7522e-01	8.7522e-01
3.2832e+04	8.7407e-01	8.7736e-01	8.7736e-01
3.2918e+04	8.7513e-01	8.7842e-01	8.7842e-01
3.3005e+04	8.7619e-01	8.7948e-01	8.7948e-01
3.3091e+04	8.7724e-01	8.7948e-01	8.7948e-01
3.3178e+04	8.7829e-01	8.7948e-01	8.7948e-01
3.3264e+04	8.7934e-01	8.8265e-01	8.8265e-01
3.3350e+04	8.8039e-01	8.8371e-01	8.8371e-01
3.3437e+04	8.8143e-01	8.8475e-01	8.8475e-01
3.3523e+04	8.8247e-01	8.8475e-01	8.8475e-01
3.3610e+04	8.8351e-01	8.8475e-01	8.8475e-01
3.3696e+04	8.8455e-01	8.8789e-01	8.8789e-01
3.3782e+04	8.8558e-01	8.8892e-01	8.8892e-01
3.3869e+04	8.8662e-01	8.8996e-01	8.8996e-01
3.3955e+04	8.8764e-01	8.8996e-01	8.8996e-01
3.4042e+04	8.8867e-01	8.8996e-01	8.8996e-01
3.4128e+04	8.8970e-01	8.9305e-01	8.9305e-01
3.4214e+04	8.9072e-01	8.9408e-01	8.9408e-01
3.4301e+04	8.9174e-01	8.9511e-01	8.9511e-01
3.4387e+04	8.9276e-01	8.9511e-01	8.9511e-01
3.4474e+04	8.9377e-01	8.9511e-01	8.9511e-01
3.4560e+04	8.9478e-01	8.9816e-01	8.9816e-01
3.4646e+04	8.9579e-01	8.9918e-01	8.9918e-01
3.4733e+04	8.9680e-01	9.0019e-01	9.0019e-01
3.4819e+04	8.9781e-01	9.0019e-01	9.0019e-01
3.4906e+04	8.9881e-01	9.0019e-01	9.0019e-01
3.4992e+04	8.9981e-01	9.0322e-01	9.0322e-01
3.5078e+04	9.0081e-01	9.0422e-01	9.0422e-01
3.5165e+04	9.0181e-01	9.0522e-01	9.0522e-01
3.5251e+04	9.0280e-01	9.0522e-01	9.0522e-01
3.5338e+04	9.0379e-01	9.0522e-01	9.0522e-01
3.5424e+04	9.0478e-01	9.0821e-01	9.0821e-01
3.5510e+04	9.0577e-01	9.0920e-01	9.0920e-01
3.5597e+04	9.0676e-01	9.1019e-01	9.1019e-01
3.5683e+04	9.0774e-01	9.1019e-01	9.1019e-01

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x	$A(x)$	P_{v1}	P_{v2}
3.5770e+04	9.0872e-01	9.1019e-01	9.1019e-01
3.5856e+04	9.0970e-01	9.1315e-01	9.1315e-01
3.5942e+04	9.1068e-01	9.1413e-01	9.1413e-01
3.6029e+04	9.1165e-01	9.1511e-01	9.1511e-01
3.6115e+04	9.1262e-01	9.1511e-01	9.1511e-01
3.6202e+04	9.1359e-01	9.1511e-01	9.1511e-01
3.6288e+04	9.1456e-01	9.1803e-01	9.1803e-01
3.6374e+04	9.1553e-01	9.1900e-01	9.1900e-01
3.6461e+04	9.1649e-01	9.1997e-01	9.1997e-01
3.6547e+04	9.1745e-01	9.1997e-01	9.1997e-01
3.6634e+04	9.1841e-01	9.1997e-01	9.1997e-01
3.6720e+04	9.1937e-01	9.2286e-01	9.2286e-01
3.6806e+04	9.2032e-01	9.2382e-01	9.2382e-01
3.6893e+04	9.2128e-01	9.2477e-01	9.2477e-01
3.6979e+04	9.2223e-01	9.2477e-01	9.2477e-01
3.7066e+04	9.2318e-01	9.2477e-01	9.2477e-01
3.7152e+04	9.2413e-01	9.2763e-01	9.2763e-01
3.7238e+04	9.2507e-01	9.2858e-01	9.2858e-01
3.7325e+04	9.2601e-01	9.2953e-01	9.2953e-01
3.7411e+04	9.2695e-01	9.2953e-01	9.2953e-01
3.7498e+04	9.2789e-01	9.2953e-01	9.2953e-01
3.7584e+04	9.2883e-01	9.3236e-01	9.3236e-01
3.7670e+04	9.2977e-01	9.3330e-01	9.3330e-01
3.7757e+04	9.3070e-01	9.3423e-01	9.3423e-01
3.7843e+04	9.3163e-01	9.3423e-01	9.3423e-01
3.7930e+04	9.3256e-01	9.3423e-01	9.3423e-01
3.8016e+04	9.3349e-01	9.3703e-01	9.3703e-01
3.8102e+04	9.3441e-01	9.3796e-01	9.3796e-01
3.8189e+04	9.3533e-01	9.3889e-01	9.3889e-01
3.8275e+04	9.3626e-01	9.3889e-01	9.3889e-01
3.8362e+04	9.3718e-01	9.3889e-01	9.3889e-01
3.8448e+04	9.3809e-01	9.4166e-01	9.4166e-01
3.8534e+04	9.3901e-01	9.4258e-01	9.4258e-01
3.8621e+04	9.3992e-01	9.4349e-01	9.4349e-01
3.8707e+04	9.4083e-01	9.4349e-01	9.4349e-01
3.8794e+04	9.4174e-01	9.4349e-01	9.4349e-01
3.8880e+04	9.4265e-01	9.4623e-01	9.4623e-01
3.8966e+04	9.4356e-01	9.4714e-01	9.4714e-01
3.9053e+04	9.4446e-01	9.4805e-01	9.4805e-01
3.9139e+04	9.4536e-01	9.4805e-01	9.4805e-01

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x	$A(x)$	P_{v1}	P_{v2}
3.9226e+04	9.4626e-01	9.4805e-01	9.4805e-01
3.9312e+04	9.4716e-01	9.5076e-01	9.5076e-01
3.9398e+04	9.4806e-01	9.5166e-01	9.5166e-01
3.9485e+04	9.4895e-01	9.5256e-01	9.5256e-01
3.9571e+04	9.4985e-01	9.5256e-01	9.5256e-01
3.9658e+04	9.5074e-01	9.5256e-01	9.5256e-01
3.9744e+04	9.5163e-01	9.5525e-01	9.5525e-01
3.9830e+04	9.5252e-01	9.5614e-01	9.5614e-01
3.9917e+04	9.5340e-01	9.5703e-01	9.5703e-01
4.0003e+04	9.5429e-01	9.5703e-01	9.5703e-01
4.0090e+04	9.5517e-01	9.5703e-01	9.5703e-01
4.0176e+04	9.5605e-01	9.5969e-01	9.5969e-01
4.0262e+04	9.5693e-01	9.6057e-01	9.6057e-01
4.0349e+04	9.5781e-01	9.6145e-01	9.6145e-01
4.0435e+04	9.5869e-01	9.6145e-01	9.6145e-01
4.0522e+04	9.5956e-01	9.6145e-01	9.6145e-01
4.0608e+04	9.6043e-01	9.6408e-01	9.6408e-01
4.0694e+04	9.6131e-01	9.6495e-01	9.6495e-01
4.0781e+04	9.6218e-01	9.6582e-01	9.6582e-01
4.0867e+04	9.6304e-01	9.6582e-01	9.6582e-01
4.0954e+04	9.6391e-01	9.6582e-01	9.6582e-01
4.1040e+04	9.6477e-01	9.6843e-01	9.6843e-01
4.1126e+04	9.6564e-01	9.6929e-01	9.6929e-01
4.1213e+04	9.6650e-01	9.7016e-01	9.7016e-01
4.1299e+04	9.6736e-01	9.7016e-01	9.7016e-01
4.1386e+04	9.6821e-01	9.7016e-01	9.7016e-01
4.1472e+04	9.6907e-01	9.7274e-01	9.7274e-01
4.1558e+04	9.6992e-01	9.7359e-01	9.7359e-01
4.1645e+04	9.7078e-01	9.7445e-01	9.7445e-01
4.1731e+04	9.7163e-01	9.7445e-01	9.7445e-01
4.1818e+04	9.7248e-01	9.7445e-01	9.7445e-01
4.1904e+04	9.7332e-01	9.7700e-01	9.7700e-01
4.1990e+04	9.7417e-01	9.7785e-01	9.7785e-01
4.2077e+04	9.7501e-01	9.7870e-01	9.7870e-01
4.2163e+04	9.7586e-01	9.7870e-01	9.7870e-01
4.2250e+04	9.7670e-01	9.7870e-01	9.7870e-01
4.2336e+04	9.7754e-01	9.8123e-01	9.8123e-01
4.2422e+04	9.7838e-01	9.8207e-01	9.8207e-01
4.2509e+04	9.7921e-01	9.8290e-01	9.8290e-01
4.2595e+04	9.8005e-01	9.8290e-01	9.8290e-01

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x	$A(x)$	P_{v1}	P_{v2}
4.2682e+04	9.8088e-01	9.8290e-01	9.8290e-01
4.2768e+04	9.8171e-01	9.8541e-01	9.8541e-01
4.2854e+04	9.8254e-01	9.8624e-01	9.8624e-01
4.2941e+04	9.8337e-01	9.8707e-01	9.8707e-01
4.3027e+04	9.8420e-01	9.8707e-01	9.8707e-01
4.3114e+04	9.8502e-01	9.8707e-01	9.8707e-01
4.3200e+04	9.8585e-01	9.8955e-01	9.8955e-01
4.3286e+04	9.8667e-01	9.9038e-01	9.9038e-01
4.3373e+04	9.8749e-01	9.9120e-01	9.9120e-01
4.3459e+04	9.8831e-01	9.9120e-01	9.9120e-01
4.3546e+04	9.8913e-01	9.9120e-01	9.9120e-01
4.3632e+04	9.8994e-01	9.9366e-01	9.9366e-01
4.3718e+04	9.9076e-01	9.9448e-01	9.9448e-01
4.3805e+04	9.9157e-01	9.9529e-01	9.9529e-01
4.3891e+04	9.9238e-01	9.9529e-01	9.9529e-01
4.3978e+04	9.9320e-01	9.9529e-01	9.9529e-01
4.4064e+04	9.9400e-01	9.9773e-01	9.9773e-01
4.4150e+04	9.9481e-01	9.9854e-01	9.9854e-01
4.4237e+04	9.9562e-01	9.9934e-01	9.9934e-01
4.4323e+04	9.9642e-01	9.9934e-01	9.9934e-01
4.4410e+04	9.9723e-01	9.9934e-01	9.9934e-01
4.4496e+04	9.9803e-01	1.0018e+00	1.0018e+00
4.4582e+04	9.9883e-01	1.0026e+00	1.0026e+00
4.4669e+04	9.9963e-01	1.0034e+00	1.0034e+00
4.4755e+04	1.0004e+00	1.0034e+00	1.0034e+00
4.4842e+04	1.0012e+00	1.0034e+00	1.0034e+00
4.4928e+04	1.0020e+00	1.0058e+00	1.0058e+00
4.5014e+04	1.0028e+00	1.0065e+00	1.0065e+00
4.5101e+04	1.0036e+00	1.0073e+00	1.0073e+00
4.5187e+04	1.0044e+00	1.0073e+00	1.0073e+00
4.5274e+04	1.0052e+00	1.0073e+00	1.0073e+00
4.5360e+04	1.0060e+00	1.0097e+00	1.0097e+00
4.5446e+04	1.0068e+00	1.0105e+00	1.0105e+00
4.5533e+04	1.0075e+00	1.0113e+00	1.0113e+00
4.5619e+04	1.0083e+00	1.0113e+00	1.0113e+00
4.5706e+04	1.0091e+00	1.0113e+00	1.0113e+00
4.5792e+04	1.0099e+00	1.0136e+00	1.0136e+00
4.5878e+04	1.0107e+00	1.0144e+00	1.0144e+00
4.5965e+04	1.0114e+00	1.0152e+00	1.0152e+00
4.6051e+04	1.0122e+00	1.0152e+00	1.0152e+00

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x	$A(x)$	P_{v1}	P_{v2}
4.6138e+04	1.0130e+00	1.0152e+00	1.0152e+00
4.6224e+04	1.0138e+00	1.0175e+00	1.0175e+00
4.6310e+04	1.0145e+00	1.0183e+00	1.0183e+00
4.6397e+04	1.0153e+00	1.0191e+00	1.0191e+00
4.6483e+04	1.0161e+00	1.0191e+00	1.0191e+00
4.6570e+04	1.0168e+00	1.0191e+00	1.0191e+00
4.6656e+04	1.0176e+00	1.0214e+00	1.0214e+00
4.6742e+04	1.0184e+00	1.0221e+00	1.0221e+00
4.6829e+04	1.0191e+00	1.0229e+00	1.0229e+00
4.6915e+04	1.0199e+00	1.0229e+00	1.0229e+00
4.7002e+04	1.0207e+00	1.0229e+00	1.0229e+00
4.7088e+04	1.0214e+00	1.0252e+00	1.0252e+00
4.7174e+04	1.0222e+00	1.0259e+00	1.0259e+00
4.7261e+04	1.0229e+00	1.0267e+00	1.0267e+00
4.7347e+04	1.0237e+00	1.0267e+00	1.0267e+00
4.7434e+04	1.0245e+00	1.0267e+00	1.0267e+00
4.7520e+04	1.0252e+00	1.0290e+00	1.0290e+00
4.7606e+04	1.0260e+00	1.0297e+00	1.0297e+00
4.7693e+04	1.0267e+00	1.0305e+00	1.0305e+00
4.7779e+04	1.0275e+00	1.0305e+00	1.0305e+00
4.7866e+04	1.0282e+00	1.0305e+00	1.0305e+00
4.7952e+04	1.0290e+00	1.0327e+00	1.0327e+00
4.8038e+04	1.0297e+00	1.0335e+00	1.0335e+00
4.8125e+04	1.0305e+00	1.0342e+00	1.0342e+00
4.8211e+04	1.0312e+00	1.0342e+00	1.0342e+00
4.8298e+04	1.0319e+00	1.0342e+00	1.0342e+00
4.8384e+04	1.0327e+00	1.0365e+00	1.0365e+00
4.8470e+04	1.0334e+00	1.0372e+00	1.0372e+00
4.8557e+04	1.0340e+00	1.0379e+00	1.0379e+00
4.8643e+04	1.0347e+00	1.0379e+00	1.0379e+00
4.8730e+04	1.0355e+00	1.0379e+00	1.0379e+00
4.8816e+04	1.0362e+00	1.0401e+00	1.0401e+00
4.8902e+04	1.0369e+00	1.0409e+00	1.0409e+00
4.8989e+04	1.0377e+00	1.0416e+00	1.0416e+00
4.9075e+04	1.0384e+00	1.0416e+00	1.0416e+00
4.9162e+04	1.0391e+00	1.0416e+00	1.0416e+00
4.9248e+04	1.0399e+00	1.0438e+00	1.0438e+00
4.9334e+04	1.0406e+00	1.0445e+00	1.0445e+00
4.9421e+04	1.0413e+00	1.0453e+00	1.0453e+00
4.9507e+04	1.0420e+00	1.0453e+00	1.0453e+00

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x	$A(x)$	P_{v1}	P_{v2}
4.9594e+04	1.0428e+00	1.0453e+00	1.0453e+00
4.9680e+04	1.0435e+00	1.0474e+00	1.0474e+00
4.9766e+04	1.0442e+00	1.0482e+00	1.0482e+00
4.9853e+04	1.0449e+00	1.0489e+00	1.0489e+00
4.9939e+04	1.0456e+00	1.0489e+00	1.0489e+00
5.0026e+04	1.0464e+00	1.0489e+00	1.0489e+00
5.0112e+04	1.0471e+00	1.0510e+00	1.0510e+00
5.0198e+04	1.0478e+00	1.0517e+00	1.0517e+00
5.0285e+04	1.0485e+00	1.0525e+00	1.0525e+00
5.0371e+04	1.0492e+00	1.0525e+00	1.0525e+00
5.0458e+04	1.0499e+00	1.0525e+00	1.0525e+00
5.0544e+04	1.0506e+00	1.0546e+00	1.0546e+00
5.0630e+04	1.0513e+00	1.0553e+00	1.0553e+00
5.0717e+04	1.0520e+00	1.0560e+00	1.0560e+00
5.0803e+04	1.0528e+00	1.0560e+00	1.0560e+00
5.0890e+04	1.0535e+00	1.0560e+00	1.0560e+00
5.0976e+04	1.0542e+00	1.0581e+00	1.0581e+00
5.1062e+04	1.0549e+00	1.0588e+00	1.0588e+00
5.1149e+04	1.0556e+00	1.0595e+00	1.0595e+00
5.1235e+04	1.0563e+00	1.0595e+00	1.0595e+00
5.1322e+04	1.0570e+00	1.0595e+00	1.0595e+00
5.1408e+04	1.0577e+00	1.0617e+00	1.0617e+00
5.1494e+04	1.0584e+00	1.0624e+00	1.0624e+00
5.1581e+04	1.0591e+00	1.0631e+00	1.0631e+00
5.1667e+04	1.0598e+00	1.0631e+00	1.0631e+00
5.1754e+04	1.0604e+00	1.0631e+00	1.0631e+00
5.1840e+04	1.0611e+00	1.0651e+00	1.0651e+00
5.1926e+04	1.0618e+00	1.0658e+00	1.0658e+00
5.2013e+04	1.0625e+00	1.0665e+00	1.0665e+00
5.2099e+04	1.0632e+00	1.0665e+00	1.0665e+00
5.2186e+04	1.0639e+00	1.0665e+00	1.0665e+00
5.2272e+04	1.0646e+00	1.0686e+00	1.0686e+00
5.2358e+04	1.0653e+00	1.0693e+00	1.0693e+00
5.2445e+04	1.0660e+00	1.0700e+00	1.0700e+00
5.2531e+04	1.0666e+00	1.0700e+00	1.0700e+00
5.2618e+04	1.0673e+00	1.0700e+00	1.0700e+00
5.2704e+04	1.0680e+00	1.0720e+00	1.0720e+00
5.2790e+04	1.0687e+00	1.0727e+00	1.0727e+00
5.2877e+04	1.0694e+00	1.0734e+00	1.0734e+00
5.2963e+04	1.0700e+00	1.0734e+00	1.0734e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.3050e+04	1.0707e+00	1.0734e+00	1.0734e+00
5.3136e+04	1.0714e+00	1.0754e+00	1.0754e+00
5.3222e+04	1.0721e+00	1.0761e+00	1.0761e+00
5.3309e+04	1.0727e+00	1.0768e+00	1.0768e+00
5.3395e+04	1.0734e+00	1.0768e+00	1.0768e+00
5.3482e+04	1.0741e+00	1.0768e+00	1.0768e+00
5.3568e+04	1.0748e+00	1.0788e+00	1.0788e+00
5.3654e+04	1.0754e+00	1.0795e+00	1.0795e+00
5.3741e+04	1.0761e+00	1.0801e+00	1.0801e+00
5.3827e+04	1.0768e+00	1.0801e+00	1.0801e+00
5.3914e+04	1.0774e+00	1.0801e+00	1.0801e+00
5.4000e+04	1.0781e+00	1.0822e+00	1.0822e+00
5.4086e+04	1.0788e+00	1.0828e+00	1.0828e+00
5.4173e+04	1.0794e+00	1.0835e+00	1.0835e+00
5.4259e+04	1.0801e+00	1.0835e+00	1.0835e+00
5.4346e+04	1.0808e+00	1.0835e+00	1.0835e+00
5.4432e+04	1.0814e+00	1.0855e+00	1.0855e+00
5.4518e+04	1.0821e+00	1.0861e+00	1.0861e+00
5.4605e+04	1.0827e+00	1.0868e+00	1.0868e+00
5.4691e+04	1.0834e+00	1.0868e+00	1.0868e+00
5.4778e+04	1.0841e+00	1.0868e+00	1.0868e+00
5.4864e+04	1.0847e+00	1.0888e+00	1.0888e+00
5.4950e+04	1.0854e+00	1.0894e+00	1.0894e+00
5.5037e+04	1.0860e+00	1.0901e+00	1.0901e+00
5.5123e+04	1.0867e+00	1.0901e+00	1.0901e+00
5.5210e+04	1.0873e+00	1.0901e+00	1.0901e+00
5.5296e+04	1.0880e+00	1.0921e+00	1.0921e+00
5.5382e+04	1.0886e+00	1.0927e+00	1.0927e+00
5.5469e+04	1.0893e+00	1.0934e+00	1.0934e+00
5.5555e+04	1.0899e+00	1.0934e+00	1.0934e+00
5.5642e+04	1.0906e+00	1.0934e+00	1.0934e+00
5.5728e+04	1.0912e+00	1.0934e+00	1.0934e+00
5.5814e+04	1.0919e+00	1.0960e+00	1.0960e+00
5.5901e+04	1.0925e+00	1.0966e+00	1.0966e+00
5.5987e+04	1.0932e+00	1.0966e+00	1.0966e+00
5.6074e+04	1.0938e+00	1.0966e+00	1.0966e+00
5.6160e+04	1.0944e+00	1.0966e+00	1.0966e+00
5.6246e+04	1.0951e+00	1.0992e+00	1.0992e+00
5.6333e+04	1.0957e+00	1.0998e+00	1.0998e+00
5.6419e+04	1.0964e+00	1.0998e+00	1.0998e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.6506e+04	1.0970e+00	1.0998e+00	1.0998e+00
5.6592e+04	1.0976e+00	1.0998e+00	1.0998e+00
5.6678e+04	1.0983e+00	1.1024e+00	1.1024e+00
5.6765e+04	1.0989e+00	1.1030e+00	1.1030e+00
5.6851e+04	1.0995e+00	1.1030e+00	1.1030e+00
5.6938e+04	1.1002e+00	1.1030e+00	1.1030e+00
5.7024e+04	1.1008e+00	1.1030e+00	1.1030e+00
5.7110e+04	1.1014e+00	1.1056e+00	1.1056e+00
5.7197e+04	1.1021e+00	1.1062e+00	1.1062e+00
5.7283e+04	1.1027e+00	1.1062e+00	1.1062e+00
5.7370e+04	1.1033e+00	1.1062e+00	1.1062e+00
5.7456e+04	1.1040e+00	1.1062e+00	1.1062e+00
5.7542e+04	1.1046e+00	1.1087e+00	1.1087e+00
5.7629e+04	1.1052e+00	1.1093e+00	1.1093e+00
5.7715e+04	1.1058e+00	1.1093e+00	1.1093e+00
5.7802e+04	1.1065e+00	1.1093e+00	1.1093e+00
5.7888e+04	1.1071e+00	1.1093e+00	1.1093e+00
5.7974e+04	1.1077e+00	1.1118e+00	1.1118e+00
5.8061e+04	1.1083e+00	1.1125e+00	1.1125e+00
5.8147e+04	1.1090e+00	1.1125e+00	1.1125e+00
5.8234e+04	1.1096e+00	1.1125e+00	1.1125e+00
5.8320e+04	1.1102e+00	1.1125e+00	1.1125e+00
5.8406e+04	1.1108e+00	1.1149e+00	1.1149e+00
5.8493e+04	1.1114e+00	1.1156e+00	1.1156e+00
5.8579e+04	1.1120e+00	1.1156e+00	1.1156e+00
5.8666e+04	1.1127e+00	1.1156e+00	1.1156e+00
5.8752e+04	1.1133e+00	1.1156e+00	1.1156e+00
5.8838e+04	1.1139e+00	1.1180e+00	1.1180e+00
5.8925e+04	1.1145e+00	1.1186e+00	1.1186e+00
5.9011e+04	1.1151e+00	1.1186e+00	1.1186e+00
5.9098e+04	1.1157e+00	1.1186e+00	1.1186e+00
5.9184e+04	1.1163e+00	1.1186e+00	1.1186e+00
5.9270e+04	1.1169e+00	1.1211e+00	1.1211e+00
5.9357e+04	1.1176e+00	1.1217e+00	1.1217e+00
5.9443e+04	1.1182e+00	1.1217e+00	1.1217e+00
5.9530e+04	1.1188e+00	1.1217e+00	1.1217e+00
5.9616e+04	1.1194e+00	1.1217e+00	1.1217e+00
5.9702e+04	1.1200e+00	1.1241e+00	1.1241e+00
5.9789e+04	1.1206e+00	1.1247e+00	1.1247e+00
5.9875e+04	1.1212e+00	1.1247e+00	1.1247e+00

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x	$A(x)$	P_{v1}	P_{v2}
5.9962e+04	1.1218e+00	1.1247e+00	1.1247e+00
6.0048e+04	1.1224e+00	1.1247e+00	1.1247e+00
6.0134e+04	1.1230e+00	1.1272e+00	1.1272e+00
6.0221e+04	1.1236e+00	1.1278e+00	1.1278e+00
6.0307e+04	1.1242e+00	1.1278e+00	1.1278e+00
6.0394e+04	1.1248e+00	1.1278e+00	1.1278e+00
6.0480e+04	1.1254e+00	1.1278e+00	1.1278e+00
6.0566e+04	1.1260e+00	1.1302e+00	1.1302e+00
6.0653e+04	1.1266e+00	1.1308e+00	1.1308e+00
6.0739e+04	1.1272e+00	1.1308e+00	1.1308e+00
6.0826e+04	1.1278e+00	1.1308e+00	1.1308e+00
6.0912e+04	1.1284e+00	1.1308e+00	1.1308e+00
6.0998e+04	1.1290e+00	1.1331e+00	1.1331e+00
6.1085e+04	1.1296e+00	1.1337e+00	1.1337e+00
6.1171e+04	1.1302e+00	1.1337e+00	1.1337e+00
6.1258e+04	1.1307e+00	1.1337e+00	1.1337e+00
6.1344e+04	1.1313e+00	1.1337e+00	1.1337e+00
6.1430e+04	1.1319e+00	1.1361e+00	1.1361e+00
6.1517e+04	1.1325e+00	1.1367e+00	1.1367e+00
6.1603e+04	1.1331e+00	1.1367e+00	1.1367e+00
6.1690e+04	1.1337e+00	1.1367e+00	1.1367e+00
6.1776e+04	1.1315e+00	1.1367e+00	1.1367e+00
6.1862e+04	1.1321e+00	1.1390e+00	1.1390e+00
6.1949e+04	1.1354e+00	1.1396e+00	1.1396e+00
6.2035e+04	1.1360e+00	1.1396e+00	1.1396e+00
6.2122e+04	1.1366e+00	1.1396e+00	1.1396e+00
6.2208e+04	1.1372e+00	1.1396e+00	1.1396e+00
6.2294e+04	1.1378e+00	1.1420e+00	1.1420e+00
6.2381e+04	1.1384e+00	1.1425e+00	1.1425e+00
6.2467e+04	1.1389e+00	1.1425e+00	1.1425e+00
6.2554e+04	1.1395e+00	1.1425e+00	1.1425e+00
6.2640e+04	1.1401e+00	1.1425e+00	1.1425e+00
6.2726e+04	1.1407e+00	1.1449e+00	1.1449e+00
6.2813e+04	1.1412e+00	1.1454e+00	1.1454e+00
6.2899e+04	1.1418e+00	1.1454e+00	1.1454e+00
6.2986e+04	1.1424e+00	1.1454e+00	1.1454e+00
6.3072e+04	1.1430e+00	1.1454e+00	1.1454e+00
6.3158e+04	1.1435e+00	1.1477e+00	1.1477e+00
6.3245e+04	1.1441e+00	1.1483e+00	1.1483e+00
6.3331e+04	1.1447e+00	1.1483e+00	1.1483e+00

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x	$A(x)$	P_{v1}	P_{v2}
6.3418e+04	1.1453e+00	1.1483e+00	1.1483e+00
6.3504e+04	1.1458e+00	1.1483e+00	1.1483e+00
6.3590e+04	1.1464e+00	1.1506e+00	1.1506e+00
6.3677e+04	1.1470e+00	1.1512e+00	1.1512e+00
6.3763e+04	1.1475e+00	1.1512e+00	1.1512e+00
6.3850e+04	1.1481e+00	1.1512e+00	1.1512e+00
6.3936e+04	1.1487e+00	1.1512e+00	1.1512e+00
6.4022e+04	1.1492e+00	1.1534e+00	1.1534e+00
6.4109e+04	1.1498e+00	1.1540e+00	1.1540e+00
6.4195e+04	1.1504e+00	1.1540e+00	1.1540e+00
6.4282e+04	1.1509e+00	1.1540e+00	1.1540e+00
6.4368e+04	1.1515e+00	1.1540e+00	1.1540e+00
6.4454e+04	1.1521e+00	1.1563e+00	1.1563e+00
6.4541e+04	1.1526e+00	1.1568e+00	1.1568e+00
6.4627e+04	1.1532e+00	1.1568e+00	1.1568e+00
6.4714e+04	1.1537e+00	1.1568e+00	1.1568e+00
6.4800e+04	1.1543e+00	1.1568e+00	1.1568e+00
6.4886e+04	1.1549e+00	1.1591e+00	1.1591e+00
6.4973e+04	1.1554e+00	1.1596e+00	1.1596e+00
6.5059e+04	1.1560e+00	1.1596e+00	1.1596e+00
6.5146e+04	1.1565e+00	1.1596e+00	1.1596e+00
6.5232e+04	1.1571e+00	1.1596e+00	1.1596e+00
6.5318e+04	1.1577e+00	1.1619e+00	1.1619e+00
6.5405e+04	1.1582e+00	1.1624e+00	1.1624e+00
6.5491e+04	1.1588e+00	1.1624e+00	1.1624e+00
6.5578e+04	1.1593e+00	1.1635e+00	1.1635e+00
6.5664e+04	1.1599e+00	1.1641e+00	1.1641e+00
6.5750e+04	1.1604e+00	1.1641e+00	1.1641e+00
6.5837e+04	1.1610e+00	1.1652e+00	1.1652e+00
6.5923e+04	1.1615e+00	1.1657e+00	1.1657e+00
6.6010e+04	1.1621e+00	1.1663e+00	1.1663e+00
6.6096e+04	1.1626e+00	1.1668e+00	1.1668e+00
6.6182e+04	1.1632e+00	1.1668e+00	1.1668e+00
6.6269e+04	1.1637e+00	1.1679e+00	1.1679e+00
6.6355e+04	1.1643e+00	1.1679e+00	1.1679e+00
6.6442e+04	1.1648e+00	1.1690e+00	1.1690e+00
6.6528e+04	1.1654e+00	1.1696e+00	1.1696e+00
6.6614e+04	1.1659e+00	1.1696e+00	1.1696e+00
6.6701e+04	1.1664e+00	1.1707e+00	1.1707e+00
6.6787e+04	1.1670e+00	1.1707e+00	1.1707e+00

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x	$A(x)$	P_{v1}	P_{v2}
6.6874e+04	1.1675e+00	1.1717e+00	1.1717e+00
6.6960e+04	1.1681e+00	1.1723e+00	1.1723e+00
6.7046e+04	1.1686e+00	1.1723e+00	1.1723e+00
6.7133e+04	1.1692e+00	1.1734e+00	1.1734e+00
6.7219e+04	1.1697e+00	1.1734e+00	1.1734e+00
6.7306e+04	1.1702e+00	1.1745e+00	1.1745e+00
6.7392e+04	1.1708e+00	1.1750e+00	1.1750e+00
6.7478e+04	1.1713e+00	1.1750e+00	1.1750e+00
6.7565e+04	1.1719e+00	1.1761e+00	1.1761e+00
6.7651e+04	1.1724e+00	1.1761e+00	1.1761e+00
6.7738e+04	1.1729e+00	1.1771e+00	1.1771e+00
6.7824e+04	1.1735e+00	1.1777e+00	1.1777e+00
6.7910e+04	1.1740e+00	1.1777e+00	1.1777e+00
6.7997e+04	1.1745e+00	1.1788e+00	1.1788e+00
6.8083e+04	1.1751e+00	1.1788e+00	1.1788e+00
6.8170e+04	1.1756e+00	1.1798e+00	1.1798e+00
6.8256e+04	1.1761e+00	1.1804e+00	1.1804e+00
6.8342e+04	1.1767e+00	1.1804e+00	1.1804e+00
6.8429e+04	1.1772e+00	1.1814e+00	1.1814e+00
6.8515e+04	1.1777e+00	1.1814e+00	1.1814e+00
6.8602e+04	1.1783e+00	1.1825e+00	1.1825e+00
6.8688e+04	1.1788e+00	1.1830e+00	1.1830e+00
6.8774e+04	1.1793e+00	1.1830e+00	1.1830e+00
6.8861e+04	1.1798e+00	1.1841e+00	1.1841e+00
6.8947e+04	1.1804e+00	1.1841e+00	1.1841e+00
6.9034e+04	1.1809e+00	1.1851e+00	1.1851e+00
6.9120e+04	1.1814e+00	1.1856e+00	1.1856e+00
6.9206e+04	1.1820e+00	1.1856e+00	1.1856e+00
6.9293e+04	1.1825e+00	1.1867e+00	1.1867e+00
6.9379e+04	1.1830e+00	1.1867e+00	1.1867e+00
6.9466e+04	1.1835e+00	1.1877e+00	1.1877e+00
6.9552e+04	1.1841e+00	1.1883e+00	1.1883e+00
6.9638e+04	1.1846e+00	1.1883e+00	1.1883e+00
6.9725e+04	1.1851e+00	1.1893e+00	1.1893e+00
6.9811e+04	1.1856e+00	1.1893e+00	1.1893e+00
6.9898e+04	1.1861e+00	1.1904e+00	1.1904e+00
6.9984e+04	1.1867e+00	1.1909e+00	1.1909e+00
7.0070e+04	1.1872e+00	1.1909e+00	1.1909e+00
7.0157e+04	1.1877e+00	1.1919e+00	1.1919e+00
7.0243e+04	1.1882e+00	1.1919e+00	1.1919e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.0330e+04	1.1887e+00	1.1929e+00	1.1929e+00
7.0416e+04	1.1893e+00	1.1935e+00	1.1935e+00
7.0502e+04	1.1898e+00	1.1935e+00	1.1935e+00
7.0589e+04	1.1903e+00	1.1945e+00	1.1945e+00
7.0675e+04	1.1908e+00	1.1945e+00	1.1945e+00
7.0762e+04	1.1913e+00	1.1955e+00	1.1955e+00
7.0848e+04	1.1918e+00	1.1960e+00	1.1960e+00
7.0934e+04	1.1923e+00	1.1960e+00	1.1960e+00
7.1021e+04	1.1929e+00	1.1971e+00	1.1971e+00
7.1107e+04	1.1934e+00	1.1971e+00	1.1971e+00
7.1194e+04	1.1939e+00	1.1981e+00	1.1981e+00
7.1280e+04	1.1944e+00	1.1986e+00	1.1986e+00
7.1366e+04	1.1949e+00	1.1986e+00	1.1986e+00
7.1453e+04	1.1954e+00	1.1996e+00	1.1996e+00
7.1539e+04	1.1959e+00	1.1996e+00	1.1996e+00
7.1626e+04	1.1964e+00	1.2006e+00	1.2006e+00
7.1712e+04	1.1969e+00	1.2011e+00	1.2011e+00
7.1798e+04	1.1974e+00	1.2011e+00	1.2011e+00
7.1885e+04	1.1979e+00	1.2022e+00	1.2022e+00
7.1971e+04	1.1985e+00	1.2022e+00	1.2022e+00
7.2058e+04	1.1990e+00	1.2032e+00	1.2032e+00
7.2144e+04	1.1995e+00	1.2037e+00	1.2037e+00
7.2230e+04	1.2000e+00	1.2037e+00	1.2037e+00
7.2317e+04	1.2005e+00	1.2047e+00	1.2047e+00
7.2403e+04	1.2010e+00	1.2047e+00	1.2047e+00
7.2490e+04	1.2015e+00	1.2057e+00	1.2057e+00
7.2576e+04	1.2020e+00	1.2062e+00	1.2062e+00
7.2662e+04	1.2025e+00	1.2062e+00	1.2062e+00
7.2749e+04	1.2030e+00	1.2072e+00	1.2072e+00
7.2835e+04	1.2035e+00	1.2072e+00	1.2072e+00
7.2922e+04	1.2040e+00	1.2082e+00	1.2082e+00
7.3008e+04	1.2045e+00	1.2087e+00	1.2087e+00
7.3094e+04	1.2050e+00	1.2087e+00	1.2087e+00
7.3181e+04	1.2055e+00	1.2097e+00	1.2097e+00
7.3267e+04	1.2060e+00	1.2097e+00	1.2097e+00
7.3354e+04	1.2065e+00	1.2107e+00	1.2107e+00
7.3440e+04	1.2070e+00	1.2112e+00	1.2112e+00
7.3526e+04	1.2075e+00	1.2112e+00	1.2112e+00
7.3613e+04	1.2080e+00	1.2122e+00	1.2122e+00
7.3699e+04	1.2085e+00	1.2122e+00	1.2122e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.3786e+04	1.2090e+00	1.2131e+00	1.2131e+00
7.3872e+04	1.2095e+00	1.2136e+00	1.2136e+00
7.3958e+04	1.2099e+00	1.2136e+00	1.2136e+00
7.4045e+04	1.2104e+00	1.2146e+00	1.2146e+00
7.4131e+04	1.2109e+00	1.2146e+00	1.2146e+00
7.4218e+04	1.2114e+00	1.2156e+00	1.2156e+00
7.4304e+04	1.2119e+00	1.2161e+00	1.2161e+00
7.4390e+04	1.2124e+00	1.2161e+00	1.2161e+00
7.4477e+04	1.2129e+00	1.2171e+00	1.2171e+00
7.4563e+04	1.2134e+00	1.2171e+00	1.2171e+00
7.4650e+04	1.2139e+00	1.2181e+00	1.2181e+00
7.4736e+04	1.2144e+00	1.2185e+00	1.2185e+00
7.4822e+04	1.2148e+00	1.2185e+00	1.2185e+00
7.4909e+04	1.2153e+00	1.2195e+00	1.2195e+00
7.4995e+04	1.2158e+00	1.2195e+00	1.2195e+00
7.5082e+04	1.2163e+00	1.2205e+00	1.2205e+00
7.5168e+04	1.2168e+00	1.2210e+00	1.2210e+00
7.5254e+04	1.2173e+00	1.2210e+00	1.2210e+00
7.5341e+04	1.2178e+00	1.2219e+00	1.2219e+00
7.5427e+04	1.2182e+00	1.2219e+00	1.2219e+00
7.5514e+04	1.2187e+00	1.2229e+00	1.2229e+00
7.5600e+04	1.2192e+00	1.2234e+00	1.2234e+00
7.5686e+04	1.2197e+00	1.2234e+00	1.2234e+00
7.5773e+04	1.2202e+00	1.2243e+00	1.2243e+00
7.5859e+04	1.2207e+00	1.2243e+00	1.2243e+00
7.5946e+04	1.2211e+00	1.2253e+00	1.2253e+00
7.6032e+04	1.2216e+00	1.2258e+00	1.2258e+00
7.6118e+04	1.2221e+00	1.2258e+00	1.2258e+00
7.6205e+04	1.2226e+00	1.2267e+00	1.2267e+00
7.6291e+04	1.2231e+00	1.2267e+00	1.2267e+00
7.6378e+04	1.2235e+00	1.2277e+00	1.2277e+00
7.6464e+04	1.2240e+00	1.2282e+00	1.2282e+00
7.6550e+04	1.2245e+00	1.2282e+00	1.2282e+00
7.6637e+04	1.2250e+00	1.2291e+00	1.2291e+00
7.6723e+04	1.2254e+00	1.2291e+00	1.2291e+00
7.6810e+04	1.2259e+00	1.2301e+00	1.2301e+00
7.6896e+04	1.2264e+00	1.2305e+00	1.2305e+00
7.6982e+04	1.2269e+00	1.2305e+00	1.2305e+00
7.7069e+04	1.2273e+00	1.2315e+00	1.2315e+00
7.7155e+04	1.2278e+00	1.2315e+00	1.2315e+00

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x	$A(x)$	P_{v1}	P_{v2}
7.7242e+04	1.2283e+00	1.2324e+00	1.2324e+00
7.7328e+04	1.2288e+00	1.2329e+00	1.2329e+00
7.7414e+04	1.2292e+00	1.2329e+00	1.2329e+00
7.7501e+04	1.2297e+00	1.2338e+00	1.2338e+00
7.7587e+04	1.2302e+00	1.2338e+00	1.2338e+00
7.7674e+04	1.2307e+00	1.2348e+00	1.2348e+00
7.7760e+04	1.2311e+00	1.2353e+00	1.2353e+00
7.7846e+04	1.2316e+00	1.2353e+00	1.2353e+00
7.7933e+04	1.2321e+00	1.2362e+00	1.2362e+00
7.8019e+04	1.2325e+00	1.2362e+00	1.2362e+00
7.8106e+04	1.2330e+00	1.2371e+00	1.2371e+00
7.8192e+04	1.2335e+00	1.2376e+00	1.2376e+00
7.8278e+04	1.2339e+00	1.2376e+00	1.2376e+00
7.8365e+04	1.2344e+00	1.2385e+00	1.2385e+00
7.8451e+04	1.2349e+00	1.2385e+00	1.2385e+00
7.8538e+04	1.2353e+00	1.2394e+00	1.2394e+00
7.8624e+04	1.2358e+00	1.2399e+00	1.2399e+00
7.8710e+04	1.2363e+00	1.2399e+00	1.2399e+00
7.8797e+04	1.2367e+00	1.2408e+00	1.2408e+00
7.8883e+04	1.2372e+00	1.2408e+00	1.2408e+00
7.8970e+04	1.2377e+00	1.2418e+00	1.2418e+00
7.9056e+04	1.2381e+00	1.2422e+00	1.2422e+00
7.9142e+04	1.2386e+00	1.2422e+00	1.2422e+00
7.9229e+04	1.2390e+00	1.2431e+00	1.2431e+00
7.9315e+04	1.2395e+00	1.2431e+00	1.2431e+00
7.9402e+04	1.2400e+00	1.2441e+00	1.2441e+00
7.9488e+04	1.2404e+00	1.2445e+00	1.2445e+00
7.9574e+04	1.2409e+00	1.2445e+00	1.2445e+00
7.9661e+04	1.2413e+00	1.2454e+00	1.2454e+00
7.9747e+04	1.2418e+00	1.2454e+00	1.2454e+00
7.9834e+04	1.2423e+00	1.2463e+00	1.2463e+00
7.9920e+04	1.2427e+00	1.2468e+00	1.2468e+00
8.0006e+04	1.2432e+00	1.2468e+00	1.2468e+00
8.0093e+04	1.2436e+00	1.2477e+00	1.2477e+00
8.0179e+04	1.2441e+00	1.2477e+00	1.2477e+00
8.0266e+04	1.2445e+00	1.2486e+00	1.2486e+00
8.0352e+04	1.2450e+00	1.2491e+00	1.2491e+00
8.0438e+04	1.2455e+00	1.2491e+00	1.2491e+00
8.0525e+04	1.2459e+00	1.2500e+00	1.2500e+00
8.0611e+04	1.2464e+00	1.2500e+00	1.2500e+00

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x	$A(x)$	P_{v1}	P_{v2}
8.0698e+04	1.2468e+00	1.2509e+00	1.2509e+00
8.0784e+04	1.2473e+00	1.2513e+00	1.2513e+00
8.0870e+04	1.2477e+00	1.2513e+00	1.2513e+00
8.0957e+04	1.2482e+00	1.2522e+00	1.2522e+00
8.1043e+04	1.2486e+00	1.2522e+00	1.2522e+00
8.1130e+04	1.2491e+00	1.2531e+00	1.2531e+00
8.1216e+04	1.2495e+00	1.2536e+00	1.2536e+00
8.1302e+04	1.2500e+00	1.2536e+00	1.2536e+00
8.1389e+04	1.2504e+00	1.2545e+00	1.2545e+00
8.1475e+04	1.2509e+00	1.2545e+00	1.2545e+00
8.1562e+04	1.2513e+00	1.2554e+00	1.2554e+00
8.1648e+04	1.2518e+00	1.2558e+00	1.2558e+00
8.1734e+04	1.2522e+00	1.2558e+00	1.2558e+00
8.1821e+04	1.2527e+00	1.2567e+00	1.2567e+00
8.1907e+04	1.2531e+00	1.2567e+00	1.2567e+00
8.1994e+04	1.2536e+00	1.2576e+00	1.2576e+00
8.2080e+04	1.2540e+00	1.2580e+00	1.2580e+00
8.2166e+04	1.2545e+00	1.2580e+00	1.2580e+00
8.2253e+04	1.2549e+00	1.2589e+00	1.2589e+00
8.2339e+04	1.2554e+00	1.2589e+00	1.2589e+00
8.2426e+04	1.2558e+00	1.2598e+00	1.2598e+00
8.2512e+04	1.2562e+00	1.2603e+00	1.2603e+00
8.2598e+04	1.2567e+00	1.2603e+00	1.2603e+00
8.2685e+04	1.2571e+00	1.2611e+00	1.2611e+00
8.2771e+04	1.2576e+00	1.2611e+00	1.2611e+00
8.2858e+04	1.2580e+00	1.2620e+00	1.2620e+00
8.2944e+04	1.2585e+00	1.2625e+00	1.2625e+00
8.3030e+04	1.2589e+00	1.2625e+00	1.2625e+00
8.3117e+04	1.2593e+00	1.2633e+00	1.2633e+00
8.3203e+04	1.2598e+00	1.2633e+00	1.2633e+00
8.3290e+04	1.2602e+00	1.2642e+00	1.2642e+00
8.3376e+04	1.2607e+00	1.2646e+00	1.2646e+00
8.3462e+04	1.2611e+00	1.2646e+00	1.2646e+00
8.3549e+04	1.2615e+00	1.2655e+00	1.2655e+00
8.3635e+04	1.2620e+00	1.2655e+00	1.2655e+00
8.3722e+04	1.2624e+00	1.2664e+00	1.2664e+00
8.3808e+04	1.2628e+00	1.2668e+00	1.2668e+00
8.3894e+04	1.2633e+00	1.2668e+00	1.2668e+00
8.3981e+04	1.2637e+00	1.2677e+00	1.2677e+00
8.4067e+04	1.2642e+00	1.2677e+00	1.2677e+00

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x	$A(x)$	P_{v1}	P_{v2}
8.4154e+04	1.2646e+00	1.2686e+00	1.2686e+00
8.4240e+04	1.2650e+00	1.2690e+00	1.2690e+00
8.4326e+04	1.2655e+00	1.2690e+00	1.2690e+00
8.4413e+04	1.2659e+00	1.2698e+00	1.2698e+00
8.4499e+04	1.2663e+00	1.2698e+00	1.2698e+00
8.4586e+04	1.2668e+00	1.2707e+00	1.2707e+00
8.4672e+04	1.2672e+00	1.2711e+00	1.2711e+00
8.4758e+04	1.2676e+00	1.2711e+00	1.2711e+00
8.4845e+04	1.2681e+00	1.2720e+00	1.2720e+00
8.4931e+04	1.2685e+00	1.2720e+00	1.2720e+00
8.5018e+04	1.2689e+00	1.2729e+00	1.2729e+00
8.5104e+04	1.2694e+00	1.2733e+00	1.2733e+00
8.5190e+04	1.2698e+00	1.2733e+00	1.2733e+00
8.5277e+04	1.2702e+00	1.2741e+00	1.2741e+00
8.5363e+04	1.2707e+00	1.2741e+00	1.2741e+00
8.5450e+04	1.2711e+00	1.2750e+00	1.2750e+00
8.5536e+04	1.2715e+00	1.2754e+00	1.2754e+00
8.5622e+04	1.2719e+00	1.2754e+00	1.2754e+00
8.5709e+04	1.2724e+00	1.2763e+00	1.2763e+00
8.5795e+04	1.2728e+00	1.2763e+00	1.2763e+00
8.5882e+04	1.2732e+00	1.2771e+00	1.2771e+00
8.5968e+04	1.2736e+00	1.2775e+00	1.2775e+00
8.6054e+04	1.2741e+00	1.2775e+00	1.2775e+00
8.6141e+04	1.2745e+00	1.2784e+00	1.2784e+00
8.6227e+04	1.2749e+00	1.2784e+00	1.2784e+00
8.6314e+04	1.2754e+00	1.2792e+00	1.2792e+00
8.6400e+04	1.2758e+00	1.2796e+00	1.2796e+00

Table B.4.37: Output for Problem 4.7

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	5.0668e-09	1.7054e-08	1.7054e-08
2	7.7797e-05	9.0138e-05	9.0138e-05
3	2.2323e-03	2.3117e-03	2.3117e-03
4	1.2754e-02	1.2884e-02	1.2884e-02
5	3.7614e-02	3.7708e-02	3.7708e-02
6	7.9103e-02	7.9081e-02	7.9081e-02
7	1.3657e-01	1.3638e-01	1.3638e-01

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x	$A(x)$	P_{v1}	P_{v2}
8	2.0790e-01	2.0753e-01	2.0753e-01
9	2.9056e-01	2.9002e-01	2.9002e-01
10	3.8210e-01	3.8139e-01	3.8139e-01
11	4.8033e-01	4.7948e-01	4.7948e-01
12	5.8342e-01	5.8243e-01	5.8243e-01
13	6.8985e-01	6.8876e-01	6.8876e-01
14	7.9842e-01	7.9723e-01	7.9723e-01
15	9.0814e-01	9.0687e-01	9.0687e-01
16	1.0182e+00	1.0169e+00	1.0169e+00
17	1.1281e+00	1.1267e+00	1.1267e+00
18	1.2373e+00	1.2359e+00	1.2359e+00
19	1.3454e+00	1.3439e+00	1.3439e+00
20	1.4521e+00	1.4506e+00	1.4506e+00
21	1.5572e+00	1.5557e+00	1.5557e+00
22	1.6606e+00	1.6591e+00	1.6591e+00
23	1.7621e+00	1.7606e+00	1.7606e+00
24	1.8617e+00	1.8601e+00	1.8601e+00
25	1.9592e+00	1.9577e+00	1.9577e+00
26	2.0547e+00	2.0532e+00	2.0532e+00
27	2.1482e+00	2.1466e+00	2.1466e+00
28	2.2396e+00	2.2380e+00	2.2380e+00
29	2.3289e+00	2.3273e+00	2.3273e+00
30	2.4162e+00	2.4146e+00	2.4146e+00
31	2.5015e+00	2.4999e+00	2.4999e+00
32	2.5847e+00	2.5832e+00	2.5832e+00
33	2.6661e+00	2.6646e+00	2.6646e+00
34	2.7455e+00	2.7440e+00	2.7440e+00
35	2.8231e+00	2.8216e+00	2.8216e+00
36	2.8988e+00	2.8973e+00	2.8973e+00
37	2.9728e+00	2.9713e+00	2.9713e+00
38	3.0450e+00	3.0435e+00	3.0435e+00
39	3.1155e+00	3.1140e+00	3.1140e+00
40	3.1843e+00	3.1829e+00	3.1829e+00
41	3.2515e+00	3.2501e+00	3.2501e+00
42	3.3172e+00	3.3158e+00	3.3158e+00
43	3.3813e+00	3.3799e+00	3.3799e+00
44	3.4439e+00	3.4425e+00	3.4425e+00
45	3.5051e+00	3.5037e+00	3.5037e+00
46	3.5649e+00	3.5635e+00	3.5635e+00
47	3.6233e+00	3.6219e+00	3.6219e+00

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x	$A(x)$	P_{v1}	P_{v2}
48	3.6803e+00	3.6790e+00	3.6790e+00
49	3.7361e+00	3.7348e+00	3.7348e+00
50	3.7906e+00	3.7893e+00	3.7893e+00
51	3.8439e+00	3.8426e+00	3.8426e+00
52	3.8959e+00	3.8946e+00	3.8946e+00
53	3.9468e+00	3.9456e+00	3.9456e+00
54	3.9966e+00	3.9954e+00	3.9954e+00
55	4.0453e+00	4.0441e+00	4.0441e+00
56	4.0929e+00	4.0917e+00	4.0917e+00
57	4.1395e+00	4.1383e+00	4.1383e+00
58	4.1850e+00	4.1838e+00	4.1838e+00
59	4.2296e+00	4.2284e+00	4.2284e+00
60	4.2732e+00	4.2720e+00	4.2720e+00
61	4.3159e+00	4.3147e+00	4.3147e+00
62	4.3577e+00	4.3565e+00	4.3565e+00
63	4.3986e+00	4.3974e+00	4.3974e+00
64	4.4386e+00	4.4374e+00	4.4374e+00
65	4.4777e+00	4.4766e+00	4.4766e+00
66	4.5161e+00	4.5150e+00	4.5150e+00
67	4.5537e+00	4.5525e+00	4.5525e+00
68	4.5904e+00	4.5893e+00	4.5893e+00
69	4.6265e+00	4.6254e+00	4.6254e+00
70	4.6617e+00	4.6606e+00	4.6606e+00
71	4.6963e+00	4.6952e+00	4.6952e+00
72	4.7302e+00	4.7291e+00	4.7291e+00
73	4.7633e+00	4.7623e+00	4.7623e+00
74	4.7959e+00	4.7948e+00	4.7948e+00
75	4.8277e+00	4.8267e+00	4.8267e+00
76	4.8589e+00	4.8579e+00	4.8579e+00
77	4.8895e+00	4.8885e+00	4.8885e+00
78	4.9196e+00	4.9185e+00	4.9185e+00
79	4.9490e+00	4.9479e+00	4.9479e+00
80	4.9778e+00	4.9768e+00	4.9768e+00
81	5.0061e+00	5.0051e+00	5.0051e+00
82	5.0338e+00	5.0328e+00	5.0328e+00
83	5.0610e+00	5.0600e+00	5.0600e+00
84	5.0877e+00	5.0867e+00	5.0867e+00
85	5.1138e+00	5.1128e+00	5.1128e+00
86	5.1395e+00	5.1385e+00	5.1385e+00
87	5.1646e+00	5.1637e+00	5.1637e+00

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x	$A(x)$	P_{v1}	P_{v2}
88	5.1893e+00	5.1884e+00	5.1884e+00
89	5.2135e+00	5.2126e+00	5.2126e+00
90	5.2373e+00	5.2364e+00	5.2364e+00
91	5.2606e+00	5.2597e+00	5.2597e+00
92	5.2835e+00	5.2826e+00	5.2826e+00
93	5.3060e+00	5.3051e+00	5.3051e+00
94	5.3280e+00	5.3271e+00	5.3271e+00
95	5.3497e+00	5.3488e+00	5.3488e+00
96	5.3709e+00	5.3700e+00	5.3700e+00
97	5.3918e+00	5.3909e+00	5.3909e+00
98	5.4123e+00	5.4114e+00	5.4114e+00
99	5.4324e+00	5.4315e+00	5.4315e+00
100	5.4521e+00	5.4512e+00	5.4512e+00
101	5.4715e+00	5.4706e+00	5.4706e+00
102	5.4905e+00	5.4897e+00	5.4897e+00
103	5.5092e+00	5.5084e+00	5.5084e+00
104	5.5276e+00	5.5267e+00	5.5267e+00
105	5.5456e+00	5.5448e+00	5.5448e+00
106	5.5634e+00	5.5625e+00	5.5625e+00
107	5.5808e+00	5.5799e+00	5.5799e+00
108	5.5979e+00	5.5970e+00	5.5970e+00
109	5.6146e+00	5.6138e+00	5.6138e+00
110	5.6311e+00	5.6303e+00	5.6303e+00
111	5.6474e+00	5.6465e+00	5.6465e+00
112	5.6633e+00	5.6625e+00	5.6625e+00
113	5.6789e+00	5.6781e+00	5.6781e+00
114	5.6943e+00	5.6935e+00	5.6935e+00
115	5.7095e+00	5.7086e+00	5.7086e+00
116	5.7243e+00	5.7235e+00	5.7235e+00
117	5.7389e+00	5.7381e+00	5.7381e+00
118	5.7533e+00	5.7525e+00	5.7525e+00
119	5.7674e+00	5.7666e+00	5.7666e+00
120	5.7813e+00	5.7805e+00	5.7805e+00
121	5.7949e+00	5.7941e+00	5.7941e+00
122	5.8083e+00	5.8075e+00	5.8075e+00
123	5.8215e+00	5.8207e+00	5.8207e+00
124	5.8344e+00	5.8337e+00	5.8337e+00
125	5.8472e+00	5.8464e+00	5.8464e+00
126	5.8597e+00	5.8589e+00	5.8589e+00
127	5.8720e+00	5.8712e+00	5.8712e+00

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x	$A(x)$	P_{v1}	P_{v2}
128	5.8841e+00	5.8834e+00	5.8834e+00
129	5.8960e+00	5.8953e+00	5.8953e+00
130	5.9078e+00	5.9070e+00	5.9070e+00
131	5.9193e+00	5.9185e+00	5.9185e+00
132	5.9306e+00	5.9299e+00	5.9299e+00
133	5.9418e+00	5.9410e+00	5.9410e+00
134	5.9527e+00	5.9520e+00	5.9520e+00
135	5.9635e+00	5.9628e+00	5.9628e+00
136	5.9741e+00	5.9734e+00	5.9734e+00
137	5.9846e+00	5.9839e+00	5.9839e+00
138	5.9948e+00	5.9941e+00	5.9941e+00
139	6.0049e+00	6.0042e+00	6.0042e+00
140	6.0149e+00	6.0142e+00	6.0142e+00
141	6.0246e+00	6.0240e+00	6.0240e+00
142	6.0343e+00	6.0336e+00	6.0336e+00
143	6.0437e+00	6.0431e+00	6.0431e+00
144	6.0531e+00	6.0524e+00	6.0524e+00
145	6.0622e+00	6.0616e+00	6.0616e+00
146	6.0712e+00	6.0706e+00	6.0706e+00
147	6.0801e+00	6.0795e+00	6.0795e+00
148	6.0898e+00	6.0882e+00	6.0882e+00
149	6.0975e+00	6.0968e+00	6.0968e+00
150	6.1059e+00	6.1053e+00	6.1053e+00
151	6.1142e+00	6.1136e+00	6.1136e+00
152	6.1224e+00	6.1218e+00	6.1218e+00
153	6.1305e+00	6.1299e+00	6.1299e+00
154	6.1385e+00	6.1378e+00	6.1378e+00
155	6.1463e+00	6.1457e+00	6.1457e+00
156	6.1540e+00	6.1534e+00	6.1534e+00
157	6.1615e+00	6.1609e+00	6.1609e+00
158	6.1690e+00	6.1684e+00	6.1684e+00
159	6.1763e+00	6.1758e+00	6.1758e+00
160	6.1836e+00	6.1830e+00	6.1830e+00
161	6.1907e+00	6.1901e+00	6.1901e+00
162	6.1977e+00	6.1971e+00	6.1971e+00
163	6.2046e+00	6.2040e+00	6.2040e+00
164	6.2114e+00	6.2108e+00	6.2108e+00
165	6.2181e+00	6.2176e+00	6.2176e+00
166	6.2247e+00	6.2241e+00	6.2241e+00
167	6.2312e+00	6.2306e+00	6.2306e+00

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x	$A(x)$	P_{v1}	P_{v2}
168	6.2375e+00	6.2370e+00	6.2370e+00
169	6.2438e+00	6.2433e+00	6.2433e+00
170	6.2500e+00	6.2495e+00	6.2495e+00
171	6.2563e+00	6.2556e+00	6.2556e+00
172	6.2623e+00	6.2617e+00	6.2617e+00
173	6.2682e+00	6.2676e+00	6.2676e+00
174	6.2741e+00	6.2734e+00	6.2734e+00
175	6.2798e+00	6.2792e+00	6.2792e+00
176	6.2855e+00	6.2848e+00	6.2848e+00
177	6.2911e+00	6.2904e+00	6.2904e+00
178	6.2965e+00	6.2959e+00	6.2959e+00
179	6.3020e+00	6.3013e+00	6.3013e+00
180	6.3073e+00	6.3067e+00	6.3067e+00
181	6.3125e+00	6.3119e+00	6.3119e+00
182	6.3177e+00	6.3171e+00	6.3171e+00
183	6.3228e+00	6.3222e+00	6.3222e+00
184	6.3278e+00	6.3272e+00	6.3272e+00
185	6.3328e+00	6.3321e+00	6.3321e+00
186	6.3376e+00	6.3370e+00	6.3370e+00
187	6.3424e+00	6.3418e+00	6.3418e+00
188	6.3472e+00	6.3465e+00	6.3465e+00
189	6.3518e+00	6.3512e+00	6.3512e+00
190	6.3564e+00	6.3558e+00	6.3558e+00
191	6.3610e+00	6.3603e+00	6.3603e+00
192	6.3654e+00	6.3648e+00	6.3648e+00
193	6.3698e+00	6.3692e+00	6.3692e+00
194	6.3741e+00	6.3735e+00	6.3735e+00
195	6.3784e+00	6.3778e+00	6.3778e+00
196	6.3826e+00	6.3820e+00	6.3820e+00
197	6.3868e+00	6.3861e+00	6.3861e+00
198	6.3908e+00	6.3902e+00	6.3902e+00
199	6.3949e+00	6.3942e+00	6.3942e+00
200	6.3988e+00	6.3982e+00	6.3982e+00
201	6.4027e+00	6.4021e+00	6.4021e+00
202	6.4066e+00	6.4060e+00	6.4060e+00
203	6.4104e+00	6.4098e+00	6.4098e+00
204	6.4141e+00	6.4135e+00	6.4135e+00
205	6.4178e+00	6.4172e+00	6.4172e+00
206	6.4215e+00	6.4208e+00	6.4208e+00
207	6.4250e+00	6.4244e+00	6.4244e+00

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x	$A(x)$	P_{v1}	P_{v2}
208	6.4286e+00	6.4280e+00	6.4280e+00
209	6.4321e+00	6.4314e+00	6.4314e+00
210	6.4355e+00	6.4349e+00	6.4349e+00
211	6.4389e+00	6.4383e+00	6.4383e+00
212	6.4422e+00	6.4416e+00	6.4416e+00
213	6.4455e+00	6.4449e+00	6.4449e+00
214	6.4487e+00	6.4481e+00	6.4481e+00
215	6.4519e+00	6.4513e+00	6.4513e+00
216	6.4551e+00	6.4545e+00	6.4545e+00
217	6.4582e+00	6.4576e+00	6.4576e+00
218	6.4612e+00	6.4606e+00	6.4606e+00
219	6.4643e+00	6.4637e+00	6.4637e+00
220	6.4672e+00	6.4666e+00	6.4666e+00
221	6.4702e+00	6.4696e+00	6.4696e+00
222	6.4731e+00	6.4725e+00	6.4725e+00
223	6.4759e+00	6.4753e+00	6.4753e+00
224	6.4787e+00	6.4781e+00	6.4781e+00
225	6.4815e+00	6.4809e+00	6.4809e+00
226	6.4842e+00	6.4836e+00	6.4836e+00
227	6.4869e+00	6.4863e+00	6.4863e+00
228	6.4896e+00	6.4890e+00	6.4890e+00
229	6.4922e+00	6.4916e+00	6.4916e+00
230	6.4948e+00	6.4942e+00	6.4942e+00
231	6.4973e+00	6.4968e+00	6.4968e+00
232	6.4998e+00	6.4993e+00	6.4993e+00
233	6.5023e+00	6.5017e+00	6.5017e+00
234	6.5048e+00	6.5042e+00	6.5042e+00
235	6.5072e+00	6.5066e+00	6.5066e+00
236	6.5096e+00	6.5090e+00	6.5090e+00
237	6.5119e+00	6.5113e+00	6.5113e+00
238	6.5142e+00	6.5136e+00	6.5136e+00
239	6.5165e+00	6.5159e+00	6.5159e+00
240	6.5187e+00	6.5182e+00	6.5182e+00
241	6.5210e+00	6.5204e+00	6.5204e+00
242	6.5231e+00	6.5226e+00	6.5226e+00
243	6.5253e+00	6.5247e+00	6.5247e+00
244	6.5274e+00	6.5268e+00	6.5268e+00
245	6.5295e+00	6.5290e+00	6.5290e+00
246	6.5316e+00	6.5310e+00	6.5310e+00
247	6.5336e+00	6.5331e+00	6.5331e+00

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x	$A(x)$	P_{v1}	P_{v2}
248	6.5356e+00	6.5351e+00	6.5351e+00
249	6.5376e+00	6.5371e+00	6.5371e+00
250	6.5396e+00	6.5390e+00	6.5390e+00

Table B.4.38: Output for Problem 4.8-9

x	$A(x)$	P_{v1}	P_{v2}
0.0	11.000	10.992	10.992
0.2	10.983	10.983	10.983
0.6	10.947	10.947	10.947
1.0	10.908	10.906	10.906
1.5	10.865	10.861	10.861
2.0	10.818	10.812	10.812
2.6	10.767	10.758	10.758
3.2	10.713	10.701	10.701
3.9	10.654	10.640	10.640
4.7	10.593	10.575	10.575
5.5	10.528	10.508	10.508
6.4	10.461	10.440	10.440
7.4	10.393	10.372	10.372
8.5	10.326	10.306	10.306
9.8	10.261	10.244	10.244
11.1	10.201	10.188	10.188
12.6	10.147	10.139	10.139
14.2	10.102	10.098	10.098
16.0	10.065	10.065	10.065
18.0	10.038	10.041	10.041
20.2	10.020	10.024	10.024
22.6	10.009	10.013	10.013
25.2	10.004	10.007	10.007
28.1	10.001	10.003	10.003
31.3	10.000	10.001	10.001
34.8	10.000	10.000	10.000
38.6	10.000	10.000	10.000
42.8	10.000	10.000	10.000
47.5	10.000	10.000	10.000
52.6	10.000	10.000	10.000
58.2	10.000	10.000	10.000
64.4	10.000	10.000	10.000

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x	$A(x)$	P_{v1}	P_{v2}
71.3	10.000	10.000	10.000
78.8	10.000	10.000	10.000
87.0	10.000	10.000	10.000
96.1	10.000	10.000	10.000
106.0	10.000	10.000	10.000
117.0	10.000	10.000	10.000
129.1	10.000	10.000	10.000
142.4	10.000	10.000	10.000
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.39: Output for Problem 4.8-36

x	$A(x)$	P_{v1}	P_{v2}
0.0	11.000	10.996	10.996
0.2	10.991	10.992	10.992
0.6	10.974	10.974	10.974
1.0	10.954	10.955	10.955
1.5	10.932	10.934	10.934
2.0	10.908	10.910	10.910
2.6	10.882	10.885	10.885
3.2	10.854	10.856	10.856
3.9	10.823	10.825	10.825
4.7	10.789	10.791	10.791
5.5	10.752	10.754	10.754
6.4	10.712	10.714	10.714
7.4	10.669	10.671	10.671
8.5	10.623	10.624	10.624
9.8	10.574	10.574	10.574
11.1	10.523	10.522	10.522
12.6	10.469	10.467	10.467
14.2	10.413	10.410	10.410
16.0	10.357	10.353	10.353
18.0	10.301	10.296	10.296
20.2	10.246	10.240	10.240
22.6	10.195	10.188	10.188
25.2	10.148	10.141	10.141

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x	$A(x)$	P_{v1}	P_{v2}
28.1	10.106	10.101	10.101
31.3	10.072	10.068	10.068
34.8	10.046	10.043	10.043
38.6	10.026	10.025	10.025
42.8	10.014	10.013	10.013
47.5	10.006	10.006	10.006
52.6	10.002	10.003	10.003
58.2	10.001	10.001	10.001
64.4	10.000	10.000	10.000
71.3	10.000	10.000	10.000
78.8	10.000	10.000	10.000
87.0	10.000	10.000	10.000
96.1	10.000	10.000	10.000
106.0	10.000	10.000	10.000
117.0	10.000	10.000	10.000
129.1	10.000	10.000	10.000
142.4	10.000	10.000	10.000
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.40: Output for Problem 4.8-81

x	$A(x)$	P_{v1}	P_{v2}
0.0	11.000	10.997	10.997
0.2	10.994	10.995	10.995
0.6	10.982	10.983	10.983
1.0	10.969	10.970	10.970
1.5	10.955	10.956	10.956
2.0	10.939	10.941	10.941
2.6	10.921	10.923	10.923
3.2	10.902	10.905	10.905
3.9	10.881	10.884	10.884
4.7	10.858	10.861	10.861
5.5	10.833	10.836	10.836
6.4	10.806	10.809	10.809
7.4	10.776	10.780	10.780
8.5	10.743	10.747	10.747

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x	$A(x)$	P_{v1}	P_{v2}
9.8	10.708	10.712	10.712
11.1	10.670	10.674	10.674
12.6	10.629	10.632	10.632
14.2	10.585	10.588	10.588
16.0	10.539	10.541	10.541
18.0	10.490	10.491	10.491
20.2	10.439	10.439	10.439
22.6	10.387	10.386	10.386
25.2	10.334	10.332	10.332
28.1	10.282	10.278	10.278
31.3	10.231	10.226	10.226
34.8	10.183	10.177	10.177
38.6	10.139	10.132	10.132
42.8	10.101	10.094	10.094
47.5	10.069	10.063	10.063
52.6	10.044	10.039	10.039
58.2	10.026	10.023	10.023
64.4	10.013	10.012	10.012
71.3	10.006	10.006	10.006
78.8	10.003	10.002	10.002
87.0	10.001	10.001	10.001
96.1	10.000	10.000	10.000
106.0	10.000	10.000	10.000
117.0	10.000	10.000	10.000
129.1	10.000	10.000	10.000
142.4	10.000	10.000	10.000
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.41: Output for Problem 4.8-144

x	$A(x)$	P_{v1}	P_{v2}
0.0	11.000	10.998	10.998
0.2	10.996	10.996	10.996
0.6	10.987	10.987	10.987
1.0	10.977	10.978	10.978
1.5	10.966	10.967	10.967

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x	$A(x)$	P_{v1}	P_{v2}
2.0	10.954	10.955	10.955
2.6	10.941	10.943	10.943
3.2	10.927	10.929	10.929
3.9	10.911	10.913	10.913
4.7	10.894	10.896	10.896
5.5	10.875	10.877	10.877
6.4	10.854	10.857	10.857
7.4	10.831	10.834	10.834
8.5	10.806	10.810	10.810
9.8	10.779	10.783	10.783
11.1	10.749	10.753	10.753
12.6	10.717	10.721	10.721
14.2	10.682	10.686	10.686
16.0	10.645	10.649	10.649
18.0	10.605	10.608	10.608
20.2	10.562	10.565	10.565
22.6	10.517	10.518	10.518
25.2	10.469	10.470	10.470
28.1	10.420	10.419	10.419
31.3	10.369	10.367	10.367
34.8	10.318	10.314	10.314
38.6	10.267	10.262	10.262
42.8	10.218	10.212	10.212
47.5	10.172	10.165	10.165
52.6	10.130	10.123	10.123
58.2	10.094	10.087	10.087
64.4	10.064	10.057	10.057
71.3	10.040	10.035	10.035
78.8	10.024	10.020	10.020
87.0	10.012	10.010	10.010
96.1	10.006	10.005	10.005
106.0	10.002	10.002	10.002
117.0	10.001	10.001	10.001
129.1	10.000	10.000	10.000
142.4	10.000	10.000	10.000
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.42: Output for Problem 4.8-225

x	$A(x)$	P_{v1}	P_{v2}
0.0	11.000	10.998	10.998
0.2	10.997	10.997	10.997
0.6	10.989	10.990	10.990
1.0	10.982	10.982	10.982
1.5	10.973	10.974	10.974
2.0	10.963	10.964	10.964
2.6	10.953	10.954	10.954
3.2	10.941	10.943	10.943
3.9	10.929	10.930	10.930
4.7	10.915	10.917	10.917
5.5	10.900	10.902	10.902
6.4	10.883	10.885	10.885
7.4	10.864	10.867	10.867
8.5	10.844	10.847	10.847
9.8	10.822	10.826	10.826
11.1	10.798	10.802	10.802
12.6	10.772	10.776	10.776
14.2	10.743	10.747	10.747
16.0	10.712	10.716	10.716
18.0	10.679	10.683	10.683
20.2	10.643	10.646	10.646
22.6	10.604	10.607	10.607
25.2	10.562	10.565	10.565
28.1	10.518	10.520	10.520
31.3	10.472	10.473	10.473
34.8	10.424	10.423	10.423
38.6	10.375	10.372	10.372
42.8	10.325	10.321	10.321
47.5	10.275	10.269	10.269
52.6	10.226	10.219	10.219
58.2	10.180	10.172	10.172
64.4	10.138	10.129	10.129
71.3	10.101	10.092	10.092
78.8	10.070	10.062	10.062
87.0	10.045	10.039	10.039
96.1	10.027	10.022	10.022
106.0	10.015	10.012	10.012

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
117.0	10.007	10.005	10.005
129.1	10.003	10.002	10.002
142.4	10.001	10.001	10.001
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.43: Output for Problem 4.8-324

x	$A(x)$	P_{v1}	P_{v2}
0.0	11.000	10.999	10.999
0.2	10.997	10.997	10.997
0.6	10.991	10.991	10.991
1.0	10.985	10.985	10.985
1.5	10.977	10.978	10.978
2.0	10.969	10.970	10.970
2.6	10.961	10.962	10.962
3.2	10.951	10.952	10.952
3.9	10.941	10.942	10.942
4.7	10.929	10.931	10.931
5.5	10.916	10.918	10.918
6.4	10.902	10.904	10.904
7.4	10.887	10.889	10.889
8.5	10.870	10.873	10.873
9.8	10.852	10.854	10.854
11.1	10.831	10.834	10.834
12.6	10.809	10.813	10.813
14.2	10.785	10.789	10.789
16.0	10.759	10.762	10.762
18.0	10.730	10.734	10.734
20.2	10.699	10.703	10.703
22.6	10.665	10.669	10.669
25.2	10.629	10.632	10.632
28.1	10.590	10.593	10.593
31.3	10.549	10.551	10.551
34.8	10.505	10.506	10.506
38.6	10.459	10.459	10.459
42.8	10.412	10.410	10.410

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x	$A(x)$	P_{v1}	P_{v2}
47.5	10.363	10.359	10.359
52.6	10.313	10.308	10.308
58.2	10.264	10.257	10.257
64.4	10.217	10.208	10.208
71.3	10.172	10.162	10.162
78.8	10.131	10.121	10.121
87.0	10.095	10.085	10.085
96.1	10.066	10.056	10.056
106.0	10.042	10.035	10.035
117.0	10.025	10.019	10.019
129.1	10.013	10.010	10.010
142.4	10.006	10.004	10.004
157.0	10.003	10.002	10.002
173.1	10.001	10.001	10.001
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.44: Output for Problem 4.9-9

x	$A(x)$	P_{v1}	P_{v2}
0.0	9.000	9.011	9.011
0.2	9.018	9.022	9.022
0.6	9.056	9.065	9.065
1.0	9.097	9.113	9.113
1.5	9.142	9.163	9.163
2.0	9.191	9.217	9.217
2.6	9.244	9.275	9.275
3.2	9.301	9.336	9.336
3.9	9.362	9.399	9.399
4.7	9.426	9.465	9.465
5.5	9.493	9.531	9.531
6.4	9.562	9.598	9.598
7.4	9.631	9.663	9.663
8.5	9.698	9.724	9.724
9.8	9.762	9.782	9.782
11.1	9.821	9.833	9.833
12.6	9.872	9.877	9.877
14.2	9.915	9.913	9.913
16.0	9.947	9.942	9.942

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
18.0	9.970	9.963	9.963
20.2	9.985	9.978	9.978
22.6	9.994	9.988	9.988
25.2	9.998	9.994	9.994
28.1	9.999	9.997	9.997
31.3	10.000	9.999	9.999
34.8	10.000	10.000	10.000
38.6	10.000	10.000	10.000
42.8	10.000	10.000	10.000
47.5	10.000	10.000	10.000
52.6	10.000	10.000	10.000
58.2	10.000	10.000	10.000
64.4	10.000	10.000	10.000
71.3	10.000	10.000	10.000
78.8	10.000	10.000	10.000
87.0	10.000	10.000	10.000
96.1	10.000	10.000	10.000
106.0	10.000	10.000	10.000
117.0	10.000	10.000	10.000
129.1	10.000	10.000	10.000
142.4	10.000	10.000	10.000
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.45: Output for Problem 4.9-36

x	$A(x)$	P_{v1}	P_{v2}
0.0	9.000	9.005	9.005
0.2	9.009	9.010	9.010
0.6	9.028	9.031	9.031
1.0	9.049	9.053	9.053
1.5	9.071	9.078	9.078
2.0	9.096	9.104	9.104
2.6	9.124	9.133	9.133
3.2	9.153	9.165	9.165
3.9	9.186	9.199	9.199
4.7	9.222	9.236	9.236

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
5.5	9.260	9.276	9.276
6.4	9.302	9.319	9.319
7.4	9.346	9.365	9.365
8.5	9.394	9.413	9.413
9.8	9.445	9.464	9.464
11.1	9.498	9.517	9.517
12.6	9.554	9.571	9.571
14.2	9.610	9.626	9.626
16.0	9.667	9.681	9.681
18.0	9.723	9.734	9.734
20.2	9.777	9.785	9.785
22.6	9.827	9.832	9.832
25.2	9.872	9.874	9.874
28.1	9.910	9.910	9.910
31.3	9.941	9.939	9.939
34.8	9.964	9.961	9.961
38.6	9.980	9.977	9.977
42.8	9.990	9.988	9.988
47.5	9.996	9.994	9.994
52.6	9.999	9.997	9.997
58.2	10.000	9.999	9.999
64.4	10.000	10.000	10.000
71.3	10.000	10.000	10.000
78.8	10.000	10.000	10.000
87.0	10.000	10.000	10.000
96.1	10.000	10.000	10.000
106.0	10.000	10.000	10.000
117.0	10.000	10.000	10.000
129.1	10.000	10.000	10.000
142.4	10.000	10.000	10.000
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.46: Output for Problem 4.9-81

x	$A(x)$	P_{v1}	P_{v2}
0.0	9.000	9.003	9.003

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x	$A(x)$	P_{v1}	P_{v2}
0.2	9.006	9.007	9.007
0.6	9.019	9.020	9.020
1.0	9.032	9.035	9.035
1.5	9.048	9.051	9.051
2.0	9.064	9.069	9.069
2.6	9.083	9.089	9.089
3.2	9.103	9.110	9.110
3.9	9.125	9.133	9.133
4.7	9.149	9.159	9.159
5.5	9.175	9.186	9.186
6.4	9.204	9.216	9.216
7.4	9.235	9.249	9.249
8.5	9.269	9.284	9.284
9.8	9.306	9.321	9.321
11.1	9.346	9.362	9.362
12.6	9.388	9.405	9.405
14.2	9.434	9.450	9.450
16.0	9.482	9.497	9.497
18.0	9.532	9.547	9.547
20.2	9.584	9.597	9.597
22.6	9.637	9.649	9.649
25.2	9.690	9.700	9.700
28.1	9.742	9.750	9.750
31.3	9.792	9.798	9.798
34.8	9.839	9.842	9.842
38.6	9.880	9.881	9.881
42.8	9.916	9.915	9.915
47.5	9.944	9.942	9.942
52.6	9.966	9.964	9.964
58.2	9.981	9.979	9.979
64.4	9.991	9.989	9.989
71.3	9.996	9.995	9.995
78.8	9.998	9.998	9.998
87.0	10.000	9.999	9.999
96.1	10.000	10.000	10.000
106.0	10.000	10.000	10.000
117.0	10.000	10.000	10.000
129.1	10.000	10.000	10.000
142.4	10.000	10.000	10.000
157.0	10.000	10.000	10.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.47: Output for Problem 4.9-144

x	$A(x)$	P_{v1}	P_{v2}
0.0	9.000	9.002	9.002
0.2	9.004	9.005	9.005
0.6	9.014	9.015	9.015
1.0	9.024	9.026	9.026
1.5	9.036	9.039	9.039
2.0	9.048	9.052	9.052
2.6	9.062	9.067	9.067
3.2	9.077	9.083	9.083
3.9	9.094	9.101	9.101
4.7	9.112	9.120	9.120
5.5	9.132	9.141	9.141
6.4	9.154	9.164	9.164
7.4	9.178	9.189	9.189
8.5	9.204	9.216	9.216
9.8	9.232	9.246	9.246
11.1	9.263	9.278	9.278
12.6	9.297	9.312	9.312
14.2	9.333	9.348	9.348
16.0	9.372	9.388	9.388
18.0	9.414	9.430	9.430
20.2	9.458	9.474	9.474
22.6	9.505	9.520	9.520
25.2	9.554	9.567	9.567
28.1	9.604	9.616	9.616
31.3	9.655	9.666	9.666
34.8	9.707	9.715	9.715
38.6	9.757	9.763	9.763
42.8	9.805	9.809	9.809
47.5	9.849	9.851	9.851
52.6	9.888	9.889	9.889
58.2	9.922	9.921	9.921
64.4	9.949	9.947	9.947

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x	$A(x)$	P_{v1}	P_{v2}
71.3	9.969	9.967	9.967
78.8	9.983	9.981	9.981
87.0	9.991	9.990	9.990
96.1	9.996	9.995	9.995
106.0	9.999	9.998	9.998
117.0	10.000	9.999	9.999
129.1	10.000	10.000	10.000
142.4	10.000	10.000	10.000
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.48: Output for Problem 4.9-225

x	$A(x)$	P_{v1}	P_{v2}
0.0	9.000	9.002	9.002
0.2	9.004	9.004	9.004
0.6	9.011	9.012	9.012
1.0	9.019	9.021	9.021
1.5	9.029	9.031	9.031
2.0	9.039	9.042	9.042
2.6	9.050	9.054	9.054
3.2	9.062	9.067	9.067
3.9	9.075	9.081	9.081
4.7	9.090	9.096	9.096
5.5	9.106	9.114	9.114
6.4	9.123	9.132	9.132
7.4	9.142	9.152	9.152
8.5	9.164	9.175	9.175
9.8	9.187	9.199	9.199
11.1	9.212	9.225	9.225
12.6	9.239	9.253	9.253
14.2	9.269	9.284	9.284
16.0	9.302	9.317	9.317
18.0	9.337	9.353	9.353
20.2	9.374	9.391	9.391
22.6	9.415	9.431	9.431
25.2	9.458	9.474	9.474

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x	$A(x)$	P_{v1}	P_{v2}
28.1	9.503	9.518	9.518
31.3	9.550	9.564	9.564
34.8	9.599	9.612	9.612
38.6	9.649	9.660	9.660
42.8	9.700	9.709	9.709
47.5	9.749	9.756	9.756
52.6	9.797	9.801	9.801
58.2	9.841	9.844	9.844
64.4	9.881	9.882	9.882
71.3	9.915	9.915	9.915
78.8	9.943	9.942	9.942
87.0	9.965	9.963	9.963
96.1	9.980	9.978	9.978
106.0	9.990	9.988	9.988
117.0	9.995	9.994	9.994
129.1	9.998	9.998	9.998
142.4	9.999	9.999	9.999
157.0	10.000	10.000	10.000
173.1	10.000	10.000	10.000
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.49: Output for Problem 4.9-324

x	$A(x)$	P_{v1}	P_{v2}
0.0	9.000	9.002	9.002
0.2	9.003	9.003	9.003
0.6	9.009	9.010	9.010
1.0	9.016	9.018	9.018
1.5	9.024	9.026	9.026
2.0	9.032	9.035	9.035
2.6	9.041	9.045	9.045
3.2	9.051	9.056	9.056
3.9	9.063	9.068	9.068
4.7	9.075	9.081	9.081
5.5	9.088	9.095	9.095
6.4	9.103	9.111	9.111
7.4	9.119	9.128	9.128
8.5	9.137	9.147	9.147

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x	$A(x)$	P_{v1}	P_{v2}
9.8	9.156	9.167	9.167
11.1	9.177	9.190	9.190
12.6	9.200	9.214	9.214
14.2	9.226	9.240	9.240
16.0	9.253	9.269	9.269
18.0	9.283	9.299	9.299
20.2	9.316	9.332	9.332
22.6	9.351	9.368	9.368
25.2	9.388	9.406	9.406
28.1	9.428	9.446	9.446
31.3	9.471	9.488	9.488
34.8	9.516	9.532	9.532
38.6	9.563	9.578	9.578
42.8	9.612	9.625	9.625
47.5	9.661	9.672	9.672
52.6	9.711	9.720	9.720
58.2	9.759	9.766	9.766
64.4	9.806	9.810	9.810
71.3	9.849	9.851	9.851
78.8	9.887	9.888	9.888
87.0	9.920	9.920	9.920
96.1	9.947	9.946	9.946
106.0	9.967	9.966	9.966
117.0	9.982	9.980	9.980
129.1	9.991	9.989	9.989
142.4	9.996	9.995	9.995
157.0	9.998	9.998	9.998
173.1	10.000	9.999	9.999
190.7	10.000	10.000	10.000
200.0	10.000	10.000	10.000

Table B.4.50: Output for Problem 4.10-csc

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.750	0.750	0.750
0.2	0.750	0.750	0.750
0.4	0.750	0.750	0.750
0.6	0.750	0.750	0.750
0.8	0.750	0.750	0.750

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
1.0	0.750	0.750	0.750
1.2	0.750	0.750	0.750
1.4	0.750	0.750	0.750
1.6	0.750	0.750	0.750
1.8	0.750	0.750	0.750
2.0	0.750	0.750	0.750
2.2	0.750	0.750	0.750
2.4	0.750	0.750	0.750
2.6	0.750	0.750	0.750
2.8	0.750	0.750	0.750
3.0	0.750	0.750	0.750
3.2	0.750	0.750	0.750
3.4	0.750	0.750	0.750
3.6	0.750	0.750	0.750
3.8	0.750	0.750	0.750
4.0	0.750	0.750	0.750
4.2	0.750	0.750	0.750
4.4	0.750	0.750	0.750
4.6	0.750	0.750	0.750
4.8	0.750	0.750	0.750
5.0	0.750	0.750	0.750
5.2	0.750	0.750	0.750
5.4	0.750	0.750	0.750
5.6	0.750	0.750	0.750
5.8	0.750	0.750	0.750
6.0	0.750	0.750	0.750
6.2	0.750	0.750	0.750
6.4	0.750	0.750	0.750
6.6	0.750	0.750	0.750
6.8	0.750	0.750	0.750
7.0	0.750	0.750	0.750
7.2	0.750	0.750	0.750
7.4	0.750	0.750	0.750
7.6	0.750	0.750	0.750
7.8	0.750	0.750	0.750
8.0	0.750	0.750	0.750
8.2	0.750	0.750	0.750
8.4	0.750	0.750	0.750
8.6	0.750	0.750	0.750
8.8	0.750	0.750	0.750

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
9.0	0.750	0.750	0.750
9.2	0.750	0.750	0.750
9.4	0.750	0.750	0.750
9.6	0.750	0.750	0.750
9.8	0.750	0.750	0.750
10.0	0.750	0.750	0.750
10.2	0.750	0.750	0.750
10.4	0.750	0.750	0.750
10.6	0.750	0.750	0.750
10.8	0.750	0.750	0.750
11.0	0.750	0.750	0.750
11.2	0.750	0.750	0.750
11.4	0.750	0.750	0.750
11.6	0.750	0.750	0.750
11.8	0.750	0.750	0.750
12.0	0.750	0.750	0.750
12.2	0.750	0.750	0.750
12.4	0.750	0.750	0.750
12.6	0.750	0.750	0.750
12.8	0.750	0.750	0.750
13.0	0.750	0.750	0.750
13.2	0.750	0.750	0.750
13.4	0.750	0.750	0.750
13.6	0.750	0.750	0.750
13.8	0.750	0.750	0.750
14.0	0.750	0.750	0.750
14.2	0.750	0.750	0.750
14.4	0.750	0.750	0.750
14.6	0.750	0.750	0.750
14.8	0.750	0.750	0.750
15.0	0.750	0.750	0.750
15.2	0.750	0.750	0.750
15.4	0.750	0.750	0.750
15.6	0.750	0.750	0.750
15.8	0.750	0.750	0.750
16.0	0.750	0.750	0.750
16.2	0.750	0.750	0.750
16.4	0.750	0.750	0.750
16.6	0.750	0.750	0.750
16.8	0.750	0.750	0.750

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
17.0	0.750	0.750	0.750
17.2	0.750	0.750	0.750
17.4	0.750	0.750	0.750
17.6	0.750	0.750	0.750
17.8	0.750	0.750	0.750
18.0	0.750	0.750	0.750
18.2	0.750	0.750	0.750
18.4	0.750	0.750	0.750
18.6	0.750	0.750	0.750
18.8	0.750	0.750	0.750
19.0	0.750	0.750	0.750
19.2	0.750	0.750	0.750
19.4	0.750	0.750	0.750
19.6	0.750	0.750	0.750
19.8	0.750	0.750	0.750
20.0	0.750	0.750	0.750
20.2	0.750	0.750	0.750
20.4	0.750	0.750	0.750
20.6	0.750	0.750	0.750
20.8	0.750	0.750	0.750
21.0	0.750	0.750	0.750
21.2	0.750	0.750	0.750
21.4	0.750	0.750	0.750
21.6	0.750	0.750	0.750
21.8	0.750	0.750	0.750
22.0	0.750	0.750	0.750
22.2	0.750	0.750	0.750
22.4	0.750	0.750	0.750
22.6	0.750	0.750	0.750
22.8	0.750	0.750	0.750
23.0	0.750	0.750	0.750
23.2	0.750	0.750	0.750
23.4	0.750	0.750	0.750
23.6	0.750	0.750	0.750
23.8	0.750	0.750	0.750
24.0	0.750	0.750	0.750
24.2	0.750	0.750	0.750
24.4	0.750	0.750	0.750
24.6	0.750	0.750	0.750
24.8	0.750	0.750	0.750

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
25.0	0.750	0.750	0.750
25.2	0.750	0.750	0.750
25.4	0.750	0.750	0.750
25.6	0.750	0.750	0.750
25.8	0.750	0.750	0.750
26.0	0.750	0.750	0.750
26.2	0.750	0.750	0.750
26.4	0.750	0.750	0.750
26.6	0.750	0.750	0.750
26.8	0.750	0.750	0.750
27.0	0.750	0.750	0.750
27.2	0.750	0.750	0.750
27.4	0.750	0.750	0.750
27.6	0.750	0.750	0.750
27.8	0.750	0.750	0.750
28.0	0.750	0.750	0.750
28.2	0.750	0.750	0.750
28.4	0.750	0.750	0.750
28.6	0.750	0.750	0.750
28.8	0.750	0.750	0.750
29.0	0.750	0.750	0.750
29.2	0.750	0.750	0.750
29.4	0.750	0.750	0.750
29.6	0.750	0.750	0.750
29.8	0.750	0.750	0.750
30.0	0.750	0.750	0.750
30.2	0.750	0.750	0.750
30.4	0.750	0.750	0.750
30.6	0.750	0.750	0.750
30.8	0.750	0.750	0.750
31.0	0.750	0.750	0.750
31.2	0.750	0.750	0.750
31.4	0.750	0.750	0.750
31.6	0.750	0.750	0.750
31.8	0.750	0.750	0.750
32.0	0.750	0.750	0.750
32.2	0.750	0.750	0.750
32.4	0.750	0.750	0.750
32.6	0.750	0.750	0.750
32.8	0.750	0.750	0.750

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
33.0	0.750	0.750	0.750
33.2	0.750	0.750	0.750
33.4	0.750	0.750	0.750
33.6	0.750	0.750	0.750
33.8	0.750	0.750	0.750
34.0	0.750	0.750	0.750
34.2	0.750	0.750	0.750
34.4	0.750	0.750	0.750
34.6	0.750	0.750	0.750
34.8	0.750	0.750	0.750
35.0	0.750	0.750	0.750
35.2	0.750	0.750	0.750
35.4	0.750	0.750	0.750
35.6	0.750	0.750	0.750
35.8	0.750	0.750	0.750
36.0	0.750	0.750	0.750
36.2	0.750	0.750	0.750
36.4	0.750	0.750	0.750
36.6	0.750	0.750	0.750
36.8	0.750	0.750	0.750
37.0	0.750	0.750	0.750
37.2	0.750	0.750	0.750
37.4	0.750	0.750	0.750
37.6	0.750	0.750	0.750
37.8	0.750	0.750	0.750
38.0	0.750	0.750	0.750
38.2	0.750	0.750	0.750
38.4	0.750	0.750	0.750
38.6	0.750	0.750	0.750
38.8	0.750	0.750	0.750
39.0	0.750	0.750	0.750
39.2	0.750	0.750	0.750
39.4	0.750	0.750	0.750
39.6	0.750	0.750	0.750
39.8	0.750	0.750	0.750
40.0	0.750	0.750	0.750
40.2	0.750	0.750	0.750
40.4	0.750	0.750	0.750
40.6	0.750	0.750	0.750
40.8	0.750	0.750	0.750

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
41.0	0.750	0.750	0.750
41.2	0.750	0.750	0.750
41.4	0.750	0.750	0.750
41.6	0.750	0.750	0.750
41.8	0.750	0.750	0.750
42.0	0.750	0.750	0.750
42.2	0.750	0.750	0.750
42.4	0.750	0.750	0.750
42.6	0.750	0.750	0.750
42.8	0.750	0.750	0.750
43.0	0.750	0.750	0.750
43.2	0.750	0.750	0.750
43.4	0.750	0.750	0.750
43.6	0.750	0.750	0.750
43.8	0.750	0.750	0.750
44.0	0.750	0.750	0.750
44.2	0.750	0.750	0.750
44.4	0.750	0.750	0.750
44.6	0.750	0.750	0.750
44.8	0.750	0.750	0.750
45.0	0.750	0.750	0.750
45.2	0.750	0.750	0.750
45.4	0.750	0.750	0.750
45.6	0.750	0.750	0.750
45.8	0.750	0.750	0.750
46.0	0.750	0.750	0.750
46.2	0.750	0.750	0.750
46.4	0.750	0.750	0.750
46.6	0.750	0.750	0.750
46.8	0.750	0.750	0.750
47.0	0.750	0.750	0.750
47.2	0.750	0.750	0.750
47.4	0.750	0.750	0.750
47.6	0.750	0.750	0.750
47.8	0.750	0.750	0.750
48.0	0.750	0.750	0.750
48.2	0.750	0.750	0.750
48.4	0.750	0.750	0.750
48.6	0.750	0.750	0.750
48.8	0.750	0.750	0.750

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
49.0	0.750	0.750	0.750
49.2	0.750	0.750	0.750
49.4	0.750	0.750	0.750
49.6	0.750	0.750	0.750
49.8	0.750	0.750	0.750
50.0	0.750	0.750	0.750

Table B.4.51: Output for Problem 4.10-csc-U

x	$A(x)$	P_{v1}	P_{v2}
0.0	-0.007	-0.007	-0.007
0.2	-0.007	-0.007	-0.007
0.4	-0.007	-0.007	-0.007
0.6	-0.007	-0.007	-0.007
0.8	-0.007	-0.007	-0.007
1.0	-0.007	-0.007	-0.007
1.2	-0.007	-0.007	-0.007
1.4	-0.007	-0.007	-0.007
1.6	-0.007	-0.007	-0.007
1.8	-0.007	-0.007	-0.007
2.0	-0.007	-0.007	-0.007
2.2	-0.007	-0.007	-0.007
2.4	-0.007	-0.007	-0.007
2.6	-0.007	-0.007	-0.007
2.8	-0.007	-0.007	-0.007
3.0	-0.007	-0.007	-0.007
3.2	-0.007	-0.007	-0.007
3.4	-0.007	-0.007	-0.007
3.6	-0.007	-0.007	-0.007
3.8	-0.007	-0.007	-0.007
4.0	-0.007	-0.007	-0.007
4.2	-0.007	-0.007	-0.007
4.4	-0.007	-0.007	-0.007
4.6	-0.007	-0.007	-0.007
4.8	-0.007	-0.007	-0.007
5.0	-0.007	-0.007	-0.007
5.2	-0.007	-0.007	-0.007
5.4	-0.007	-0.007	-0.007
5.6	-0.007	-0.007	-0.007

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
5.8	-0.007	-0.007	-0.007
6.0	-0.007	-0.007	-0.007
6.2	-0.007	-0.007	-0.007
6.4	-0.007	-0.007	-0.007
6.6	-0.007	-0.007	-0.007
6.8	-0.007	-0.007	-0.007
7.0	-0.007	-0.007	-0.007
7.2	-0.007	-0.007	-0.007
7.4	-0.007	-0.007	-0.007
7.6	-0.007	-0.007	-0.007
7.8	-0.007	-0.007	-0.007
8.0	-0.007	-0.007	-0.007
8.2	-0.007	-0.007	-0.007
8.4	-0.007	-0.007	-0.007
8.6	-0.007	-0.007	-0.007
8.8	-0.007	-0.007	-0.007
9.0	-0.007	-0.007	-0.007
9.2	-0.007	-0.007	-0.007
9.4	-0.007	-0.007	-0.007
9.6	-0.007	-0.007	-0.007
9.8	-0.007	-0.007	-0.007
10.0	-0.007	-0.007	-0.007
10.2	-0.007	-0.007	-0.007
10.4	-0.007	-0.007	-0.007
10.6	-0.007	-0.007	-0.007
10.8	-0.007	-0.007	-0.007
11.0	-0.007	-0.007	-0.007
11.2	-0.007	-0.007	-0.007
11.4	-0.007	-0.007	-0.007
11.6	-0.007	-0.007	-0.007
11.8	-0.007	-0.007	-0.007
12.0	-0.007	-0.007	-0.007
12.2	-0.007	-0.007	-0.007
12.4	-0.007	-0.007	-0.007
12.6	-0.007	-0.007	-0.007
12.8	-0.007	-0.007	-0.007
13.0	-0.007	-0.007	-0.007
13.2	-0.007	-0.007	-0.007
13.4	-0.007	-0.007	-0.007
13.6	-0.007	-0.007	-0.007

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
13.8	-0.007	-0.007	-0.007
14.0	-0.007	-0.007	-0.007
14.2	-0.007	-0.007	-0.007
14.4	-0.007	-0.007	-0.007
14.6	-0.007	-0.007	-0.007
14.8	-0.007	-0.007	-0.007
15.0	-0.007	-0.007	-0.007
15.2	-0.007	-0.007	-0.007
15.4	-0.007	-0.007	-0.007
15.6	-0.007	-0.007	-0.007
15.8	-0.007	-0.007	-0.007
16.0	-0.007	-0.007	-0.007
16.2	-0.007	-0.007	-0.007
16.4	-0.007	-0.007	-0.007
16.6	-0.007	-0.007	-0.007
16.8	-0.007	-0.007	-0.007
17.0	-0.007	-0.007	-0.007
17.2	-0.007	-0.007	-0.007
17.4	-0.007	-0.007	-0.007
17.6	-0.007	-0.007	-0.007
17.8	-0.007	-0.007	-0.007
18.0	-0.007	-0.007	-0.007
18.2	-0.007	-0.007	-0.007
18.4	-0.007	-0.007	-0.007
18.6	-0.007	-0.007	-0.007
18.8	-0.007	-0.007	-0.007
19.0	-0.007	-0.007	-0.007
19.2	-0.007	-0.007	-0.007
19.4	-0.007	-0.007	-0.007
19.6	-0.007	-0.007	-0.007
19.8	-0.007	-0.007	-0.007
20.0	-0.007	-0.007	-0.007
20.2	-0.007	-0.007	-0.007
20.4	-0.007	-0.007	-0.007
20.6	-0.007	-0.007	-0.007
20.8	-0.007	-0.007	-0.007
21.0	-0.007	-0.007	-0.007
21.2	-0.007	-0.007	-0.007
21.4	-0.007	-0.007	-0.007
21.6	-0.007	-0.007	-0.007

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
21.8	-0.007	-0.007	-0.007
22.0	-0.007	-0.007	-0.007
22.2	-0.007	-0.007	-0.007
22.4	-0.007	-0.007	-0.007
22.6	-0.007	-0.007	-0.007
22.8	-0.007	-0.007	-0.007
23.0	-0.007	-0.007	-0.007
23.2	-0.007	-0.007	-0.007
23.4	-0.007	-0.007	-0.007
23.6	-0.007	-0.007	-0.007
23.8	-0.007	-0.007	-0.007
24.0	-0.007	-0.007	-0.007
24.2	-0.007	-0.007	-0.007
24.4	-0.007	-0.007	-0.007
24.6	-0.007	-0.007	-0.007
24.8	-0.007	-0.007	-0.007
25.0	-0.007	-0.007	-0.007
25.2	-0.007	-0.007	-0.007
25.4	-0.007	-0.007	-0.007
25.6	-0.007	-0.007	-0.007
25.8	-0.007	-0.007	-0.007
26.0	-0.007	-0.007	-0.007
26.2	-0.007	-0.007	-0.007
26.4	-0.007	-0.007	-0.007
26.6	-0.007	-0.007	-0.007
26.8	-0.007	-0.007	-0.007
27.0	-0.007	-0.007	-0.007
27.2	-0.007	-0.007	-0.007
27.4	-0.007	-0.007	-0.007
27.6	-0.007	-0.007	-0.007
27.8	-0.007	-0.007	-0.007
28.0	-0.007	-0.007	-0.007
28.2	-0.007	-0.007	-0.007
28.4	-0.007	-0.007	-0.007
28.6	-0.007	-0.007	-0.007
28.8	-0.007	-0.007	-0.007
29.0	-0.007	-0.007	-0.007
29.2	-0.007	-0.007	-0.007
29.4	-0.007	-0.007	-0.007
29.6	-0.007	-0.007	-0.007

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
29.8	-0.007	-0.007	-0.007
30.0	-0.007	-0.007	-0.007
30.2	-0.007	-0.007	-0.007
30.4	-0.007	-0.007	-0.007
30.6	-0.007	-0.007	-0.007
30.8	-0.007	-0.007	-0.007
31.0	-0.007	-0.007	-0.007
31.2	-0.007	-0.007	-0.007
31.4	-0.007	-0.007	-0.007
31.6	-0.007	-0.007	-0.007
31.8	-0.007	-0.007	-0.007
32.0	-0.007	-0.007	-0.007
32.2	-0.007	-0.007	-0.007
32.4	-0.007	-0.007	-0.007
32.6	-0.007	-0.007	-0.007
32.8	-0.007	-0.007	-0.007
33.0	-0.007	-0.007	-0.007
33.2	-0.007	-0.007	-0.007
33.4	-0.007	-0.007	-0.007
33.6	-0.007	-0.007	-0.007
33.8	-0.007	-0.007	-0.007
34.0	-0.007	-0.007	-0.007
34.2	-0.007	-0.007	-0.007
34.4	-0.007	-0.007	-0.007
34.6	-0.007	-0.007	-0.007
34.8	-0.007	-0.007	-0.007
35.0	-0.007	-0.007	-0.007
35.2	-0.007	-0.007	-0.007
35.4	-0.007	-0.007	-0.007
35.6	-0.007	-0.007	-0.007
35.8	-0.007	-0.007	-0.007
36.0	-0.007	-0.007	-0.007
36.2	-0.007	-0.007	-0.007
36.4	-0.007	-0.007	-0.007
36.6	-0.007	-0.007	-0.007
36.8	-0.007	-0.007	-0.007
37.0	-0.007	-0.007	-0.007
37.2	-0.007	-0.007	-0.007
37.4	-0.007	-0.007	-0.007
37.6	-0.007	-0.007	-0.007

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
37.8	-0.007	-0.007	-0.007
38.0	-0.007	-0.007	-0.007
38.2	-0.007	-0.007	-0.007
38.4	-0.007	-0.007	-0.007
38.6	-0.007	-0.007	-0.007
38.8	-0.007	-0.007	-0.007
39.0	-0.007	-0.007	-0.007
39.2	-0.007	-0.007	-0.007
39.4	-0.007	-0.007	-0.007
39.6	-0.007	-0.007	-0.007
39.8	-0.007	-0.007	-0.007
40.0	-0.007	-0.007	-0.007
40.2	-0.007	-0.007	-0.007
40.4	-0.007	-0.007	-0.007
40.6	-0.007	-0.007	-0.007
40.8	-0.007	-0.007	-0.007
41.0	-0.007	-0.007	-0.007
41.2	-0.007	-0.007	-0.007
41.4	-0.007	-0.007	-0.007
41.6	-0.007	-0.007	-0.007
41.8	-0.007	-0.007	-0.007
42.0	-0.007	-0.007	-0.007
42.2	-0.007	-0.007	-0.007
42.4	-0.007	-0.007	-0.007
42.6	-0.007	-0.007	-0.007
42.8	-0.007	-0.007	-0.007
43.0	-0.007	-0.007	-0.007
43.2	-0.007	-0.007	-0.007
43.4	-0.007	-0.007	-0.007
43.6	-0.007	-0.007	-0.007
43.8	-0.007	-0.007	-0.007
44.0	-0.007	-0.007	-0.007
44.2	-0.007	-0.007	-0.007
44.4	-0.007	-0.007	-0.007
44.6	-0.007	-0.007	-0.007
44.8	-0.007	-0.007	-0.007
45.0	-0.007	-0.007	-0.007
45.2	-0.007	-0.007	-0.007
45.4	-0.007	-0.007	-0.007
45.6	-0.007	-0.007	-0.007

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
45.8	-0.007	-0.007	-0.007
46.0	-0.007	-0.007	-0.007
46.2	-0.007	-0.007	-0.007
46.4	-0.007	-0.007	-0.007
46.6	-0.007	-0.007	-0.007
46.8	-0.007	-0.007	-0.007
47.0	-0.007	-0.007	-0.007
47.2	-0.007	-0.007	-0.007
47.4	-0.007	-0.007	-0.007
47.6	-0.007	-0.007	-0.007
47.8	-0.007	-0.007	-0.007
48.0	-0.007	-0.007	-0.007
48.2	-0.007	-0.007	-0.007
48.4	-0.007	-0.007	-0.007
48.6	-0.007	-0.007	-0.007
48.8	-0.007	-0.007	-0.007
49.0	-0.007	-0.007	-0.007
49.2	-0.007	-0.007	-0.007
49.4	-0.007	-0.007	-0.007
49.6	-0.007	-0.007	-0.007
49.8	-0.007	-0.007	-0.007
50.0	-0.007	-0.007	-0.007

Table B.4.52: Output for Problem 4.10-wrc

x	$A(x)$	P_{v1}	P_{v2}
0.0	1.000	1.000	1.000
0.2	1.000	1.000	1.000
0.4	0.999	0.999	0.999
0.6	0.998	0.998	0.998
0.8	0.997	0.997	0.997
1.0	0.995	0.995	0.995
1.2	0.993	0.993	0.993
1.4	0.990	0.990	0.990
1.6	0.987	0.987	0.987
1.8	0.984	0.984	0.984
2.0	0.980	0.980	0.980
2.2	0.976	0.976	0.976
2.4	0.971	0.971	0.971

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
2.6	0.966	0.966	0.966
2.8	0.961	0.961	0.961
3.0	0.956	0.956	0.956
3.2	0.950	0.950	0.950
3.4	0.945	0.945	0.945
3.6	0.939	0.939	0.939
3.8	0.932	0.932	0.932
4.0	0.926	0.926	0.926
4.2	0.920	0.920	0.920
4.4	0.913	0.913	0.913
4.6	0.906	0.906	0.906
4.8	0.899	0.899	0.899
5.0	0.893	0.893	0.893
5.2	0.886	0.886	0.886
5.4	0.879	0.879	0.879
5.6	0.872	0.872	0.872
5.8	0.865	0.865	0.865
6.0	0.858	0.858	0.858
6.2	0.851	0.851	0.851
6.4	0.844	0.844	0.844
6.6	0.837	0.837	0.837
6.8	0.831	0.831	0.831
7.0	0.824	0.824	0.824
7.2	0.817	0.817	0.817
7.4	0.811	0.811	0.811
7.6	0.804	0.804	0.804
7.8	0.798	0.798	0.798
8.0	0.791	0.791	0.791
8.2	0.785	0.785	0.785
8.4	0.779	0.779	0.779
8.6	0.773	0.773	0.773
8.8	0.767	0.767	0.767
9.0	0.761	0.761	0.761
9.2	0.755	0.755	0.755
9.4	0.749	0.749	0.749
9.6	0.744	0.744	0.744
9.8	0.738	0.738	0.738
10.0	0.733	0.733	0.733
10.2	0.728	0.728	0.728
10.4	0.722	0.722	0.722

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10.6	0.717	0.717	0.717
10.8	0.712	0.712	0.712
11.0	0.707	0.707	0.707
11.2	0.702	0.702	0.702
11.4	0.698	0.698	0.698
11.6	0.693	0.693	0.693
11.8	0.688	0.688	0.688
12.0	0.684	0.684	0.684
12.2	0.680	0.680	0.680
12.4	0.675	0.675	0.675
12.6	0.671	0.671	0.671
12.8	0.667	0.667	0.667
13.0	0.663	0.663	0.663
13.2	0.659	0.659	0.659
13.4	0.655	0.655	0.655
13.6	0.651	0.651	0.651
13.8	0.647	0.647	0.647
14.0	0.644	0.644	0.644
14.2	0.640	0.640	0.640
14.4	0.636	0.636	0.636
14.6	0.633	0.633	0.633
14.8	0.629	0.629	0.629
15.0	0.626	0.626	0.626
15.2	0.623	0.623	0.623
15.4	0.620	0.620	0.620
15.6	0.616	0.616	0.616
15.8	0.613	0.613	0.613
16.0	0.610	0.610	0.610
16.2	0.607	0.607	0.607
16.4	0.604	0.604	0.604
16.6	0.601	0.601	0.601
16.8	0.599	0.599	0.599
17.0	0.596	0.596	0.596
17.2	0.593	0.593	0.593
17.4	0.590	0.590	0.590
17.6	0.588	0.588	0.588
17.8	0.585	0.585	0.585
18.0	0.583	0.583	0.583
18.2	0.580	0.580	0.580
18.4	0.578	0.578	0.578

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
18.6	0.575	0.575	0.575
18.8	0.573	0.573	0.573
19.0	0.570	0.570	0.570
19.2	0.568	0.568	0.568
19.4	0.566	0.566	0.566
19.6	0.564	0.564	0.564
19.8	0.562	0.562	0.562
20.0	0.559	0.559	0.559
20.2	0.557	0.557	0.557
20.4	0.555	0.555	0.555
20.6	0.553	0.553	0.553
20.8	0.551	0.551	0.551
21.0	0.549	0.549	0.549
21.2	0.547	0.547	0.547
21.4	0.545	0.545	0.545
21.6	0.543	0.543	0.543
21.8	0.542	0.542	0.542
22.0	0.540	0.540	0.540
22.2	0.538	0.538	0.538
22.4	0.536	0.536	0.536
22.6	0.535	0.535	0.535
22.8	0.533	0.533	0.533
23.0	0.531	0.531	0.531
23.2	0.529	0.529	0.529
23.4	0.528	0.528	0.528
23.6	0.526	0.526	0.526
23.8	0.525	0.525	0.525
24.0	0.523	0.523	0.523
24.2	0.522	0.522	0.522
24.4	0.520	0.520	0.520
24.6	0.519	0.519	0.519
24.8	0.517	0.517	0.517
25.0	0.516	0.516	0.516
25.2	0.514	0.514	0.514
25.4	0.513	0.513	0.513
25.6	0.511	0.511	0.511
25.8	0.510	0.510	0.510
26.0	0.509	0.509	0.509
26.2	0.507	0.507	0.507
26.4	0.506	0.506	0.506

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
26.6	0.505	0.505	0.505
26.8	0.503	0.503	0.503
27.0	0.502	0.502	0.502
27.2	0.501	0.501	0.501
27.4	0.500	0.500	0.500
27.6	0.499	0.499	0.499
27.8	0.497	0.497	0.497
28.0	0.496	0.496	0.496
28.2	0.495	0.495	0.495
28.4	0.494	0.494	0.494
28.6	0.493	0.493	0.493
28.8	0.492	0.492	0.492
29.0	0.490	0.490	0.490
29.2	0.489	0.489	0.489
29.4	0.488	0.488	0.488
29.6	0.487	0.487	0.487
29.8	0.486	0.486	0.486
30.0	0.485	0.485	0.485
30.2	0.484	0.484	0.484
30.4	0.483	0.483	0.483
30.6	0.482	0.482	0.482
30.8	0.481	0.481	0.481
31.0	0.480	0.480	0.480
31.2	0.479	0.479	0.479
31.4	0.478	0.478	0.478
31.6	0.477	0.477	0.477
31.8	0.476	0.476	0.476
32.0	0.476	0.476	0.476
32.2	0.475	0.475	0.475
32.4	0.474	0.474	0.474
32.6	0.473	0.473	0.473
32.8	0.472	0.472	0.472
33.0	0.471	0.471	0.471
33.2	0.470	0.470	0.470
33.4	0.469	0.469	0.469
33.6	0.469	0.469	0.469
33.8	0.468	0.468	0.468
34.0	0.467	0.467	0.467
34.2	0.466	0.466	0.466
34.4	0.465	0.465	0.465

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
34.6	0.465	0.465	0.465
34.8	0.464	0.464	0.464
35.0	0.463	0.463	0.463
35.2	0.462	0.462	0.462
35.4	0.461	0.461	0.461
35.6	0.461	0.461	0.461
35.8	0.460	0.460	0.460
36.0	0.459	0.459	0.459
36.2	0.459	0.459	0.459
36.4	0.458	0.458	0.458
36.6	0.457	0.457	0.457
36.8	0.456	0.456	0.456
37.0	0.456	0.456	0.456
37.2	0.455	0.455	0.455
37.4	0.454	0.454	0.454
37.6	0.454	0.454	0.454
37.8	0.453	0.453	0.453
38.0	0.452	0.452	0.452
38.2	0.452	0.452	0.452
38.4	0.451	0.451	0.451
38.6	0.450	0.450	0.450
38.8	0.450	0.450	0.450
39.0	0.449	0.449	0.449
39.2	0.449	0.449	0.449
39.4	0.448	0.448	0.448
39.6	0.447	0.447	0.447
39.8	0.447	0.447	0.447
40.0	0.446	0.446	0.446
40.2	0.446	0.446	0.446
40.4	0.445	0.445	0.445
40.6	0.444	0.444	0.444
40.8	0.444	0.444	0.444
41.0	0.443	0.443	0.443
41.2	0.443	0.443	0.443
41.4	0.442	0.442	0.442
41.6	0.442	0.442	0.442
41.8	0.441	0.441	0.441
42.0	0.441	0.441	0.441
42.2	0.440	0.440	0.440
42.4	0.439	0.439	0.439

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
42.6	0.439	0.439	0.439
42.8	0.438	0.438	0.438
43.0	0.438	0.438	0.438
43.2	0.437	0.437	0.437
43.4	0.437	0.437	0.437
43.6	0.436	0.436	0.436
43.8	0.436	0.436	0.436
44.0	0.435	0.435	0.435
44.2	0.435	0.435	0.435
44.4	0.434	0.434	0.434
44.6	0.434	0.434	0.434
44.8	0.433	0.433	0.433
45.0	0.433	0.433	0.433
45.2	0.433	0.433	0.433
45.4	0.432	0.432	0.432
45.6	0.432	0.432	0.432
45.8	0.431	0.431	0.431
46.0	0.431	0.431	0.431
46.2	0.430	0.430	0.430
46.4	0.430	0.430	0.430
46.6	0.429	0.429	0.429
46.8	0.429	0.429	0.429
47.0	0.428	0.428	0.428
47.2	0.428	0.428	0.428
47.4	0.428	0.428	0.428
47.6	0.427	0.427	0.427
47.8	0.427	0.427	0.427
48.0	0.426	0.426	0.426
48.2	0.426	0.426	0.426
48.4	0.426	0.426	0.426
48.6	0.425	0.425	0.425
48.8	0.425	0.425	0.425
49.0	0.424	0.424	0.424
49.2	0.424	0.424	0.424
49.4	0.424	0.424	0.424
49.6	0.423	0.423	0.423
49.8	0.423	0.423	0.423
50.0	0.422	0.422	0.422

B.5 Transport

Table B.5.1: Output for Problem 5.1-Basecase-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	0.9996	0.9996
20	0.9983	0.9983	0.9983
30	0.9945	0.9943	0.9943
40	0.9854	0.9846	0.9846
50	0.9662	0.9647	0.9647
60	0.9313	0.9284	0.9284
70	0.8745	0.8701	0.8701
80	0.7924	0.7867	0.7867
90	0.6858	0.6799	0.6799
100	0.5619	0.5572	0.5572
110	0.4321	0.4299	0.4299
120	0.3099	0.3107	0.3107
130	0.2060	0.2094	0.2094
140	0.1264	0.1313	0.1313
150	0.0712	0.0765	0.0765
160	0.0377	0.0413	0.0413
170	0.0134	0.0207	0.0207
180	0.0057	0.0096	0.0096
190	0.0022	0.0041	0.0041
200	0.0008	0.0017	0.0017
210	0.0003	0.0006	0.0006
220	0.0001	0.0002	0.0002
230	0.0000	0.0001	0.0001
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.2: Output for Problem 5.1-Basecase-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	0.9999	0.9999
50	0.9999	0.9998	0.9998
60	0.9996	0.9996	0.9996
70	0.9991	0.9991	0.9991
80	0.9981	0.9979	0.9979
90	0.9960	0.9957	0.9957
100	0.9921	0.9916	0.9916
110	0.9854	0.9844	0.9844
120	0.9743	0.9727	0.9727
130	0.9570	0.9546	0.9546
140	0.9313	0.9280	0.9280
150	0.8955	0.8910	0.8910
160	0.8495	0.8424	0.8424
170	0.7812	0.7816	0.7816
180	0.6726	0.7094	0.7094
190	0.5885	0.6281	0.6281
200	0.5000	0.5409	0.5409
210	0.4115	0.4521	0.4521
220	0.3274	0.3659	0.3659
230	0.2512	0.2863	0.2863
240	0.1855	0.2163	0.2163
250	0.1318	0.1576	0.1576
260	0.0899	0.1106	0.1106
270	0.0588	0.0747	0.0747
280	0.0368	0.0485	0.0485
290	0.0221	0.0303	0.0303

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
300	0.0127	0.0182	0.0182
310	0.0070	0.0105	0.0105
320	0.0036	0.0059	0.0059
330	0.0018	0.0031	0.0031
340	0.0009	0.0016	0.0016
350	0.0004	0.0008	0.0008
360	0.0002	0.0004	0.0004
370	0.0001	0.0002	0.0002
380	0.0000	0.0001	0.0001
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.3: Output for Problem 5.1-A-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9996	0.9996
10	0.9901	0.9902	0.9902
20	0.9578	0.9574	0.9574
30	0.8844	0.8826	0.8826
40	0.7577	0.7542	0.7542
50	0.5854	0.5817	0.5817
60	0.3982	0.3962	0.3962
70	0.2340	0.2347	0.2347
80	0.1171	0.1199	0.1199
90	0.0494	0.0525	0.0525
100	0.0175	0.0197	0.0197
110	0.0052	0.0063	0.0063
120	0.0013	0.0017	0.0017
130	0.0003	0.0004	0.0004
140	0.0000	0.0001	0.0001
150	0.0000	0.0000	0.0000
160	0.0000	0.0000	0.0000
170	0.0000	0.0000	0.0000
180	0.0000	0.0000	0.0000
190	0.0000	0.0000	0.0000
200	0.0000	0.0000	0.0000
210	0.0000	0.0000	0.0000
220	0.0000	0.0000	0.0000
230	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.4: Output for Problem 5.1-A-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	0.9997	0.9997
20	0.9983	0.9983	0.9983
30	0.9945	0.9945	0.9945
40	0.9854	0.9851	0.9851
50	0.9663	0.9656	0.9656
60	0.9313	0.9300	0.9300
70	0.8746	0.8724	0.8724
80	0.7924	0.7894	0.7894
90	0.6859	0.6826	0.6826
100	0.5619	0.5590	0.5590
110	0.4322	0.4305	0.4305
120	0.3099	0.3099	0.3099
130	0.2060	0.2075	0.2075
140	0.1264	0.1289	0.1289
150	0.0712	0.0740	0.0740
160	0.0377	0.0393	0.0393
170	0.0134	0.0192	0.0192

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x	$A(x)$	P_{v1}	P_{v2}
180	0.0057	0.0087	0.0087
190	0.0022	0.0036	0.0036
200	0.0008	0.0014	0.0014
210	0.0003	0.0005	0.0005
220	0.0001	0.0002	0.0002
230	0.0000	0.0000	0.0000
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.5: Output for Problem 5.1-B-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9975	0.9975
10	0.9753	0.9753	0.9753
20	0.9506	0.9505	0.9505
30	0.9245	0.9243	0.9243
40	0.8950	0.8944	0.8944
50	0.8587	0.8574	0.8574
60	0.8113	0.8088	0.8088
70	0.7485	0.7447	0.7447
80	0.6678	0.6630	0.6630
90	0.5706	0.5656	0.5656
100	0.4625	0.4584	0.4584
110	0.3526	0.3504	0.3504

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
120	0.2511	0.2513	0.2513
130	0.1659	0.1683	0.1683
140	0.1013	0.1049	0.1049
150	0.0570	0.0608	0.0608
160	0.0297	0.0327	0.0327
170	0.0108	0.0163	0.0163
180	0.0046	0.0075	0.0075
190	0.0018	0.0032	0.0032
200	0.0006	0.0013	0.0013
210	0.0002	0.0005	0.0005
220	0.0001	0.0002	0.0002
230	0.0000	0.0001	0.0001
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.6: Output for Problem 5.1-B-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9975	0.9975
10	0.9756	0.9756	0.9756
20	0.9518	0.9518	0.9518
30	0.9286	0.9286	0.9286
40	0.9059	0.9059	0.9059
50	0.8838	0.8837	0.8837

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x	$A(x)$	P_{v1}	P_{v2}
60	0.8621	0.8620	0.8620
70	0.8407	0.8407	0.8407
80	0.8196	0.8195	0.8195
90	0.7984	0.7982	0.7982
100	0.7766	0.7763	0.7763
110	0.7537	0.7531	0.7531
120	0.7288	0.7278	0.7278
130	0.7008	0.6992	0.6992
140	0.6686	0.6663	0.6663
150	0.6311	0.6281	0.6281
160	0.5870	0.5839	0.5839
170	0.5143	0.5335	0.5335
180	0.4561	0.4777	0.4777
190	0.3946	0.4178	0.4178
200	0.3320	0.3559	0.3559
210	0.2709	0.2946	0.2946
220	0.2138	0.2365	0.2365
230	0.1630	0.1836	0.1836
240	0.1197	0.1378	0.1378
250	0.0846	0.0998	0.0998
260	0.0574	0.0696	0.0696
270	0.0374	0.0468	0.0468
280	0.0234	0.0303	0.0303
290	0.0140	0.0188	0.0188
300	0.0080	0.0113	0.0113
310	0.0044	0.0065	0.0065
320	0.0023	0.0036	0.0036
330	0.0011	0.0019	0.0019
340	0.0005	0.0010	0.0010
350	0.0002	0.0005	0.0005
360	0.0001	0.0002	0.0002
370	0.0000	0.0001	0.0001
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.7: Output for Problem 5.1-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9948	0.9948
10	0.9452	0.9452	0.9452
20	0.8764	0.8760	0.8760
30	0.7805	0.7789	0.7789
40	0.6495	0.6465	0.6465
50	0.4908	0.4875	0.4875
60	0.3283	0.3264	0.3264
70	0.1906	0.1909	0.1909
80	0.0945	0.0965	0.0965
90	0.0396	0.0419	0.0419
100	0.0139	0.0156	0.0156
110	0.0041	0.0050	0.0050
120	0.0010	0.0014	0.0014
130	0.0002	0.0003	0.0003
140	0.0000	0.0001	0.0001
150	0.0000	0.0000	0.0000
160	0.0000	0.0000	0.0000
170	0.0000	0.0000	0.0000
180	0.0000	0.0000	0.0000
190	0.0000	0.0000	0.0000
200	0.0000	0.0000	0.0000
210	0.0000	0.0000	0.0000
220	0.0000	0.0000	0.0000
230	0.0000	0.0000	0.0000
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.8: Output for Problem 5.1-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9951	0.9951
10	0.9522	0.9521	0.9521
20	0.9061	0.9060	0.9060
30	0.8607	0.8607	0.8607
40	0.8145	0.8143	0.8143
50	0.7647	0.7642	0.7642
60	0.7082	0.7073	0.7073
70	0.6418	0.6402	0.6402
80	0.5638	0.5617	0.5617
90	0.4755	0.4731	0.4731
100	0.3812	0.3791	0.3791
110	0.2881	0.2867	0.2867
120	0.2036	0.2033	0.2033
130	0.1338	0.1344	0.1344
140	0.0813	0.0826	0.0826
150	0.0456	0.0470	0.0470
160	0.0186	0.0248	0.0248
170	0.0086	0.0120	0.0120
180	0.0036	0.0054	0.0054
190	0.0014	0.0022	0.0022
200	0.0005	0.0009	0.0009
210	0.0002	0.0003	0.0003
220	0.0000	0.0001	0.0001
230	0.0000	0.0000	0.0000
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.9: Output for Problem 5.1-D-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9920	0.9920
20	0.9983	0.9840	0.9840
40	0.9854	0.9391	0.9391
60	0.9313	0.8436	0.8436
80	0.7924	0.6975	0.6975
100	0.5619	0.5243	0.5243
120	0.3099	0.3567	0.3567
140	0.1264	0.2199	0.2199
160	0.0377	0.1234	0.1234
180	0.0057	0.0633	0.0633
200	0.0008	0.0299	0.0299
220	0.0001	0.0131	0.0131
240	0.0000	0.0053	0.0053
260	0.0000	0.0020	0.0020
280	0.0000	0.0007	0.0007
300	0.0000	0.0002	0.0002
320	0.0000	0.0001	0.0001
340	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.10: Output for Problem 5.1-D-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9999	0.9999
20	1.0000	0.9997	0.9997
40	0.9999	0.9987	0.9987
60	0.9996	0.9949	0.9949
80	0.9981	0.9844	0.9844
100	0.9921	0.9609	0.9609
120	0.9743	0.9173	0.9173
140	0.9313	0.8485	0.8485
160	0.8495	0.7543	0.7543
180	0.6726	0.6402	0.6402
200	0.5000	0.5166	0.5166
220	0.3274	0.3952	0.3952
240	0.1855	0.2864	0.2864
260	0.0899	0.1966	0.1966
280	0.0368	0.1279	0.1279
300	0.0127	0.0790	0.0790
320	0.0036	0.0464	0.0464
340	0.0009	0.0259	0.0259
360	0.0002	0.0138	0.0138
380	0.0000	0.0056	0.0056
400	0.0000	0.0056	0.0056

Table B.5.11: Output for Problem 5.1-E-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9228	0.9228
40	0.9854	0.8456	0.8456
80	0.7924	0.6316	0.6316
120	0.3099	0.3929	0.3929
160	0.0377	0.2050	0.2050
200	0.0008	0.0911	0.0911
240	0.0000	0.0351	0.0351
280	0.0000	0.0119	0.0119
320	0.0000	0.0036	0.0036
360	0.0000	0.0007	0.0007
400	0.0000	0.0007	0.0007

Table B.5.12: Output for Problem 5.1-E-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9881	0.9881
40	0.9999	0.9762	0.9762
80	0.9981	0.9253	0.9253
120	0.9743	0.8246	0.8246
160	0.8495	0.6762	0.6762
200	0.5000	0.5040	0.5040
240	0.1855	0.3400	0.3400
280	0.0368	0.2078	0.2078
320	0.0036	0.1155	0.1155
360	0.0002	0.0462	0.0462
400	0.0000	0.0462	0.0462

Table B.5.13: Output for Problem 5.1-F-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.7934	0.7934
80	0.7924	0.5868	0.5868
160	0.0377	0.2813	0.2813
240	0.0000	0.1021	0.1021
320	0.0000	0.0213	0.0213
400	0.0000	0.0213	0.0213

Table B.5.14: Output for Problem 5.1-F-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9146	0.9146
80	0.9981	0.8293	0.8293
160	0.8495	0.6153	0.6153
240	0.1855	0.3805	0.3805
320	0.0036	0.1537	0.1537
400	0.0000	0.1537	0.1537

Table B.5.15: Output for Problem 5.1-G-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9998	0.9998
10	0.9996	0.9954	0.9954
20	0.9983	0.9819	0.9819
30	0.9945	0.9555	0.9555
40	0.9854	0.9141	0.9141
50	0.9662	0.8583	0.8583
60	0.9313	0.7907	0.7907
70	0.8745	0.7150	0.7150
80	0.7924	0.6351	0.6351
90	0.6858	0.5549	0.5549
100	0.5619	0.4775	0.4775
110	0.4321	0.4051	0.4051
120	0.3099	0.3392	0.3392
130	0.2060	0.2807	0.2807
140	0.1264	0.2298	0.2298
150	0.0712	0.1863	0.1863
160	0.0377	0.1496	0.1496
170	0.0134	0.1191	0.1191
180	0.0057	0.0941	0.0941
190	0.0022	0.0738	0.0738
200	0.0008	0.0575	0.0575
210	0.0003	0.0445	0.0445
220	0.0001	0.0343	0.0343
230	0.0000	0.0263	0.0263
240	0.0000	0.0200	0.0200
250	0.0000	0.0152	0.0152
260	0.0000	0.0114	0.0114
270	0.0000	0.0086	0.0086
280	0.0000	0.0064	0.0064
290	0.0000	0.0048	0.0048
300	0.0000	0.0036	0.0036
310	0.0000	0.0027	0.0027
320	0.0000	0.0020	0.0020
330	0.0000	0.0014	0.0014
340	0.0000	0.0011	0.0011
350	0.0000	0.0008	0.0008
360	0.0000	0.0006	0.0006

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x	$A(x)$	P_{v1}	P_{v2}
370	0.0000	0.0004	0.0004
380	0.0000	0.0003	0.0003
390	0.0000	0.0003	0.0003
400	0.0000	0.0009	0.0009

Table B.5.16: Output for Problem 5.1-G-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	0.9999	0.9999
20	1.0000	0.9997	0.9997
30	1.0000	0.9992	0.9992
40	0.9999	0.9979	0.9979
50	0.9999	0.9953	0.9953
60	0.9996	0.9907	0.9907
70	0.9991	0.9832	0.9832
80	0.9981	0.9720	0.9720
90	0.9960	0.9563	0.9563
100	0.9921	0.9353	0.9353
110	0.9854	0.9087	0.9087
120	0.9743	0.8764	0.8764
130	0.9570	0.8386	0.8386
140	0.9313	0.7958	0.7958
150	0.8955	0.7487	0.7487
160	0.8495	0.6984	0.6984
170	0.7812	0.6457	0.6457
180	0.6726	0.5919	0.5919
190	0.5885	0.5379	0.5379
200	0.5000	0.4848	0.4848
210	0.4115	0.4334	0.4334
220	0.3274	0.3843	0.3843
230	0.2512	0.3382	0.3382
240	0.1855	0.2955	0.2955
250	0.1318	0.2562	0.2562
260	0.0899	0.2207	0.2207
270	0.0588	0.1888	0.1888
280	0.0368	0.1606	0.1606
290	0.0221	0.1357	0.1357
300	0.0127	0.1140	0.1140

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x	$A(x)$	P_{v1}	P_{v2}
310	0.0070	0.0952	0.0952
320	0.0036	0.0791	0.0791
330	0.0018	0.0654	0.0654
340	0.0009	0.0537	0.0537
350	0.0004	0.0440	0.0440
360	0.0002	0.0358	0.0358
370	0.0001	0.0292	0.0292
380	0.0000	0.0251	0.0251
390	0.0000	0.0349	0.0349
400	0.0000	0.1138	0.1138

Table B.5.17: Output for Problem 5.1-H-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9996	0.9996
10	0.9996	0.9921	0.9921
20	0.9983	0.9734	0.9734
30	0.9945	0.9432	0.9432
40	0.9854	0.9027	0.9027
50	0.9662	0.8538	0.8538
60	0.9313	0.7988	0.7988
70	0.8745	0.7400	0.7400
80	0.7924	0.6794	0.6794
90	0.6858	0.6188	0.6188
100	0.5619	0.5594	0.5594
110	0.4321	0.5024	0.5024
120	0.3099	0.4485	0.4485
130	0.2060	0.3981	0.3981
140	0.1264	0.3517	0.3517
150	0.0712	0.3093	0.3093
160	0.0377	0.2708	0.2708
170	0.0134	0.2362	0.2362
180	0.0057	0.2053	0.2053
190	0.0022	0.1779	0.1779
200	0.0008	0.1536	0.1536
210	0.0003	0.1323	0.1323
220	0.0001	0.1136	0.1136
230	0.0000	0.0973	0.0973
240	0.0000	0.0832	0.0832

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x	$A(x)$	P_{v1}	P_{v2}
250	0.0000	0.0710	0.0710
260	0.0000	0.0604	0.0604
270	0.0000	0.0513	0.0513
280	0.0000	0.0435	0.0435
290	0.0000	0.0368	0.0368
300	0.0000	0.0311	0.0311
310	0.0000	0.0263	0.0263
320	0.0000	0.0221	0.0221
330	0.0000	0.0186	0.0186
340	0.0000	0.0157	0.0157
350	0.0000	0.0131	0.0131
360	0.0000	0.0110	0.0110
370	0.0000	0.0092	0.0092
380	0.0000	0.0077	0.0077
390	0.0000	0.0065	0.0065
400	0.0000	0.0058	0.0058

Table B.5.18: Output for Problem 5.1-H-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	0.9996	0.9996
20	1.0000	0.9982	0.9982
30	1.0000	0.9950	0.9950
40	0.9999	0.9893	0.9893
50	0.9999	0.9802	0.9802
60	0.9996	0.9672	0.9672
70	0.9991	0.9498	0.9498
80	0.9981	0.9279	0.9279
90	0.9960	0.9016	0.9016
100	0.9921	0.8711	0.8711
110	0.9854	0.8369	0.8369
120	0.9743	0.7995	0.7995
130	0.9570	0.7596	0.7596
140	0.9313	0.7177	0.7177
150	0.8955	0.6746	0.6746
160	0.8495	0.6309	0.6309
170	0.7812	0.5872	0.5872
180	0.6726	0.5439	0.5439

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190	0.5885	0.5016	0.5016
200	0.5000	0.4606	0.4606
210	0.4115	0.4212	0.4212
220	0.3274	0.3837	0.3837
230	0.2512	0.3482	0.3482
240	0.1855	0.3149	0.3149
250	0.1318	0.2838	0.2838
260	0.0899	0.2550	0.2550
270	0.0588	0.2284	0.2284
280	0.0368	0.2039	0.2039
290	0.0221	0.1816	0.1816
300	0.0127	0.1613	0.1613
310	0.0070	0.1429	0.1429
320	0.0036	0.1263	0.1263
330	0.0018	0.1113	0.1113
340	0.0009	0.0979	0.0979
350	0.0004	0.0859	0.0859
360	0.0002	0.0753	0.0753
370	0.0001	0.0658	0.0658
380	0.0000	0.0575	0.0575
390	0.0000	0.0503	0.0503
400	0.0000	0.0464	0.0464

Table B.5.19: Output for Problem 5.1-I-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9905	0.9905
10	0.9996	0.9089	0.9089
20	0.9983	0.8261	0.8261
30	0.9945	0.7509	0.7509
40	0.9854	0.6826	0.6826
50	0.9662	0.6205	0.6205
60	0.9313	0.5640	0.5640
70	0.8745	0.5126	0.5126
80	0.7924	0.4660	0.4660
90	0.6858	0.4236	0.4236
100	0.5619	0.3850	0.3850
110	0.4321	0.3500	0.3500
120	0.3099	0.3181	0.3181

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
130	0.2060	0.2891	0.2891
140	0.1264	0.2628	0.2628
150	0.0712	0.2389	0.2389
160	0.0377	0.2172	0.2172
170	0.0134	0.1974	0.1974
180	0.0057	0.1794	0.1794
190	0.0022	0.1631	0.1631
200	0.0008	0.1482	0.1482
210	0.0003	0.1347	0.1347
220	0.0001	0.1225	0.1225
230	0.0000	0.1113	0.1113
240	0.0000	0.1012	0.1012
250	0.0000	0.0920	0.0920
260	0.0000	0.0836	0.0836
270	0.0000	0.0760	0.0760
280	0.0000	0.0691	0.0691
290	0.0000	0.0628	0.0628
300	0.0000	0.0571	0.0571
310	0.0000	0.0519	0.0519
320	0.0000	0.0472	0.0472
330	0.0000	0.0429	0.0429
340	0.0000	0.0390	0.0390
350	0.0000	0.0354	0.0354
360	0.0000	0.0322	0.0322
370	0.0000	0.0293	0.0293
380	0.0000	0.0266	0.0266
390	0.0000	0.0243	0.0243
400	0.0000	0.0230	0.0230

Table B.5.20: Output for Problem 5.1-I-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	0.9995	0.9995
10	1.0000	0.9920	0.9920
20	1.0000	0.9771	0.9771
30	1.0000	0.9567	0.9567
40	0.9999	0.9319	0.9319
50	0.9999	0.9037	0.9037
60	0.9996	0.8729	0.8729

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.9991	0.8403	0.8403
80	0.9981	0.8063	0.8063
90	0.9960	0.7716	0.7716
100	0.9921	0.7365	0.7365
110	0.9854	0.7014	0.7014
120	0.9743	0.6666	0.6666
130	0.9570	0.6323	0.6323
140	0.9313	0.5987	0.5987
150	0.8955	0.5660	0.5660
160	0.8495	0.5343	0.5343
170	0.7812	0.5037	0.5037
180	0.6726	0.4742	0.4742
190	0.5885	0.4459	0.4459
200	0.5000	0.4189	0.4189
210	0.4115	0.3931	0.3931
220	0.3274	0.3685	0.3685
230	0.2512	0.3451	0.3451
240	0.1855	0.3229	0.3229
250	0.1318	0.3019	0.3019
260	0.0899	0.2821	0.2821
270	0.0588	0.2633	0.2633
280	0.0368	0.2457	0.2457
290	0.0221	0.2290	0.2290
300	0.0127	0.2134	0.2134
310	0.0070	0.1987	0.1987
320	0.0036	0.1849	0.1849
330	0.0018	0.1720	0.1720
340	0.0009	0.1599	0.1599
350	0.0004	0.1486	0.1486
360	0.0002	0.1380	0.1380
370	0.0001	0.1281	0.1281
380	0.0000	0.1189	0.1189
390	0.0000	0.1107	0.1107
400	0.0000	0.1060	0.1060

Table B.5.21: Output for Problem 5.1-J-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	1.0000	1.0000	1.0000
20	1.0000	1.0001	1.0001
30	1.0000	1.0002	1.0002
40	1.0000	1.0005	1.0005
50	1.0000	1.0004	1.0004
60	1.0000	0.9975	0.9975
70	1.0000	0.9979	0.9979
80	0.9999	1.0203	1.0203
90	0.9661	0.9410	0.9410
100	0.5000	0.4350	0.4350
110	0.0339	0.0959	0.0959
120	0.0001	0.0113	0.0113
130	0.0000	0.0008	0.0008
140	0.0000	0.0000	0.0000
150	0.0000	0.0000	0.0000
160	0.0000	0.0000	0.0000
170	0.0000	0.0000	0.0000
180	0.0000	0.0000	0.0000
190	0.0000	0.0000	0.0000
200	0.0000	0.0000	0.0000
210	0.0000	0.0000	0.0000
220	0.0000	0.0000	0.0000
230	0.0000	0.0000	0.0000
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.22: Output for Problem 5.1-J-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	1.0000	1.0000	1.0000
50	1.0000	1.0000	1.0000
60	1.0000	1.0000	1.0000
70	1.0000	1.0000	1.0000
80	1.0000	1.0000	1.0000
90	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000
110	1.0000	1.0000	1.0000
120	1.0000	1.0000	1.0000
130	1.0000	0.9998	0.9998
140	1.0000	1.0003	1.0003
150	1.0000	0.9999	0.9999
160	1.0000	0.9994	0.9994
170	0.9999	0.9998	0.9998
180	0.9951	1.0253	1.0253
190	0.9016	0.8358	0.8358
200	0.5000	0.4457	0.4457
210	0.0984	0.1531	0.1531
220	0.0000	0.0353	0.0353
230	0.0000	0.0057	0.0057
240	0.0000	0.0007	0.0007
250	0.0000	0.0001	0.0001
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.23: Output for Problem 5.1-K1-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	1.0000	1.0000
20	0.9983	1.0000	1.0000
30	0.9945	1.0000	1.0000
40	0.9854	1.0000	1.0000
50	0.9662	0.9998	0.9998
60	0.9313	0.9972	0.9972
70	0.8745	0.9782	0.9782
80	0.7924	0.9044	0.9044
90	0.6858	0.7343	0.7343
100	0.5619	0.4887	0.4887
110	0.4321	0.2552	0.2552
120	0.3099	0.1027	0.1027
130	0.2060	0.0318	0.0318
140	0.1264	0.0076	0.0076
150	0.0712	0.0014	0.0014
160	0.0377	0.0002	0.0002
170	0.0134	0.0000	0.0000
180	0.0057	0.0000	0.0000
190	0.0022	0.0000	0.0000
200	0.0008	0.0000	0.0000
210	0.0003	0.0000	0.0000
220	0.0001	0.0000	0.0000
230	0.0000	0.0000	0.0000
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.24: Output for Problem 5.1-K1-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	1.0000	1.0000
50	0.9999	1.0000	1.0000
60	0.9996	1.0000	1.0000
70	0.9991	1.0000	1.0000
80	0.9981	1.0000	1.0000
90	0.9960	1.0000	1.0000
100	0.9921	1.0000	1.0000
110	0.9854	1.0000	1.0000
120	0.9743	1.0000	1.0000
130	0.9570	0.9997	0.9997
140	0.9313	0.9981	0.9981
150	0.8955	0.9912	0.9912
160	0.8495	0.9696	0.9696
170	0.7812	0.9172	0.9172
180	0.6726	0.8180	0.8180
190	0.5885	0.6697	0.6697
200	0.5000	0.4919	0.4919
210	0.4115	0.3188	0.3188
220	0.3274	0.1805	0.1805
230	0.2512	0.0888	0.0888
240	0.1855	0.0379	0.0379

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
250	0.1318	0.0140	0.0140
260	0.0899	0.0045	0.0045
270	0.0588	0.0013	0.0013
280	0.0368	0.0003	0.0003
290	0.0221	0.0001	0.0001
300	0.0127	0.0000	0.0000
310	0.0070	0.0000	0.0000
320	0.0036	0.0000	0.0000
330	0.0018	0.0000	0.0000
340	0.0009	0.0000	0.0000
350	0.0004	0.0000	0.0000
360	0.0002	0.0000	0.0000
370	0.0001	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.25: Output for Problem 5.1-K2-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	1.0000	1.0000
20	0.9983	1.0000	1.0000
30	0.9945	1.0000	1.0000
40	0.9854	1.0000	1.0000
50	0.9662	0.9998	0.9998
60	0.9313	0.9972	0.9972
70	0.8745	0.9782	0.9782
80	0.7924	0.9044	0.9044
90	0.6858	0.7343	0.7343
100	0.5619	0.4887	0.4887
110	0.4321	0.2552	0.2552
120	0.3099	0.1027	0.1027
130	0.2060	0.0318	0.0318
140	0.1264	0.0076	0.0076
150	0.0712	0.0014	0.0014
160	0.0377	0.0002	0.0002
170	0.0134	0.0000	0.0000
180	0.0057	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190	0.0022	0.0000	0.0000
200	0.0008	0.0000	0.0000
210	0.0003	0.0000	0.0000
220	0.0001	0.0000	0.0000
230	0.0000	0.0000	0.0000
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.26: Output for Problem 5.1-K2-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	1.0000	1.0000
50	0.9999	1.0000	1.0000
60	0.9996	1.0000	1.0000
70	0.9991	1.0000	1.0000
80	0.9981	1.0000	1.0000
90	0.9960	1.0000	1.0000
100	0.9921	1.0000	1.0000
110	0.9854	1.0000	1.0000
120	0.9743	1.0000	1.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
130	0.9570	0.9997	0.9997
140	0.9313	0.9981	0.9981
150	0.8955	0.9912	0.9912
160	0.8495	0.9696	0.9696
170	0.7812	0.9172	0.9172
180	0.6726	0.8180	0.8180
190	0.5885	0.6697	0.6697
200	0.5000	0.4919	0.4919
210	0.4115	0.3188	0.3188
220	0.3274	0.1805	0.1805
230	0.2512	0.0888	0.0888
240	0.1855	0.0379	0.0379
250	0.1318	0.0140	0.0140
260	0.0899	0.0045	0.0045
270	0.0588	0.0013	0.0013
280	0.0368	0.0003	0.0003
290	0.0221	0.0001	0.0001
300	0.0127	0.0000	0.0000
310	0.0070	0.0000	0.0000
320	0.0036	0.0000	0.0000
330	0.0018	0.0000	0.0000
340	0.0009	0.0000	0.0000
350	0.0004	0.0000	0.0000
360	0.0002	0.0000	0.0000
370	0.0001	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.27: Output for Problem 5.1-K3-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	1.0000	1.0000
20	0.9983	1.0000	1.0000
30	0.9945	1.0000	1.0000
40	0.9854	1.0000	1.0000
50	0.9662	1.0000	1.0000
60	0.9313	1.0000	1.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.8745	0.9999	0.9999
80	0.7924	1.0035	1.0035
90	0.6858	0.9354	0.9354
100	0.5619	0.4800	0.4800
110	0.4321	0.0846	0.0846
120	0.3099	0.0034	0.0034
130	0.2060	0.0000	0.0000
140	0.1264	0.0000	0.0000
150	0.0712	0.0000	0.0000
160	0.0377	0.0000	0.0000
170	0.0134	0.0000	0.0000
180	0.0057	0.0000	0.0000
190	0.0022	0.0000	0.0000
200	0.0008	0.0000	0.0000
210	0.0003	0.0000	0.0000
220	0.0001	0.0000	0.0000
230	0.0000	0.0000	0.0000
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.28: Output for Problem 5.1-K3-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	1.0000	1.0000
50	0.9999	1.0000	1.0000
60	0.9996	1.0000	1.0000
70	0.9991	1.0000	1.0000
80	0.9981	1.0000	1.0000
90	0.9960	1.0000	1.0000
100	0.9921	1.0000	1.0000
110	0.9854	1.0000	1.0000
120	0.9743	1.0000	1.0000
130	0.9570	1.0000	1.0000
140	0.9313	1.0000	1.0000
150	0.8955	1.0000	1.0000
160	0.8495	0.9999	0.9999
170	0.7812	1.0008	1.0008
180	0.6726	0.9945	0.9945
190	0.5885	0.8520	0.8520
200	0.5000	0.4836	0.4836
210	0.4115	0.1513	0.1513
220	0.3274	0.0233	0.0233
230	0.2512	0.0015	0.0015
240	0.1855	0.0000	0.0000
250	0.1318	0.0000	0.0000
260	0.0899	0.0000	0.0000
270	0.0588	0.0000	0.0000
280	0.0368	0.0000	0.0000
290	0.0221	0.0000	0.0000
300	0.0127	0.0000	0.0000
310	0.0070	0.0000	0.0000
320	0.0036	0.0000	0.0000
330	0.0018	0.0000	0.0000
340	0.0009	0.0000	0.0000
350	0.0004	0.0000	0.0000
360	0.0002	0.0000	0.0000
370	0.0001	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.29: Output for Problem 5.1-K4-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	1.0000	1.0000
20	0.9983	1.0001	1.0001
30	0.9945	1.0002	1.0002
40	0.9854	1.0005	1.0005
50	0.9662	1.0004	1.0004
60	0.9313	0.9975	0.9975
70	0.8745	0.9979	0.9979
80	0.7924	1.0203	1.0203
90	0.6858	0.9410	0.9410
100	0.5619	0.4350	0.4350
110	0.4321	0.0959	0.0959
120	0.3099	0.0113	0.0113
130	0.2060	0.0008	0.0008
140	0.1264	0.0000	0.0000
150	0.0712	0.0000	0.0000
160	0.0377	0.0000	0.0000
170	0.0134	0.0000	0.0000
180	0.0057	0.0000	0.0000
190	0.0022	0.0000	0.0000
200	0.0008	0.0000	0.0000
210	0.0003	0.0000	0.0000
220	0.0001	0.0000	0.0000
230	0.0000	0.0000	0.0000
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.30: Output for Problem 5.1-K4-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	1.0000	1.0000
50	0.9999	1.0000	1.0000
60	0.9996	1.0000	1.0000
70	0.9991	1.0000	1.0000
80	0.9981	1.0000	1.0000
90	0.9960	1.0000	1.0000
100	0.9921	1.0000	1.0000
110	0.9854	1.0000	1.0000
120	0.9743	1.0000	1.0000
130	0.9570	0.9998	0.9998
140	0.9313	1.0003	1.0003
150	0.8955	0.9999	0.9999
160	0.8495	0.9994	0.9994
170	0.7812	0.9998	0.9998
180	0.6726	1.0253	1.0253
190	0.5885	0.8358	0.8358
200	0.5000	0.4457	0.4457
210	0.4115	0.1531	0.1531
220	0.3274	0.0353	0.0353
230	0.2512	0.0057	0.0057
240	0.1855	0.0007	0.0007
250	0.1318	0.0001	0.0001
260	0.0899	0.0000	0.0000
270	0.0588	0.0000	0.0000
280	0.0368	0.0000	0.0000
290	0.0221	0.0000	0.0000
300	0.0127	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
310	0.0070	0.0000	0.0000
320	0.0036	0.0000	0.0000
330	0.0018	0.0000	0.0000
340	0.0009	0.0000	0.0000
350	0.0004	0.0000	0.0000
360	0.0002	0.0000	0.0000
370	0.0001	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.31: Output for Problem 5.1-L1-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	0.9996	0.9996
20	0.9983	0.9983	0.9983
30	0.9945	0.9943	0.9943
40	0.9854	0.9846	0.9846
50	0.9662	0.9647	0.9647
60	0.9313	0.9284	0.9284
70	0.8745	0.8701	0.8701
80	0.7924	0.7867	0.7867
90	0.6858	0.6799	0.6799
100	0.5619	0.5572	0.5572
110	0.4321	0.4299	0.4299
120	0.3099	0.3107	0.3107
130	0.2060	0.2094	0.2094
140	0.1264	0.1313	0.1313
150	0.0712	0.0765	0.0765
160	0.0377	0.0413	0.0413
170	0.0134	0.0207	0.0207
180	0.0057	0.0096	0.0096
190	0.0022	0.0041	0.0041
200	0.0008	0.0017	0.0017
210	0.0003	0.0006	0.0006
220	0.0001	0.0002	0.0002
230	0.0000	0.0001	0.0001
240	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.32: Output for Problem 5.1-L1-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	0.9999	0.9999
50	0.9999	0.9998	0.9998
60	0.9996	0.9996	0.9996
70	0.9991	0.9991	0.9991
80	0.9981	0.9979	0.9979
90	0.9960	0.9957	0.9957
100	0.9921	0.9916	0.9916
110	0.9854	0.9844	0.9844
120	0.9743	0.9727	0.9727
130	0.9570	0.9546	0.9546
140	0.9313	0.9280	0.9280
150	0.8955	0.8910	0.8910
160	0.8495	0.8424	0.8424
170	0.7812	0.7816	0.7816
180	0.6726	0.7094	0.7094

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190	0.5885	0.6281	0.6281
200	0.5000	0.5409	0.5409
210	0.4115	0.4521	0.4521
220	0.3274	0.3659	0.3659
230	0.2512	0.2863	0.2863
240	0.1855	0.2163	0.2163
250	0.1318	0.1576	0.1576
260	0.0899	0.1106	0.1106
270	0.0588	0.0747	0.0747
280	0.0368	0.0485	0.0485
290	0.0221	0.0303	0.0303
300	0.0127	0.0182	0.0182
310	0.0070	0.0105	0.0105
320	0.0036	0.0059	0.0059
330	0.0018	0.0031	0.0031
340	0.0009	0.0016	0.0016
350	0.0004	0.0008	0.0008
360	0.0002	0.0004	0.0004
370	0.0001	0.0002	0.0002
380	0.0000	0.0001	0.0001
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.33: Output for Problem 5.1-L2-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	0.9996	0.9996
20	0.9983	0.9983	0.9983
30	0.9945	0.9943	0.9943
40	0.9854	0.9846	0.9846
50	0.9662	0.9647	0.9647
60	0.9313	0.9284	0.9284
70	0.8745	0.8701	0.8701
80	0.7924	0.7867	0.7867
90	0.6858	0.6799	0.6799
100	0.5619	0.5572	0.5572
110	0.4321	0.4299	0.4299
120	0.3099	0.3107	0.3107

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
130	0.2060	0.2094	0.2094
140	0.1264	0.1313	0.1313
150	0.0712	0.0765	0.0765
160	0.0377	0.0413	0.0413
170	0.0134	0.0207	0.0207
180	0.0057	0.0096	0.0096
190	0.0022	0.0041	0.0041
200	0.0008	0.0017	0.0017
210	0.0003	0.0006	0.0006
220	0.0001	0.0002	0.0002
230	0.0000	0.0001	0.0001
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.34: Output for Problem 5.1-L2-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	0.9999	0.9999
50	0.9999	0.9998	0.9998
60	0.9996	0.9996	0.9996

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.9991	0.9991	0.9991
80	0.9981	0.9979	0.9979
90	0.9960	0.9957	0.9957
100	0.9921	0.9916	0.9916
110	0.9854	0.9844	0.9844
120	0.9743	0.9727	0.9727
130	0.9570	0.9546	0.9546
140	0.9313	0.9280	0.9280
150	0.8955	0.8910	0.8910
160	0.8495	0.8424	0.8424
170	0.7812	0.7816	0.7816
180	0.6726	0.7094	0.7094
190	0.5885	0.6281	0.6281
200	0.5000	0.5409	0.5409
210	0.4115	0.4521	0.4521
220	0.3274	0.3659	0.3659
230	0.2512	0.2863	0.2863
240	0.1855	0.2163	0.2163
250	0.1318	0.1576	0.1576
260	0.0899	0.1106	0.1106
270	0.0588	0.0747	0.0747
280	0.0368	0.0485	0.0485
290	0.0221	0.0303	0.0303
300	0.0127	0.0182	0.0182
310	0.0070	0.0105	0.0105
320	0.0036	0.0059	0.0059
330	0.0018	0.0031	0.0031
340	0.0009	0.0016	0.0016
350	0.0004	0.0008	0.0008
360	0.0002	0.0004	0.0004
370	0.0001	0.0002	0.0002
380	0.0000	0.0001	0.0001
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.35: Output for Problem 5.1-L3-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	0.9996	0.9996	0.9996
20	0.9983	0.9983	0.9983
30	0.9945	0.9943	0.9943
40	0.9854	0.9846	0.9846
50	0.9662	0.9647	0.9647
60	0.9313	0.9284	0.9284
70	0.8745	0.8701	0.8701
80	0.7924	0.7867	0.7867
90	0.6858	0.6799	0.6799
100	0.5619	0.5572	0.5572
110	0.4321	0.4299	0.4299
120	0.3099	0.3107	0.3107
130	0.2060	0.2094	0.2094
140	0.1264	0.1313	0.1313
150	0.0712	0.0765	0.0765
160	0.0377	0.0413	0.0413
170	0.0134	0.0207	0.0207
180	0.0057	0.0096	0.0096
190	0.0022	0.0041	0.0041
200	0.0008	0.0017	0.0017
210	0.0003	0.0006	0.0006
220	0.0001	0.0002	0.0002
230	0.0000	0.0001	0.0001
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.36: Output for Problem 5.1-L3-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	0.9999	0.9999
50	0.9999	0.9998	0.9998
60	0.9996	0.9996	0.9996
70	0.9991	0.9991	0.9991
80	0.9981	0.9979	0.9979
90	0.9960	0.9957	0.9957
100	0.9921	0.9916	0.9916
110	0.9854	0.9844	0.9844
120	0.9743	0.9727	0.9727
130	0.9570	0.9546	0.9546
140	0.9313	0.9280	0.9280
150	0.8955	0.8910	0.8910
160	0.8495	0.8424	0.8424
170	0.7812	0.7816	0.7816
180	0.6726	0.7094	0.7094
190	0.5885	0.6281	0.6281
200	0.5000	0.5409	0.5409
210	0.4115	0.4521	0.4521
220	0.3274	0.3659	0.3659
230	0.2512	0.2863	0.2863
240	0.1855	0.2163	0.2163
250	0.1318	0.1576	0.1576
260	0.0899	0.1106	0.1106
270	0.0588	0.0747	0.0747
280	0.0368	0.0485	0.0485
290	0.0221	0.0303	0.0303
300	0.0127	0.0182	0.0182
310	0.0070	0.0105	0.0105
320	0.0036	0.0059	0.0059
330	0.0018	0.0031	0.0031
340	0.0009	0.0016	0.0016
350	0.0004	0.0008	0.0008
360	0.0002	0.0004	0.0004

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
370	0.0001	0.0002	0.0002
380	0.0000	0.0001	0.0001
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.37: Output for Problem 5.1-L4-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	0.9996	0.9996	0.9996
20	0.9983	0.9983	0.9983
30	0.9945	0.9943	0.9943
40	0.9854	0.9846	0.9846
50	0.9662	0.9647	0.9647
60	0.9313	0.9284	0.9284
70	0.8745	0.8701	0.8701
80	0.7924	0.7867	0.7867
90	0.6858	0.6799	0.6799
100	0.5619	0.5572	0.5572
110	0.4321	0.4299	0.4299
120	0.3099	0.3107	0.3107
130	0.2060	0.2094	0.2094
140	0.1264	0.1313	0.1313
150	0.0712	0.0765	0.0765
160	0.0377	0.0413	0.0413
170	0.0134	0.0207	0.0207
180	0.0057	0.0096	0.0096
190	0.0022	0.0041	0.0041
200	0.0008	0.0017	0.0017
210	0.0003	0.0006	0.0006
220	0.0001	0.0002	0.0002
230	0.0000	0.0001	0.0001
240	0.0000	0.0000	0.0000
250	0.0000	0.0000	0.0000
260	0.0000	0.0000	0.0000
270	0.0000	0.0000	0.0000
280	0.0000	0.0000	0.0000
290	0.0000	0.0000	0.0000
300	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
310	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000
330	0.0000	0.0000	0.0000
340	0.0000	0.0000	0.0000
350	0.0000	0.0000	0.0000
360	0.0000	0.0000	0.0000
370	0.0000	0.0000	0.0000
380	0.0000	0.0000	0.0000
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.38: Output for Problem 5.1-L4-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000
40	0.9999	0.9999	0.9999
50	0.9999	0.9998	0.9998
60	0.9996	0.9996	0.9996
70	0.9991	0.9991	0.9991
80	0.9981	0.9979	0.9979
90	0.9960	0.9957	0.9957
100	0.9921	0.9916	0.9916
110	0.9854	0.9844	0.9844
120	0.9743	0.9727	0.9727
130	0.9570	0.9546	0.9546
140	0.9313	0.9280	0.9280
150	0.8955	0.8910	0.8910
160	0.8495	0.8424	0.8424
170	0.7812	0.7816	0.7816
180	0.6726	0.7094	0.7094
190	0.5885	0.6281	0.6281
200	0.5000	0.5409	0.5409
210	0.4115	0.4521	0.4521
220	0.3274	0.3659	0.3659
230	0.2512	0.2863	0.2863
240	0.1855	0.2163	0.2163

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
250	0.1318	0.1576	0.1576
260	0.0899	0.1106	0.1106
270	0.0588	0.0747	0.0747
280	0.0368	0.0485	0.0485
290	0.0221	0.0303	0.0303
300	0.0127	0.0182	0.0182
310	0.0070	0.0105	0.0105
320	0.0036	0.0059	0.0059
330	0.0018	0.0031	0.0031
340	0.0009	0.0016	0.0016
350	0.0004	0.0008	0.0008
360	0.0002	0.0004	0.0004
370	0.0001	0.0002	0.0002
380	0.0000	0.0001	0.0001
390	0.0000	0.0000	0.0000
400	0.0000	0.0000	0.0000

Table B.5.39: Output for Problem 5.2-A-X-Y0Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	1.0987e-09	0.0000e+00	0.0000e+00
-240	4.7766e-09	2.1880e-09	2.1880e-09
-210	2.0884e-08	1.2995e-08	1.2995e-08
-180	9.2081e-08	6.3923e-08	6.3923e-08
-150	4.1095e-07	3.0828e-07	3.0828e-07
-120	1.8670e-06	1.5094e-06	1.5094e-06
-90	8.7237e-06	7.6390e-06	7.6390e-06
-60	4.2841e-05	4.0889e-05	4.0889e-05
-30	2.3592e-04	2.3973e-04	2.3973e-04
0	2.3239e-03	1.6094e-03	1.6094e-03
30	9.6484e-04	1.0441e-03	1.0441e-03
60	7.1651e-04	7.7564e-04	7.7564e-04
90	5.9669e-04	6.3117e-04	6.3117e-04
120	5.2226e-04	5.4334e-04	5.4334e-04
150	4.7011e-04	4.8413e-04	4.8413e-04
180	4.3079e-04	4.4086e-04	4.4086e-04
210	3.9957e-04	4.0726e-04	4.0726e-04
240	3.7375e-04	3.7988e-04	3.7988e-04
270	3.5158e-04	3.5664e-04	3.5664e-04

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
300	3.3188e-04	3.3614e-04	3.3614e-04
330	3.1374e-04	3.1737e-04	3.1737e-04
360	2.9645e-04	2.9955e-04	2.9955e-04
390	2.7943e-04	2.8207e-04	2.8207e-04
420	2.6223e-04	2.6443e-04	2.6443e-04
450	2.4451e-04	2.4630e-04	2.4630e-04
480	2.2606e-04	2.2746e-04	2.2746e-04
510	2.0682e-04	2.0785e-04	2.0785e-04
540	1.8686e-04	1.8758e-04	1.8758e-04
570	1.6641e-04	1.6687e-04	1.6687e-04
600	1.4582e-04	1.4608e-04	1.4608e-04
630	1.2552e-04	1.2566e-04	1.2566e-04
660	1.0596e-04	1.0607e-04	1.0607e-04
690	8.7617e-05	8.7748e-05	8.7748e-05
720	7.0870e-05	7.1068e-05	7.1068e-05
750	5.6012e-05	5.6301e-05	5.6301e-05
780	4.3214e-05	4.3595e-05	4.3595e-05
810	3.2517e-05	3.2972e-05	3.2972e-05
840	2.3845e-05	2.4346e-05	2.4346e-05
870	1.7028e-05	1.7543e-05	1.7543e-05
900	1.1836e-05	1.2339e-05	1.2339e-05
930	8.0025e-06	8.5239e-06	8.5239e-06
960	5.2608e-06	7.1226e-06	7.1226e-06

Table B.5.40: Output for Problem 5.2-A-Y-X0Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	1.0857e-10	3.7318e-10	3.7318e-10
-240	6.8394e-10	8.3159e-10	8.3159e-10
-210	4.0198e-09	4.5595e-09	4.5595e-09
-180	2.2523e-08	2.4602e-08	2.4602e-08
-150	1.2302e-07	1.3100e-07	1.3100e-07
-120	6.6952e-07	6.9969e-07	6.9969e-07
-90	3.7120e-06	3.8189e-06	3.8189e-06
-60	2.1612e-05	2.1914e-05	2.1914e-05
-30	1.4251e-04	1.4271e-04	1.4271e-04
0	2.3239e-03	1.6094e-03	1.6094e-03
30	1.4251e-04	1.4271e-04	1.4271e-04
60	2.1612e-05	2.1914e-05	2.1914e-05

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x	$A(x)$	P_{v1}	P_{v2}
90	3.7120e-06	3.8189e-06	3.8189e-06
120	6.6952e-07	6.9969e-07	6.9969e-07
150	1.2302e-07	1.3100e-07	1.3100e-07
180	2.2523e-08	2.4602e-08	2.4602e-08
210	4.0198e-09	4.5595e-09	4.5595e-09
240	6.8394e-10	8.3160e-10	8.3160e-10
270	1.0857e-10	3.7318e-10	3.7318e-10

Table B.5.41: Output for Problem 5.2-A-Y-X420Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	4.1159e-08	1.3719e-07	1.3719e-07
-240	2.1233e-07	2.6212e-07	2.6212e-07
-210	9.5099e-07	1.0579e-06	1.0579e-06
-180	3.6864e-06	3.8741e-06	3.8741e-06
-150	1.2276e-05	1.2430e-05	1.2430e-05
-120	3.4643e-05	3.4372e-05	3.4372e-05
-90	8.1168e-05	8.0089e-05	8.0089e-05
-60	1.5376e-04	1.5263e-04	1.5263e-04
-30	2.2898e-04	2.2971e-04	2.2971e-04
0	2.6223e-04	2.6443e-04	2.6443e-04
30	2.2898e-04	2.2971e-04	2.2971e-04
60	1.5376e-04	1.5263e-04	1.5263e-04
90	8.1168e-05	8.0089e-05	8.0089e-05
120	3.4643e-05	3.4372e-05	3.4372e-05
150	1.2276e-05	1.2430e-05	1.2430e-05
180	3.6864e-06	3.8741e-06	3.8741e-06
210	9.5099e-07	1.0579e-06	1.0579e-06
240	2.1233e-07	2.6212e-07	2.6212e-07
270	4.1159e-08	1.3719e-07	1.3719e-07

Table B.5.42: Output for Problem 5.2-B-XY-Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	4.6556e-12	0.0000e+00	0.0000e+00
-240	3.7026e-11	2.8481e-11	2.8481e-11
-210	2.9384e-10	3.1963e-10	3.1963e-10

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x	$A(x)$	P_{v1}	P_{v2}
-180	2.3396e-09	2.6354e-09	2.6354e-09
-150	1.8801e-08	2.0962e-08	2.0962e-08
-120	1.5360e-07	1.6790e-07	1.6790e-07
-90	1.2905e-06	1.3739e-06	1.3739e-06
-60	1.1411e-05	1.1694e-05	1.1694e-05
-30	1.1375e-04	1.0872e-04	1.0872e-04
0	2.3239e-03	1.5003e-03	1.5003e-03
30	8.3369e-04	7.2829e-04	7.2829e-04
60	6.1297e-04	5.6239e-04	5.6239e-04
90	5.0804e-04	4.7646e-04	4.7646e-04
120	4.4319e-04	4.2094e-04	4.2094e-04
150	3.9758e-04	3.8073e-04	3.8073e-04
180	3.6262e-04	3.4916e-04	3.4916e-04
210	3.3378e-04	3.2255e-04	3.2255e-04
240	3.0825e-04	2.9850e-04	2.9850e-04
270	2.8406e-04	2.7524e-04	2.7524e-04
300	2.5975e-04	2.5150e-04	2.5150e-04
330	2.3434e-04	2.2642e-04	2.2642e-04
360	2.0739e-04	1.9971e-04	1.9971e-04
390	1.7903e-04	1.7164e-04	1.7164e-04
420	1.4995e-04	1.4300e-04	1.4300e-04
450	1.2127e-04	1.1498e-04	1.1498e-04
480	9.4285e-05	8.8875e-05	8.8875e-05
510	7.0212e-05	6.5815e-05	6.5815e-05
540	4.9918e-05	4.6568e-05	4.6568e-05
570	3.3790e-05	3.1413e-05	3.1413e-05
600	2.1727e-05	2.0165e-05	2.0165e-05
630	1.3246e-05	1.2302e-05	1.2302e-05
660	7.6438e-06	7.1255e-06	7.1255e-06
690	4.1696e-06	3.9151e-06	3.9151e-06
720	2.1479e-06	2.0395e-06	2.0395e-06
750	1.0436e-06	1.0070e-06	1.0070e-06
780	4.7792e-07	4.7115e-07	4.7115e-07
810	2.0614e-07	2.0888e-07	2.0888e-07
840	8.3696e-08	8.7750e-08	8.7750e-08
870	3.1971e-08	3.4937e-08	3.4937e-08
900	1.1485e-08	1.3188e-08	1.3188e-08
930	3.8785e-09	4.7446e-09	4.7446e-09
960	1.2308e-09	2.8197e-09	2.8197e-09

Table B.5.43: Output for Problem 5.2-B-Y-X0Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	4.6443e-14	0.0000e+00	0.0000e+00
-240	1.0656e-12	3.4382e-14	3.4382e-14
-210	1.9235e-11	2.7249e-13	2.7249e-13
-180	2.8277e-10	-1.0283e-11	-1.0283e-11
-150	3.5509e-09	-1.4173e-10	-1.4173e-10
-120	4.0402e-08	3.6085e-11	3.6085e-11
-90	4.4348e-07	3.8138e-08	3.8138e-08
-60	4.9988e-06	1.4401e-06	1.4401e-06
-30	6.3610e-05	4.7469e-05	4.7469e-05
0	2.3239e-03	1.5003e-03	1.5003e-03
30	6.3610e-05	4.7469e-05	4.7469e-05
60	4.9988e-06	1.4401e-06	1.4401e-06
90	4.4348e-07	3.8138e-08	3.8138e-08
120	4.0402e-08	3.6085e-11	3.6085e-11
150	3.5509e-09	-1.4173e-10	-1.4173e-10
180	2.8277e-10	-1.0283e-11	-1.0283e-11
210	1.9235e-11	2.7249e-13	2.7249e-13
240	1.0656e-12	3.4382e-14	3.4382e-14
270	4.6443e-14	0.0000e+00	0.0000e+00

Table B.5.44: Output for Problem 5.2-B-Y-X424Z1

x	$A(x)$	P_{v1}	P_{v2}
30	2.6659e-11	8.9890e-12	8.9890e-12
60	5.5202e-10	-7.7558e-12	-7.7558e-12
90	8.5532e-09	-2.0811e-09	-2.0811e-09
120	9.9654e-08	-3.1661e-09	-3.1661e-09
150	8.7457e-07	3.6954e-07	3.6954e-07
180	5.7414e-06	4.7746e-06	4.7746e-06
210	2.7534e-05	2.8504e-05	2.8504e-05
240	9.1899e-05	9.6735e-05	9.6735e-05
270	1.9880e-04	1.9837e-04	1.9837e-04
300	2.5975e-04	2.5150e-04	2.5150e-04
330	1.9880e-04	1.9837e-04	1.9837e-04
360	9.1899e-05	9.6735e-05	9.6735e-05
390	2.7534e-05	2.8504e-05	2.8504e-05

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x	$A(x)$	P_{v1}	P_{v2}
420	5.7414e-06	4.7746e-06	4.7746e-06
450	8.7457e-07	3.6954e-07	3.6954e-07
480	9.9654e-08	-3.1661e-09	-3.1661e-09
510	8.5532e-09	-2.0811e-09	-2.0811e-09
540	5.5202e-10	-7.7558e-12	-7.7558e-12
570	2.6659e-11	8.9890e-12	8.9890e-12

Table B.5.45: Output for Problem 5.2-C-X-Y0Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	7.4912e-10	0.0000e+00	0.0000e+00
-240	3.6662e-09	1.7886e-09	1.7886e-09
-210	1.7526e-08	1.1137e-08	1.1137e-08
-180	8.2425e-08	5.7617e-08	5.7617e-08
-150	3.8459e-07	2.8942e-07	2.8942e-07
-120	1.7988e-06	1.4573e-06	1.4573e-06
-90	8.5563e-06	7.5043e-06	7.5043e-06
-60	4.2452e-05	4.0562e-05	4.0562e-05
-30	2.3507e-04	2.3898e-04	2.3898e-04
0	2.5741e-03	1.6078e-03	1.6078e-03
30	9.6135e-04	1.0409e-03	1.0409e-03
60	7.1002e-04	7.6943e-04	7.6943e-04
90	5.8524e-04	6.2001e-04	6.2001e-04
120	5.0317e-04	5.2444e-04	5.2444e-04
150	4.3996e-04	4.5390e-04	4.5390e-04
180	3.8561e-04	3.9520e-04	3.9520e-04
210	3.3532e-04	3.4198e-04	3.4198e-04
240	2.8686e-04	2.9139e-04	2.9139e-04
270	2.3971e-04	2.4265e-04	2.4265e-04
300	1.9447e-04	1.9627e-04	1.9627e-04
330	1.5234e-04	1.5344e-04	1.5344e-04
360	1.1472e-04	1.1546e-04	1.1546e-04
390	8.2721e-05	8.3370e-05	8.3370e-05
420	5.6936e-05	5.7617e-05	5.7617e-05
450	3.7303e-05	3.8042e-05	3.8042e-05
480	2.3212e-05	2.3964e-05	2.3964e-05
510	1.3693e-05	1.4389e-05	1.4389e-05
540	7.6454e-06	8.2300e-06	8.2300e-06
570	4.0350e-06	4.4829e-06	4.4829e-06

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x	$A(x)$	P_{v1}	P_{v2}
600	2.0107e-06	2.3252e-06	2.3252e-06
630	9.4531e-07	1.1485e-06	1.1485e-06
660	4.1886e-07	5.4032e-07	5.4032e-07
690	1.7481e-07	2.4221e-07	2.4221e-07
720	6.8683e-08	1.0349e-07	1.0349e-07
750	2.5390e-08	4.2174e-08	4.2174e-08
780	8.8276e-09	1.6399e-08	1.6399e-08
810	2.8854e-09	6.0885e-09	6.0885e-09
840	8.8638e-10	2.1596e-09	2.1596e-09
870	2.5583e-10	7.3226e-10	7.3226e-10
900	6.9358e-11	2.3748e-10	2.3748e-10
930	1.7658e-11	7.3154e-11	7.3154e-11
960	4.2210e-12	3.8238e-11	3.8238e-11

Table B.5.46: Output for Problem 5.2-C-Y-X0Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	1.4703e-12	2.4509e-11	2.4509e-11
-240	3.0837e-11	9.0066e-11	9.0066e-11
-210	4.9010e-10	9.7446e-10	9.7446e-10
-180	6.0039e-09	9.0440e-09	9.0440e-09
-150	5.8151e-08	7.2872e-08	7.2872e-08
-120	4.6243e-07	5.1828e-07	5.1828e-07
-90	3.1886e-06	3.3603e-06	3.3603e-06
-60	2.0585e-05	2.1002e-05	2.1002e-05
-30	1.4096e-04	1.4131e-04	1.4131e-04
0	2.5741e-03	1.6078e-03	1.6078e-03
30	1.4096e-04	1.4131e-04	1.4131e-04
60	2.0585e-05	2.1002e-05	2.1002e-05
90	3.1886e-06	3.3603e-06	3.3603e-06
120	4.6243e-07	5.1828e-07	5.1828e-07
150	5.8151e-08	7.2872e-08	7.2872e-08
180	6.0039e-09	9.0441e-09	9.0441e-09
210	4.9010e-10	9.7446e-10	9.7446e-10
240	3.0837e-11	9.0066e-11	9.0066e-11
270	1.4703e-12	2.4509e-11	2.4509e-11

Table B.5.47: Output for Problem 5.2-C-Y-X420Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	2.8721e-11	4.2491e-10	4.2491e-10
-240	5.4054e-10	1.4375e-09	1.4375e-09
-210	7.4092e-09	1.3255e-08	1.3255e-08
-180	7.3806e-08	9.9361e-08	9.9361e-08
-150	5.3225e-07	5.9627e-07	5.9627e-07
-120	2.7590e-06	2.7951e-06	2.7951e-06
-90	1.0171e-05	9.9309e-06	9.9309e-06
-60	2.6284e-05	2.5784e-05	2.5784e-05
-30	4.6872e-05	4.6926e-05	4.6926e-05
0	5.6936e-05	5.7617e-05	5.7617e-05
30	4.6872e-05	4.6926e-05	4.6926e-05
60	2.6284e-05	2.5784e-05	2.5784e-05
90	1.0171e-05	9.9310e-06	9.9310e-06
120	2.7590e-06	2.7951e-06	2.7951e-06
150	5.3225e-07	5.9628e-07	5.9628e-07
180	7.3806e-08	9.9361e-08	9.9361e-08
210	7.4092e-09	1.3256e-08	1.3256e-08
240	5.4054e-10	1.4376e-09	1.4376e-09
270	2.8721e-11	4.2492e-10	4.2492e-10

Table B.5.48: Output for Problem 5.2-D-X-Y0Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	8.1095e-11	0.0000e+00	0.0000e+00
-240	4.6152e-10	2.3821e-10	2.3821e-10
-210	2.6461e-09	1.7159e-09	1.7159e-09
-180	1.5319e-08	1.0823e-08	1.0823e-08
-150	8.9856e-08	6.8305e-08	6.8305e-08
-120	5.3704e-07	4.4051e-07	4.4051e-07
-90	3.3046e-06	2.9425e-06	2.9425e-06
-60	2.1413e-05	2.0743e-05	2.0743e-05
-30	1.5640e-04	1.5836e-04	1.5836e-04
0	2.0856e-03	1.3469e-03	1.3469e-03
30	6.3963e-04	6.8970e-04	6.8970e-04
60	3.5813e-04	3.9348e-04	3.9348e-04
90	2.2603e-04	2.4311e-04	2.4311e-04

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x	$A(x)$	P_{v1}	P_{v2}
120	1.5022e-04	1.5852e-04	1.5852e-04
150	1.0279e-04	1.0708e-04	1.0708e-04
180	7.1669e-05	7.4047e-05	7.4047e-05
210	5.0628e-05	5.2033e-05	5.2033e-05
240	3.6112e-05	3.6986e-05	3.6986e-05
270	2.5950e-05	2.6516e-05	2.6516e-05
300	1.8757e-05	1.9136e-05	1.9136e-05
330	1.3622e-05	1.3882e-05	1.3882e-05
360	9.9313e-06	1.0113e-05	1.0113e-05
390	7.2631e-06	7.3921e-06	7.3921e-06
420	5.3249e-06	5.4175e-06	5.4175e-06
450	3.9112e-06	3.9783e-06	3.9783e-06
480	2.8762e-06	2.9251e-06	2.9251e-06
510	2.1161e-06	2.1518e-06	2.1518e-06
540	1.5562e-06	1.5823e-06	1.5823e-06
570	1.1428e-06	1.1619e-06	1.1619e-06
600	8.3693e-07	8.5099e-07	8.5099e-07
630	6.1049e-07	6.2082e-07	6.2082e-07
660	4.4282e-07	4.5045e-07	4.5045e-07
690	3.1888e-07	3.2456e-07	3.2456e-07
720	2.2755e-07	2.3184e-07	2.3184e-07
750	1.6063e-07	1.6392e-07	1.6392e-07
780	1.1195e-07	1.1452e-07	1.1452e-07
810	7.6897e-08	7.8942e-08	7.8942e-08
840	5.1969e-08	5.3609e-08	5.3609e-08
870	3.4501e-08	3.5820e-08	3.5820e-08
900	2.2465e-08	2.3531e-08	2.3531e-08
930	1.4327e-08	1.5263e-08	1.5263e-08
960	8.9391e-09	1.2368e-08	1.2368e-08

Table B.5.49: Output for Problem 5.2-D-Y-X0Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	6.1981e-13	3.6754e-12	3.6754e-12
-240	5.9232e-12	1.0794e-11	1.0794e-11
-210	5.6241e-11	9.4184e-11	9.4184e-11
-180	5.3598e-10	8.2815e-10	8.2815e-10
-150	5.1654e-09	7.3727e-09	7.3727e-09
-120	5.0725e-08	6.6902e-08	6.6902e-08

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x	$A(x)$	P_{v1}	P_{v2}
-90	5.1352e-07	6.2588e-07	6.2588e-07
-60	5.4924e-06	6.1876e-06	6.1876e-06
-30	6.6891e-05	6.9896e-05	6.9896e-05
0	2.0856e-03	1.3469e-03	1.3469e-03
30	6.6891e-05	6.9896e-05	6.9896e-05
60	5.4924e-06	6.1876e-06	6.1876e-06
90	5.1352e-07	6.2588e-07	6.2588e-07
120	5.0725e-08	6.6902e-08	6.6902e-08
150	5.1654e-09	7.3727e-09	7.3727e-09
180	5.3598e-10	8.2815e-10	8.2815e-10
210	5.6241e-11	9.4184e-11	9.4184e-11
240	5.9232e-12	1.0794e-11	1.0794e-11
270	6.1981e-13	3.6754e-12	3.6754e-12

Table B.5.50: Output for Problem 5.2-D-Y-X420Z1

x	$A(x)$	P_{v1}	P_{v2}
-270	1.2558e-10	5.0826e-10	5.0826e-10
-240	8.0986e-10	1.1130e-09	1.1130e-09
-210	4.6656e-09	5.6857e-09	5.6857e-09
-180	2.3748e-08	2.6495e-08	2.6495e-08
-150	1.0464e-07	1.0907e-07	1.0907e-07
-120	3.8698e-07	3.8593e-07	3.8593e-07
-90	1.1536e-06	1.1306e-06	1.1306e-06
-60	2.6453e-06	2.6115e-06	2.6115e-06
-30	4.4559e-06	4.4856e-06	4.4856e-06
0	5.3249e-06	5.4175e-06	5.4175e-06
30	4.4559e-06	4.4856e-06	4.4856e-06
60	2.6453e-06	2.6115e-06	2.6115e-06
90	1.1536e-06	1.1306e-06	1.1306e-06
120	3.8698e-07	3.8593e-07	3.8593e-07
150	1.0464e-07	1.0907e-07	1.0907e-07
180	2.3748e-08	2.6495e-08	2.6495e-08
210	4.6656e-09	5.6857e-09	5.6857e-09
240	8.0986e-10	1.1130e-09	1.1130e-09
270	1.2558e-10	5.0826e-10	5.0826e-10

Table B.5.51: Output for Problem 5.3-BaseCase-X-Y0Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.5587e-10	0.0000e+00	0.0000e+00
-240	7.1916e-10	3.4623e-10	3.4623e-10
-210	3.3669e-09	2.1676e-09	2.1676e-09
-180	1.6080e-08	1.1539e-08	1.1539e-08
-150	7.8954e-08	6.1734e-08	6.1734e-08
-120	4.0372e-07	3.4598e-07	3.4598e-07
-90	2.2017e-06	2.1005e-06	2.1005e-06
-60	1.3507e-05	1.4473e-05	1.4473e-05
-30	1.1052e-04	1.1972e-04	1.1972e-04
0	4.8804e-03	1.2365e-03	1.2365e-03
30	4.5197e-04	5.2142e-04	5.2142e-04
60	2.2590e-04	2.7454e-04	2.7454e-04
90	1.5059e-04	1.7355e-04	1.7355e-04
120	1.1293e-04	1.2452e-04	1.2452e-04
150	9.0320e-05	9.6871e-05	9.6871e-05
180	7.5227e-05	7.9334e-05	7.9334e-05
210	6.4419e-05	6.7208e-05	6.7208e-05
240	5.6271e-05	5.8275e-05	5.8275e-05
270	4.9877e-05	5.1368e-05	5.1368e-05
300	4.4684e-05	4.5813e-05	4.5813e-05
330	4.0334e-05	4.1189e-05	4.1189e-05
360	3.6581e-05	3.7216e-05	3.7216e-05
390	3.3250e-05	3.3702e-05	3.3702e-05
420	3.0214e-05	3.0509e-05	3.0509e-05
450	2.7381e-05	2.7542e-05	2.7542e-05
480	2.4687e-05	2.4739e-05	2.4739e-05
510	2.2092e-05	2.2062e-05	2.2062e-05
540	1.9578e-05	1.9494e-05	1.9494e-05
570	1.7143e-05	1.7035e-05	1.7035e-05
600	1.4801e-05	1.4699e-05	1.4699e-05
630	1.2576e-05	1.2506e-05	1.2506e-05
660	1.0498e-05	1.0477e-05	1.0477e-05
690	8.5959e-06	8.6350e-06	8.6350e-06
720	6.8933e-06	6.9946e-06	6.9946e-06
750	5.4073e-06	5.5646e-06	5.5646e-06
780	4.1444e-06	4.3456e-06	4.3456e-06
810	3.1004e-06	3.3297e-06	3.3297e-06

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x	$A(x)$	P_{v1}	P_{v2}
840	2.2619e-06	2.5025e-06	2.5025e-06
870	1.6081e-06	1.8445e-06	1.8445e-06
900	1.1132e-06	1.3341e-06	1.3341e-06
930	7.5000e-07	9.5317e-07	9.5317e-07
960	4.9148e-07	8.1155e-07	8.1155e-07

Table B.5.52: Output for Problem 5.3-BaseCase-Y-X120Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.3098e-10	4.9758e-10	4.9758e-10
-240	8.3179e-10	1.1132e-09	1.1132e-09
-210	4.9260e-09	6.1337e-09	6.1337e-09
-180	2.7711e-08	3.3029e-08	3.3029e-08
-150	1.5041e-07	1.7272e-07	1.7272e-07
-120	7.9369e-07	8.7705e-07	8.7705e-07
-90	4.0297e-06	4.2596e-06	4.2596e-06
-60	1.8645e-05	1.8829e-05	1.8829e-05
-30	6.5700e-05	6.6054e-05	6.6054e-05
0	1.1293e-04	1.2452e-04	1.2452e-04
30	6.5700e-05	6.6054e-05	6.6054e-05
60	1.8645e-05	1.8829e-05	1.8829e-05
90	4.0297e-06	4.2596e-06	4.2596e-06
120	7.9369e-07	8.7705e-07	8.7705e-07
150	1.5041e-07	1.7273e-07	1.7273e-07
180	2.7711e-08	3.3029e-08	3.3029e-08
210	4.9260e-09	6.1337e-09	6.1337e-09
240	8.3179e-10	1.1132e-09	1.1132e-09
270	1.3098e-10	4.9758e-10	4.9758e-10

Table B.5.53: Output for Problem 5.3-BaseCase-Z-X120Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.3098e-10	4.9758e-10	4.9758e-10
-240	8.3179e-10	1.1132e-09	1.1132e-09
-210	4.9260e-09	6.1337e-09	6.1337e-09

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x	$A(x)$	P_{v1}	P_{v2}
-180	2.7711e-08	3.3029e-08	3.3029e-08
-150	1.5041e-07	1.7272e-07	1.7272e-07
-120	7.9369e-07	8.7705e-07	8.7705e-07
-90	4.0297e-06	4.2596e-06	4.2596e-06
-60	1.8645e-05	1.8829e-05	1.8829e-05
-30	6.5700e-05	6.6054e-05	6.6054e-05
0	1.1293e-04	1.2452e-04	1.2452e-04
30	6.5700e-05	6.6054e-05	6.6054e-05
60	1.8645e-05	1.8829e-05	1.8829e-05
90	4.0297e-06	4.2596e-06	4.2596e-06
120	7.9369e-07	8.7705e-07	8.7705e-07
150	1.5041e-07	1.7273e-07	1.7273e-07
180	2.7711e-08	3.3029e-08	3.3029e-08
210	4.9260e-09	6.1337e-09	6.1337e-09
240	8.3179e-10	1.1132e-09	1.1132e-09
270	1.3098e-10	4.9758e-10	4.9758e-10

Table B.5.54: Output for Problem 5.3-BaseCase-Y-X210Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	5.4254e-10	2.0258e-09	2.0258e-09
-240	3.2784e-09	4.3408e-09	4.3408e-09
-210	1.8088e-08	2.1933e-08	2.1933e-08
-180	9.1979e-08	1.0539e-07	1.0539e-07
-150	4.3231e-07	4.7202e-07	4.7202e-07
-120	1.8576e-06	1.9414e-06	1.9414e-06
-90	7.0399e-06	7.0966e-06	7.0966e-06
-60	2.1779e-05	2.1616e-05	2.1616e-05
-30	4.8115e-05	4.8760e-05	4.8760e-05
0	6.4419e-05	6.7208e-05	6.7208e-05
30	4.8115e-05	4.8760e-05	4.8760e-05
60	2.1779e-05	2.1616e-05	2.1616e-05
90	7.0399e-06	7.0966e-06	7.0966e-06
120	1.8576e-06	1.9414e-06	1.9414e-06
150	4.3231e-07	4.7202e-07	4.7202e-07
180	9.1979e-08	1.0539e-07	1.0539e-07
210	1.8088e-08	2.1933e-08	2.1933e-08
240	3.2784e-09	4.3408e-09	4.3408e-09

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x	$A(x)$	P_{v1}	P_{v2}
270	5.4254e-10	2.0258e-09	2.0258e-09

Table B.5.55: Output for Problem 5.3-BaseCase-Z-X210Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	5.4254e-10	2.0258e-09	2.0258e-09
-240	3.2784e-09	4.3408e-09	4.3408e-09
-210	1.8088e-08	2.1933e-08	2.1933e-08
-180	9.1979e-08	1.0539e-07	1.0539e-07
-150	4.3231e-07	4.7202e-07	4.7202e-07
-120	1.8576e-06	1.9414e-06	1.9414e-06
-90	7.0399e-06	7.0966e-06	7.0966e-06
-60	2.1779e-05	2.1616e-05	2.1616e-05
-30	4.8115e-05	4.8760e-05	4.8760e-05
0	6.4419e-05	6.7208e-05	6.7208e-05
30	4.8115e-05	4.8760e-05	4.8760e-05
60	2.1779e-05	2.1616e-05	2.1616e-05
90	7.0399e-06	7.0966e-06	7.0966e-06
120	1.8576e-06	1.9414e-06	1.9414e-06
150	4.3231e-07	4.7202e-07	4.7202e-07
180	9.1979e-08	1.0539e-07	1.0539e-07
210	1.8088e-08	2.1933e-08	2.1933e-08
240	3.2784e-09	4.3408e-09	4.3408e-09
270	5.4254e-10	2.0258e-09	2.0258e-09

Table B.5.56: Output for Problem 5.3-A-1-X-Y0Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.5587e-10	0.0000e+00	0.0000e+00
-240	7.1916e-10	4.6491e-10	4.6491e-10
-210	3.3669e-09	2.7283e-09	2.7283e-09
-180	1.6080e-08	1.3885e-08	1.3885e-08
-150	7.8954e-08	7.0867e-08	7.0867e-08
-120	4.0372e-07	3.7651e-07	3.7651e-07
-90	2.2017e-06	2.1555e-06	2.1555e-06
-60	1.3507e-05	1.4285e-05	1.4285e-05

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x	$A(x)$	P_{v1}	P_{v2}
-30	1.1052e-04	1.2890e-04	1.2890e-04
0	4.8804e-03	1.9958e-03	1.9958e-03
30	4.5197e-04	5.4143e-04	5.4143e-04
60	2.2590e-04	2.5205e-04	2.5205e-04
90	1.5059e-04	1.5977e-04	1.5977e-04
120	1.1293e-04	1.1724e-04	1.1724e-04
150	9.0320e-05	9.2795e-05	9.2795e-05
180	7.5227e-05	7.6826e-05	7.6826e-05
210	6.4419e-05	6.5525e-05	6.5525e-05
240	5.6271e-05	5.7067e-05	5.7067e-05
270	4.9877e-05	5.0456e-05	5.0456e-05
300	4.4684e-05	4.5099e-05	4.5099e-05
330	4.0334e-05	4.0614e-05	4.0614e-05
360	3.6581e-05	3.6744e-05	3.6744e-05
390	3.3250e-05	3.3309e-05	3.3309e-05
420	3.0214e-05	3.0181e-05	3.0181e-05
450	2.7381e-05	2.7268e-05	2.7268e-05
480	2.4687e-05	2.4511e-05	2.4511e-05
510	2.2092e-05	2.1873e-05	2.1873e-05
540	1.9578e-05	1.9339e-05	1.9339e-05
570	1.7143e-05	1.6910e-05	1.6910e-05
600	1.4801e-05	1.4599e-05	1.4599e-05
630	1.2576e-05	1.2426e-05	1.2426e-05
660	1.0498e-05	1.0413e-05	1.0413e-05
690	8.5959e-06	8.5828e-06	8.5828e-06
720	6.8933e-06	6.9513e-06	6.9513e-06
750	5.4073e-06	5.5279e-06	5.5279e-06
780	4.1444e-06	4.3136e-06	4.3136e-06
810	3.1004e-06	3.3014e-06	3.3014e-06
840	2.2619e-06	2.4774e-06	2.4774e-06
870	1.6081e-06	1.8225e-06	1.8225e-06
900	1.1132e-06	1.3163e-06	1.3163e-06
930	7.5000e-07	9.4580e-07	9.4580e-07
960	4.9148e-07	7.8767e-07	7.8767e-07

Table B.5.57: Output for Problem 5.3-A-1-Y-X120Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.3098e-10	3.5479e-10	3.5479e-10

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x	$A(x)$	P_{v1}	P_{v2}
-240	8.3179e-10	9.5691e-10	9.5691e-10
-210	4.9260e-09	5.4081e-09	5.4081e-09
-180	2.7711e-08	2.9875e-08	2.9875e-08
-150	1.5041e-07	1.5975e-07	1.5975e-07
-120	7.9369e-07	8.2942e-07	8.2942e-07
-90	4.0297e-06	4.1278e-06	4.1278e-06
-60	1.8645e-05	1.8691e-05	1.8691e-05
-30	6.5700e-05	6.5758e-05	6.5758e-05
0	1.1293e-04	1.1724e-04	1.1724e-04
30	6.5700e-05	6.5758e-05	6.5758e-05
60	1.8645e-05	1.8691e-05	1.8691e-05
90	4.0297e-06	4.1279e-06	4.1279e-06
120	7.9369e-07	8.2944e-07	8.2944e-07
150	1.5041e-07	1.5976e-07	1.5976e-07
180	2.7711e-08	2.9880e-08	2.9880e-08
210	4.9260e-09	5.4099e-09	5.4099e-09
240	8.3179e-10	9.5757e-10	9.5757e-10
270	1.3098e-10	3.5517e-10	3.5517e-10

Table B.5.58: Output for Problem 5.3-A-1-Z-X120Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.3098e-10	3.5479e-10	3.5479e-10
-240	8.3179e-10	9.5691e-10	9.5691e-10
-210	4.9260e-09	5.4081e-09	5.4081e-09
-180	2.7711e-08	2.9875e-08	2.9875e-08
-150	1.5041e-07	1.5975e-07	1.5975e-07
-120	7.9369e-07	8.2942e-07	8.2942e-07
-90	4.0297e-06	4.1278e-06	4.1278e-06
-60	1.8645e-05	1.8691e-05	1.8691e-05
-30	6.5700e-05	6.5758e-05	6.5758e-05
0	1.1293e-04	1.1724e-04	1.1724e-04
30	6.5700e-05	6.5758e-05	6.5758e-05
60	1.8645e-05	1.8691e-05	1.8691e-05
90	4.0297e-06	4.1279e-06	4.1279e-06
120	7.9369e-07	8.2944e-07	8.2944e-07
150	1.5041e-07	1.5976e-07	1.5976e-07
180	2.7711e-08	2.9880e-08	2.9880e-08
210	4.9260e-09	5.4099e-09	5.4099e-09

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x	$A(x)$	P_{v1}	P_{v2}
240	8.3179e-10	9.5757e-10	9.5757e-10
270	1.3098e-10	3.5517e-10	3.5517e-10

Table B.5.59: Output for Problem 5.3-A-1-Y-X210Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	5.4254e-10	1.4592e-09	1.4592e-09
-240	3.2784e-09	3.7559e-09	3.7559e-09
-210	1.8088e-08	1.9600e-08	1.9600e-08
-180	9.1979e-08	9.7271e-08	9.7271e-08
-150	4.3231e-07	4.4817e-07	4.4817e-07
-120	1.8576e-06	1.8904e-06	1.8904e-06
-90	7.0399e-06	7.0529e-06	7.0529e-06
-60	2.1779e-05	2.1681e-05	2.1681e-05
-30	4.8115e-05	4.8381e-05	4.8381e-05
0	6.4419e-05	6.5525e-05	6.5525e-05
30	4.8115e-05	4.8381e-05	4.8381e-05
60	2.1779e-05	2.1682e-05	2.1682e-05
90	7.0399e-06	7.0530e-06	7.0530e-06
120	1.8576e-06	1.8905e-06	1.8905e-06
150	4.3231e-07	4.4821e-07	4.4821e-07
180	9.1979e-08	9.7291e-08	9.7291e-08
210	1.8088e-08	1.9608e-08	1.9608e-08
240	3.2784e-09	3.7589e-09	3.7589e-09
270	5.4254e-10	1.4609e-09	1.4609e-09

Table B.5.60: Output for Problem 5.3-A-1-Z-X210Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	5.4254e-10	1.4592e-09	1.4592e-09
-240	3.2784e-09	3.7559e-09	3.7559e-09
-210	1.8088e-08	1.9600e-08	1.9600e-08
-180	9.1979e-08	9.7271e-08	9.7271e-08
-150	4.3231e-07	4.4817e-07	4.4817e-07
-120	1.8576e-06	1.8904e-06	1.8904e-06
-90	7.0399e-06	7.0529e-06	7.0529e-06
-60	2.1779e-05	2.1681e-05	2.1681e-05

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x	$A(x)$	P_{v1}	P_{v2}
-30	4.8115e-05	4.8381e-05	4.8381e-05
0	6.4419e-05	6.5525e-05	6.5525e-05
30	4.8115e-05	4.8381e-05	4.8381e-05
60	2.1779e-05	2.1682e-05	2.1682e-05
90	7.0399e-06	7.0530e-06	7.0530e-06
120	1.8576e-06	1.8905e-06	1.8905e-06
150	4.3231e-07	4.4821e-07	4.4821e-07
180	9.1979e-08	9.7291e-08	9.7291e-08
210	1.8088e-08	1.9608e-08	1.9608e-08
240	3.2784e-09	3.7589e-09	3.7589e-09
270	5.4254e-10	1.4609e-09	1.4609e-09

Table B.5.61: Output for Problem 5.3-A-2-X-Y0Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	5.2319e-12	0.0000e+00	0.0000e+00
-240	3.4442e-11	1.0790e-11	1.0790e-11
-210	2.2522e-10	1.0141e-10	1.0141e-10
-180	1.4815e-09	7.8389e-10	7.8389e-10
-150	9.9382e-09	5.9418e-09	5.9418e-09
-120	6.9127e-08	4.6340e-08	4.6340e-08
-90	5.1179e-07	3.8568e-07	3.8568e-07
-60	4.2590e-06	3.7053e-06	3.7053e-06
-30	4.7233e-05	5.4912e-05	5.4912e-05
0	4.8833e-03	1.8610e-03	1.8610e-03
30	1.2787e-04	1.7213e-04	1.7213e-04
60	3.1215e-05	3.1952e-05	3.1952e-05
90	1.0155e-05	9.0629e-06	9.0629e-06
120	3.7132e-06	3.0157e-06	3.0157e-06
150	1.4452e-06	1.0783e-06	1.0783e-06
180	5.8326e-07	4.0045e-07	4.0045e-07
210	2.4003e-07	1.5143e-07	1.5143e-07
240	9.9376e-08	5.7446e-08	5.7446e-08
270	4.0868e-08	2.1585e-08	2.1585e-08
300	1.6491e-08	7.9450e-09	7.9450e-09
330	6.4522e-09	2.8382e-09	2.8382e-09
360	2.4214e-09	9.7680e-10	9.7680e-10
390	8.6331e-10	3.2214e-10	3.2214e-10
420	2.9001e-10	1.0144e-10	1.0144e-10

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x	$A(x)$	P_{v1}	P_{v2}
450	9.1186e-11	3.0433e-11	3.0433e-11
480	2.6686e-11	8.6911e-12	8.6911e-12
510	7.2369e-12	2.3626e-12	2.3626e-12
540	1.8122e-12	6.1178e-13	6.1178e-13
570	4.1783e-13	1.5107e-13	1.5107e-13
600	8.8512e-14	3.5628e-14	3.5628e-14
630	1.7191e-14	8.0383e-15	8.0383e-15
660	3.0569e-15	1.7380e-15	1.7380e-15
690	4.9706e-16	3.6077e-16	3.6077e-16
720	7.3832e-17	7.2022e-17	7.2022e-17
750	1.0009e-17	1.3851e-17	1.3851e-17
780	1.2377e-18	2.5700e-18	2.5700e-18
810	1.3950e-19	4.6073e-19	4.6073e-19
840	1.4324e-20	7.9904e-20	7.9904e-20
870	1.3393e-21	1.3420e-20	1.3420e-20
900	1.1400e-22	2.1854e-21	2.1854e-21
930	8.8304e-24	3.4658e-22	3.4658e-22
960	6.2223e-25	1.0162e-22	1.0162e-22

Table B.5.62: Output for Problem 5.3-A-2-Y-X120Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	4.8478e-13	0.0000e+00	0.0000e+00
-240	3.3325e-12	4.3971e-13	4.3971e-13
-210	2.1813e-11	4.6768e-12	4.6768e-12
-180	1.3694e-10	3.7669e-11	3.7669e-11
-150	8.3004e-10	2.7461e-10	2.7461e-10
-120	4.8785e-09	1.8996e-09	1.8996e-09
-90	2.7810e-08	1.2676e-08	1.2676e-08
-60	1.5268e-07	8.2024e-08	8.2024e-08
-30	7.9159e-07	5.1200e-07	5.1200e-07
0	3.7132e-06	3.0157e-06	3.0157e-06
30	1.4499e-05	1.4966e-05	1.4966e-05
60	4.1108e-05	4.4570e-05	4.4570e-05
90	7.3235e-05	7.3711e-05	7.3711e-05
120	7.9839e-05	7.7717e-05	7.7717e-05
150	6.0151e-05	6.0012e-05	6.0012e-05
180	3.6346e-05	3.7559e-05	3.7559e-05
210	1.9463e-05	2.0406e-05	2.0406e-05

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x	$A(x)$	P_{v1}	P_{v2}
240	9.7418e-06	9.9653e-06	9.9653e-06
270	4.6755e-06	5.6705e-06	5.6705e-06

Table B.5.63: Output for Problem 5.3-A-2-Z-X120Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	2.9557e-11	7.5625e-11	7.5625e-11
-240	1.7901e-10	1.9524e-10	1.9524e-10
-210	9.9053e-10	1.0211e-09	1.0211e-09
-180	5.0565e-09	5.0690e-09	5.0690e-09
-150	2.3891e-08	2.3325e-08	2.3325e-08
-120	1.0338e-07	9.8054e-08	9.8054e-08
-90	3.9538e-07	3.6280e-07	3.6280e-07
-60	1.2367e-06	1.0913e-06	1.0913e-06
-30	2.7607e-06	2.3216e-06	2.3216e-06
0	3.7132e-06	3.0157e-06	3.0157e-06
30	2.7607e-06	2.3216e-06	2.3216e-06
60	1.2367e-06	1.0913e-06	1.0913e-06
90	3.9538e-07	3.6280e-07	3.6280e-07
120	1.0338e-07	9.8057e-08	9.8057e-08
150	2.3891e-08	2.3326e-08	2.3326e-08
180	5.0565e-09	5.0698e-09	5.0698e-09
210	9.9053e-10	1.0214e-09	1.0214e-09
240	1.7901e-10	1.9535e-10	1.9535e-10
270	2.9557e-11	7.5687e-11	7.5687e-11

Table B.5.64: Output for Problem 5.3-A-2-Y-X210Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	3.6470e-14	0.0000e+00	0.0000e+00
-240	2.7314e-13	2.0017e-14	2.0017e-14
-210	1.9034e-12	2.4123e-13	2.4123e-13
-180	1.2387e-11	2.1432e-12	2.1432e-12
-150	7.5540e-11	1.6691e-11	1.6691e-11
-120	4.3279e-10	1.1915e-10	1.1915e-10
-90	2.3317e-09	7.9106e-10	7.9106e-10
-60	1.1787e-08	4.9068e-09	4.9068e-09

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x	$A(x)$	P_{v1}	P_{v2}
-30	5.5504e-08	2.8381e-08	2.8381e-08
0	2.4003e-07	1.5143e-07	1.5143e-07
30	9.3128e-07	7.2483e-07	7.2483e-07
60	3.1332e-06	2.9201e-06	2.9201e-06
90	8.7584e-06	9.0408e-06	9.0408e-06
120	1.9463e-05	2.0436e-05	2.0436e-05
150	3.3325e-05	3.4018e-05	3.4018e-05
180	4.3767e-05	4.3370e-05	4.3370e-05
210	4.5179e-05	4.4305e-05	4.4305e-05
240	3.8228e-05	3.7705e-05	3.7705e-05
270	2.7716e-05	3.0764e-05	3.0764e-05

Table B.5.65: Output for Problem 5.3-A-2-Z-X210Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.8102e-11	4.0759e-11	4.0759e-11
-240	9.8544e-11	9.4008e-11	9.4008e-11
-210	4.7216e-10	4.1081e-10	4.1081e-10
-180	1.9885e-09	1.6397e-09	1.6397e-09
-150	7.3069e-09	5.7369e-09	5.7369e-09
-120	2.3035e-08	1.7208e-08	1.7208e-08
-90	6.0520e-08	4.2882e-08	4.2882e-08
-60	1.2719e-07	8.5396e-08	8.5396e-08
-30	2.0399e-07	1.3101e-07	1.3101e-07
0	2.4003e-07	1.5143e-07	1.5143e-07
30	2.0399e-07	1.3101e-07	1.3101e-07
60	1.2719e-07	8.5399e-08	8.5399e-08
90	6.0520e-08	4.2884e-08	4.2884e-08
120	2.3035e-08	1.7209e-08	1.7209e-08
150	7.3069e-09	5.7381e-09	5.7381e-09
180	1.9885e-09	1.6402e-09	1.6402e-09
210	4.7216e-10	4.1104e-10	4.1104e-10
240	9.8544e-11	9.4097e-11	9.4097e-11
270	1.8102e-11	4.0812e-11	4.0812e-11

Table B.5.66: Output for Problem 5.3-A-3-X-Y0Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	5.2319e-12	0.0000e+00	0.0000e+00
-240	3.4442e-11	1.0790e-11	1.0790e-11
-210	2.2522e-10	1.0141e-10	1.0141e-10
-180	1.4815e-09	7.8389e-10	7.8389e-10
-150	9.9382e-09	5.9418e-09	5.9418e-09
-120	6.9127e-08	4.6340e-08	4.6340e-08
-90	5.1179e-07	3.8568e-07	3.8568e-07
-60	4.2590e-06	3.7053e-06	3.7053e-06
-30	4.7233e-05	5.4912e-05	5.4912e-05
0	4.8833e-03	1.8610e-03	1.8610e-03
30	1.2787e-04	1.7213e-04	1.7213e-04
60	3.1215e-05	3.1952e-05	3.1952e-05
90	1.0155e-05	9.0629e-06	9.0629e-06
120	3.7132e-06	3.0157e-06	3.0157e-06
150	1.4452e-06	1.0783e-06	1.0783e-06
180	5.8326e-07	4.0045e-07	4.0045e-07
210	2.4003e-07	1.5143e-07	1.5143e-07
240	9.9376e-08	5.7446e-08	5.7446e-08
270	4.0868e-08	2.1585e-08	2.1585e-08
300	1.6491e-08	7.9450e-09	7.9450e-09
330	6.4522e-09	2.8382e-09	2.8382e-09
360	2.4214e-09	9.7680e-10	9.7680e-10
390	8.6331e-10	3.2214e-10	3.2214e-10
420	2.9001e-10	1.0144e-10	1.0144e-10
450	9.1186e-11	3.0433e-11	3.0433e-11
480	2.6686e-11	8.6911e-12	8.6911e-12
510	7.2369e-12	2.3626e-12	2.3626e-12
540	1.8122e-12	6.1178e-13	6.1178e-13
570	4.1783e-13	1.5107e-13	1.5107e-13
600	8.8512e-14	3.5628e-14	3.5628e-14
630	1.7191e-14	8.0383e-15	8.0383e-15
660	3.0569e-15	1.7380e-15	1.7380e-15
690	4.9706e-16	3.6077e-16	3.6077e-16
720	7.3832e-17	7.2022e-17	7.2022e-17
750	1.0009e-17	1.3851e-17	1.3851e-17
780	1.2377e-18	2.5700e-18	2.5700e-18
810	1.3950e-19	4.6073e-19	4.6073e-19

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x	$A(x)$	P_{v1}	P_{v2}
840	1.4324e-20	7.9904e-20	7.9904e-20
870	1.3393e-21	1.3420e-20	1.3420e-20
900	1.1400e-22	2.1854e-21	2.1854e-21
930	8.8304e-24	3.4660e-22	3.4660e-22
960	6.2223e-25	1.0165e-22	1.0165e-22

Table B.5.67: Output for Problem 5.3-A-3-Y-X120Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	2.9557e-11	7.5625e-11	7.5625e-11
-240	1.7901e-10	1.9524e-10	1.9524e-10
-210	9.9053e-10	1.0211e-09	1.0211e-09
-180	5.0565e-09	5.0690e-09	5.0690e-09
-150	2.3891e-08	2.3325e-08	2.3325e-08
-120	1.0338e-07	9.8054e-08	9.8054e-08
-90	3.9538e-07	3.6280e-07	3.6280e-07
-60	1.2367e-06	1.0913e-06	1.0913e-06
-30	2.7607e-06	2.3216e-06	2.3216e-06
0	3.7132e-06	3.0157e-06	3.0157e-06
30	2.7607e-06	2.3216e-06	2.3216e-06
60	1.2367e-06	1.0913e-06	1.0913e-06
90	3.9538e-07	3.6280e-07	3.6280e-07
120	1.0338e-07	9.8057e-08	9.8057e-08
150	2.3891e-08	2.3326e-08	2.3326e-08
180	5.0565e-09	5.0698e-09	5.0698e-09
210	9.9053e-10	1.0214e-09	1.0214e-09
240	1.7901e-10	1.9535e-10	1.9535e-10
270	2.9557e-11	7.5687e-11	7.5687e-11

Table B.5.68: Output for Problem 5.3-A-3-Z-X120Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	4.8478e-13	0.0000e+00	0.0000e+00
-240	3.3325e-12	4.3971e-13	4.3971e-13
-210	2.1813e-11	4.6768e-12	4.6768e-12
-180	1.3694e-10	3.7669e-11	3.7669e-11
-150	8.3004e-10	2.7461e-10	2.7461e-10

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x	$A(x)$	P_{v1}	P_{v2}
-120	4.8785e-09	1.8996e-09	1.8996e-09
-90	2.7810e-08	1.2676e-08	1.2676e-08
-60	1.5268e-07	8.2024e-08	8.2024e-08
-30	7.9159e-07	5.1200e-07	5.1200e-07
0	3.7132e-06	3.0157e-06	3.0157e-06
30	1.4499e-05	1.4966e-05	1.4966e-05
60	4.1108e-05	4.4570e-05	4.4570e-05
90	7.3235e-05	7.3711e-05	7.3711e-05
120	7.9839e-05	7.7717e-05	7.7717e-05
150	6.0151e-05	6.0012e-05	6.0012e-05
180	3.6346e-05	3.7559e-05	3.7559e-05
210	1.9463e-05	2.0406e-05	2.0406e-05
240	9.7418e-06	9.9653e-06	9.9653e-06
270	4.6755e-06	5.6705e-06	5.6705e-06

Table B.5.69: Output for Problem 5.3-A-3-Y-X210Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.8102e-11	4.0759e-11	4.0759e-11
-240	9.8544e-11	9.4008e-11	9.4008e-11
-210	4.7216e-10	4.1081e-10	4.1081e-10
-180	1.9885e-09	1.6397e-09	1.6397e-09
-150	7.3069e-09	5.7369e-09	5.7369e-09
-120	2.3035e-08	1.7208e-08	1.7208e-08
-90	6.0520e-08	4.2882e-08	4.2882e-08
-60	1.2719e-07	8.5396e-08	8.5396e-08
-30	2.0399e-07	1.3101e-07	1.3101e-07
0	2.4003e-07	1.5143e-07	1.5143e-07
30	2.0399e-07	1.3101e-07	1.3101e-07
60	1.2719e-07	8.5399e-08	8.5399e-08
90	6.0520e-08	4.2884e-08	4.2884e-08
120	2.3035e-08	1.7209e-08	1.7209e-08
150	7.3069e-09	5.7381e-09	5.7381e-09
180	1.9885e-09	1.6402e-09	1.6402e-09
210	4.7216e-10	4.1104e-10	4.1104e-10
240	9.8544e-11	9.4097e-11	9.4097e-11
270	1.8102e-11	4.0812e-11	4.0812e-11

Table B.5.70: Output for Problem 5.3-A-3-Z-X210Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	3.6470e-14	0.0000e+00	0.0000e+00
-240	2.7314e-13	2.0017e-14	2.0017e-14
-210	1.9034e-12	2.4123e-13	2.4123e-13
-180	1.2387e-11	2.1432e-12	2.1432e-12
-150	7.5540e-11	1.6691e-11	1.6691e-11
-120	4.3279e-10	1.1915e-10	1.1915e-10
-90	2.3317e-09	7.9106e-10	7.9106e-10
-60	1.1787e-08	4.9068e-09	4.9068e-09
-30	5.5504e-08	2.8381e-08	2.8381e-08
0	2.4003e-07	1.5143e-07	1.5143e-07
30	9.3128e-07	7.2483e-07	7.2483e-07
60	3.1332e-06	2.9201e-06	2.9201e-06
90	8.7584e-06	9.0408e-06	9.0408e-06
120	1.9463e-05	2.0436e-05	2.0436e-05
150	3.3325e-05	3.4018e-05	3.4018e-05
180	4.3767e-05	4.3370e-05	4.3370e-05
210	4.5179e-05	4.4305e-05	4.4305e-05
240	3.8228e-05	3.7705e-05	3.7705e-05
270	2.7716e-05	3.0764e-05	3.0764e-05

Table B.5.71: Output for Problem 5.3-B-1-X-Y0Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	3.6137e-10	0.0000e+00	0.0000e+00
-240	1.6673e-09	1.1278e-09	1.1278e-09
-210	7.8059e-09	6.6634e-09	6.6634e-09
-180	3.7280e-08	3.4266e-08	3.4266e-08
-150	1.8305e-07	1.7718e-07	1.7718e-07
-120	9.3599e-07	9.5319e-07	9.5319e-07
-90	5.1044e-06	5.4657e-06	5.4657e-06
-60	3.1314e-05	3.4688e-05	3.4688e-05
-30	2.5622e-04	2.6260e-04	2.6260e-04
0	1.1315e-02	2.6964e-03	2.6964e-03
30	1.0479e-03	1.1031e-03	1.1031e-03
60	5.2372e-04	6.1206e-04	6.1206e-04
90	3.4914e-04	4.0511e-04	4.0511e-04

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x	$A(x)$	P_{v1}	P_{v2}
120	2.6182e-04	2.9682e-04	2.9682e-04
150	2.0940e-04	2.3198e-04	2.3198e-04
180	1.7441e-04	1.8954e-04	1.8954e-04
210	1.4935e-04	1.5988e-04	1.5988e-04
240	1.3046e-04	1.3804e-04	1.3804e-04
270	1.1563e-04	1.2125e-04	1.2125e-04
300	1.0360e-04	1.0784e-04	1.0784e-04
330	9.3510e-05	9.6742e-05	9.6742e-05
360	8.4809e-05	8.7267e-05	8.7267e-05
390	7.7087e-05	7.8927e-05	7.8927e-05
420	7.0049e-05	7.1384e-05	7.1384e-05
450	6.3481e-05	6.4402e-05	6.4402e-05
480	5.7235e-05	5.7823e-05	5.7823e-05
510	5.1219e-05	5.1552e-05	5.1552e-05
540	4.5389e-05	4.5546e-05	4.5546e-05
570	3.9743e-05	3.9801e-05	3.9801e-05
600	3.4314e-05	3.4344e-05	3.4344e-05
630	2.9157e-05	2.9219e-05	2.9219e-05
660	2.4340e-05	2.4479e-05	2.4479e-05
690	1.9929e-05	2.0171e-05	2.0171e-05
720	1.5981e-05	1.6333e-05	1.6333e-05
750	1.2536e-05	1.2987e-05	1.2987e-05
780	9.6084e-06	1.0133e-05	1.0133e-05
810	7.1880e-06	7.7545e-06	7.7545e-06
840	5.2441e-06	5.8186e-06	5.8186e-06
870	3.7281e-06	4.2804e-06	4.2804e-06
900	2.5809e-06	3.0914e-06	3.0914e-06
930	1.7388e-06	2.2213e-06	2.2213e-06
960	1.1395e-06	1.8499e-06	1.8499e-06

Table B.5.72: Output for Problem 5.3-B-1-Y-X120Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	3.0366e-10	8.3549e-10	8.3549e-10
-240	1.9284e-09	2.2553e-09	2.2553e-09
-210	1.1420e-08	1.2769e-08	1.2769e-08
-180	6.4244e-08	7.0742e-08	7.0742e-08
-150	3.4871e-07	3.8005e-07	3.8005e-07
-120	1.8401e-06	1.9881e-06	1.9881e-06

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x	$A(x)$	P_{v1}	P_{v2}
-90	9.3426e-06	1.0013e-05	1.0013e-05
-60	4.3228e-05	4.6119e-05	4.6119e-05
-30	1.5232e-04	1.6523e-04	1.6523e-04
0	2.6182e-04	2.9682e-04	2.9682e-04
30	1.5232e-04	1.6523e-04	1.6523e-04
60	4.3228e-05	4.6119e-05	4.6119e-05
90	9.3426e-06	1.0013e-05	1.0013e-05
120	1.8401e-06	1.9881e-06	1.9881e-06
150	3.4871e-07	3.8006e-07	3.8006e-07
180	6.4244e-08	7.0746e-08	7.0746e-08
210	1.1420e-08	1.2771e-08	1.2771e-08
240	1.9284e-09	2.2560e-09	2.2560e-09
270	3.0366e-10	8.3588e-10	8.3588e-10

Table B.5.73: Output for Problem 5.3-B-1-Z-X120Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	7.5815e-24	2.8435e-19	2.8435e-19
-240	1.6975e-20	9.4974e-18	9.4974e-18
-210	1.6791e-17	1.1542e-15	1.1542e-15
-180	7.5401e-15	1.0903e-13	1.0903e-13
-150	1.6145e-12	7.9528e-12	7.9528e-12
-120	1.8047e-10	4.5295e-10	4.5295e-10
-90	1.2351e-08	2.0970e-08	2.0970e-08
-60	6.4010e-07	8.3445e-07	8.3445e-07
-30	2.6995e-05	2.7079e-05	2.7079e-05
0	2.6182e-04	2.9682e-04	2.9682e-04
30	2.6995e-05	2.7079e-05	2.7079e-05
60	6.4010e-07	8.3445e-07	8.3445e-07
90	1.2351e-08	2.0971e-08	2.0971e-08
120	1.8047e-10	4.5302e-10	4.5302e-10
150	1.6145e-12	7.9564e-12	7.9564e-12
180	7.5401e-15	1.0914e-13	1.0914e-13
210	1.6791e-17	1.1563e-15	1.1563e-15
240	1.6975e-20	9.5276e-18	9.5276e-18
270	7.5815e-24	2.8561e-19	2.8561e-19

Table B.5.74: Output for Problem 5.3-B-1-Y-X210Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.2578e-09	3.4348e-09	3.4348e-09
-240	7.6006e-09	8.8465e-09	8.8465e-09
-210	4.1935e-08	4.6223e-08	4.6223e-08
-180	2.1325e-07	2.2986e-07	2.2986e-07
-150	1.0023e-06	1.0622e-06	1.0622e-06
-120	4.3066e-06	4.5001e-06	4.5001e-06
-90	1.6321e-05	1.6891e-05	1.6891e-05
-60	5.0493e-05	5.2319e-05	5.2319e-05
-30	1.1155e-04	1.1763e-04	1.1763e-04
0	1.4935e-04	1.5988e-04	1.5988e-04
30	1.1155e-04	1.1763e-04	1.1763e-04
60	5.0493e-05	5.2319e-05	5.2319e-05
90	1.6321e-05	1.6891e-05	1.6891e-05
120	4.3066e-06	4.5002e-06	4.5002e-06
150	1.0023e-06	1.0623e-06	1.0623e-06
180	2.1325e-07	2.2988e-07	2.2988e-07
210	4.1935e-08	4.6231e-08	4.6231e-08
240	7.6006e-09	8.8494e-09	8.8494e-09
270	1.2578e-09	3.4365e-09	3.4365e-09

Table B.5.75: Output for Problem 5.3-B-1-Z-X210Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	3.5833e-23	1.3873e-18	1.3873e-18
-240	7.9764e-20	4.5643e-17	4.5643e-17
-210	7.8175e-17	5.4068e-15	5.4068e-15
-180	3.4555e-14	4.9290e-13	4.9290e-13
-150	7.1842e-12	3.4046e-11	3.4046e-11
-120	7.5567e-10	1.7676e-09	1.7676e-09
-90	4.5180e-08	6.8990e-08	6.8990e-08
-60	1.7217e-06	1.9798e-06	1.9798e-06
-30	3.6279e-05	3.4789e-05	3.4789e-05
0	1.4935e-04	1.5988e-04	1.5988e-04
30	3.6279e-05	3.4789e-05	3.4789e-05
60	1.7217e-06	1.9798e-06	1.9798e-06
90	4.5180e-08	6.8994e-08	6.8994e-08

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x	$A(x)$	P_{v1}	P_{v2}
120	7.5567e-10	1.7679e-09	1.7679e-09
150	7.1842e-12	3.4062e-11	3.4062e-11
180	3.4555e-14	4.9341e-13	4.9341e-13
210	7.8175e-17	5.4170e-15	5.4170e-15
240	7.9764e-20	4.5787e-17	4.5787e-17
270	3.5833e-23	1.3933e-18	1.3933e-18

Table B.5.76: Output for Problem 5.3-B-2-X-Y0Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.2130e-11	0.0000e+00	0.0000e+00
-240	7.9849e-11	2.5358e-11	2.5358e-11
-210	5.2214e-10	2.3947e-10	2.3947e-10
-180	3.4348e-09	1.8587e-09	1.8587e-09
-150	2.3041e-08	1.4167e-08	1.4167e-08
-120	1.6026e-07	1.1167e-07	1.1167e-07
-90	1.1865e-06	9.5287e-07	9.5287e-07
-60	9.8741e-06	9.5694e-06	9.5694e-06
-30	1.0951e-04	1.2880e-04	1.2880e-04
0	1.1321e-02	2.4849e-03	2.4849e-03
30	2.9646e-04	3.8863e-04	3.8863e-04
60	7.2368e-05	8.2028e-05	8.2028e-05
90	2.3542e-05	2.2556e-05	2.2556e-05
120	8.6086e-06	7.3037e-06	7.3037e-06
150	3.3506e-06	2.5773e-06	2.5773e-06
180	1.3522e-06	9.5027e-07	9.5027e-07
210	5.5650e-07	3.5730e-07	3.5730e-07
240	2.3039e-07	1.3458e-07	1.3458e-07
270	9.4749e-08	4.9995e-08	4.9995e-08
300	3.8232e-08	1.8052e-08	1.8052e-08
330	1.4959e-08	6.2504e-09	6.2504e-09
360	5.6139e-09	2.0499e-09	2.0499e-09
390	2.0015e-09	6.2958e-10	6.2958e-10
420	6.7237e-10	1.7904e-10	1.7904e-10
450	2.1141e-10	4.6560e-11	4.6560e-11
480	6.1868e-11	1.0894e-11	1.0894e-11
510	1.6778e-11	2.2338e-12	2.2338e-12
540	4.2014e-12	3.8041e-13	3.8041e-13
570	9.6869e-13	4.5803e-14	4.5803e-14

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x	$A(x)$	P_{v1}	P_{v2}
600	2.0521e-13	4.8264e-16	4.8264e-16
630	3.9855e-14	-1.7919e-15	-1.7919e-15
660	7.0871e-15	-6.6974e-16	-6.6974e-16
690	1.1524e-15	-1.6596e-16	-1.6596e-16
720	1.7117e-16	-3.1943e-17	-3.1943e-17
750	2.3206e-17	-4.7742e-18	-4.7742e-18
780	2.8694e-18	-4.7420e-19	-4.7420e-19
810	3.2341e-19	2.8412e-21	2.8412e-21
840	3.3208e-20	1.5264e-20	1.5264e-20
870	3.1051e-21	4.4829e-21	4.4829e-21
900	2.6430e-22	8.8659e-22	8.8659e-22
930	2.0472e-23	1.3518e-22	1.3518e-22
960	1.4426e-24	3.4525e-23	3.4525e-23

Table B.5.77: Output for Problem 5.3-B-2-Y-X120Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.1239e-12	0.0000e+00	0.0000e+00
-240	7.7260e-12	9.3609e-13	9.3609e-13
-210	5.0570e-11	1.0384e-11	1.0384e-11
-180	3.1749e-10	8.6032e-11	8.6032e-11
-150	1.9244e-09	6.3804e-10	6.3804e-10
-120	1.1310e-08	4.4569e-09	4.4569e-09
-90	6.4474e-08	2.9919e-08	2.9919e-08
-60	3.5398e-07	1.9454e-07	1.9454e-07
-30	1.8352e-06	1.2221e-06	1.2221e-06
0	8.6086e-06	7.3037e-06	7.3037e-06
30	3.3615e-05	3.7013e-05	3.7013e-05
60	9.5304e-05	1.1122e-04	1.1122e-04
90	1.6979e-04	1.8367e-04	1.8367e-04
120	1.8510e-04	1.9225e-04	1.9225e-04
150	1.3945e-04	1.4701e-04	1.4701e-04
180	8.4265e-05	9.1105e-05	9.1105e-05
210	4.5123e-05	4.9075e-05	4.9075e-05
240	2.2585e-05	2.3804e-05	2.3804e-05
270	1.0840e-05	1.3498e-05	1.3498e-05

Table B.5.78: Output for Problem 5.3-B-2-Z-X120Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.9219e-24	7.0380e-20	7.0380e-20
-240	4.2913e-21	2.3325e-18	2.3325e-18
-210	4.2178e-18	2.7876e-16	2.7876e-16
-180	1.8695e-15	2.5598e-14	2.5598e-14
-150	3.8978e-13	1.7771e-12	1.7771e-12
-120	4.1147e-11	9.2465e-11	9.2465e-11
-90	2.4745e-09	3.6042e-09	3.6042e-09
-60	9.5368e-08	1.0282e-07	1.0282e-07
-30	2.0525e-06	1.7629e-06	1.7629e-06
0	8.6086e-06	7.3037e-06	7.3037e-06
30	2.0525e-06	1.7629e-06	1.7629e-06
60	9.5368e-08	1.0282e-07	1.0282e-07
90	2.4745e-09	3.6043e-09	3.6043e-09
120	4.1147e-11	9.2472e-11	9.2472e-11
150	3.8978e-13	1.7775e-12	1.7775e-12
180	1.8695e-15	2.5609e-14	2.5609e-14
210	4.2178e-18	2.7897e-16	2.7897e-16
240	4.2913e-21	2.3353e-18	2.3353e-18
270	1.9219e-24	7.0493e-20	7.0493e-20

Table B.5.79: Output for Problem 5.3-B-2-Y-X210Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	8.4553e-14	0.0000e+00	0.0000e+00
-240	6.3324e-13	3.0040e-14	3.0040e-14
-210	4.4130e-12	4.2130e-13	4.2130e-13
-180	2.8719e-11	4.1825e-12	4.1825e-12
-150	1.7513e-10	3.5151e-11	3.5151e-11
-120	1.0034e-09	2.6360e-10	2.6360e-10
-90	5.4059e-09	1.8037e-09	1.8037e-09
-60	2.7327e-08	1.1387e-08	1.1387e-08
-30	1.2868e-07	6.6532e-08	6.6532e-08
0	5.5650e-07	3.5730e-07	3.5730e-07
30	2.1591e-06	1.7202e-06	1.7202e-06
60	7.2641e-06	6.9739e-06	6.9739e-06
90	2.0305e-05	2.1698e-05	2.1698e-05

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x	$A(x)$	P_{v1}	P_{v2}
120	4.5123e-05	4.9145e-05	4.9145e-05
150	7.7261e-05	8.1764e-05	8.1764e-05
180	1.0147e-04	1.0402e-04	1.0402e-04
210	1.0474e-04	1.0597e-04	1.0597e-04
240	8.8628e-05	8.9927e-05	8.9927e-05
270	6.4257e-05	7.3258e-05	7.3258e-05

Table B.5.80: Output for Problem 5.3-B-2-Z-X210Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.6206e-24	6.0612e-20	6.0612e-20
-240	3.5608e-21	1.9066e-18	1.9066e-18
-210	3.4138e-18	2.0971e-16	2.0971e-16
-180	1.4524e-15	1.7337e-14	1.7337e-14
-150	2.8142e-13	1.0433e-12	1.0433e-12
-120	2.5811e-11	4.3948e-11	4.3948e-11
-90	1.1707e-09	1.2254e-09	1.2254e-09
-60	2.6198e-08	2.0375e-08	2.0375e-08
-30	2.3916e-07	1.5899e-07	1.5899e-07
0	5.5650e-07	3.5730e-07	3.5730e-07
30	2.3916e-07	1.5899e-07	1.5899e-07
60	2.6198e-08	2.0375e-08	2.0375e-08
90	1.1707e-09	1.2255e-09	1.2255e-09
120	2.5811e-11	4.3954e-11	4.3954e-11
150	2.8142e-13	1.0437e-12	1.0437e-12
180	1.4524e-15	1.7346e-14	1.7346e-14
210	3.4138e-18	2.0990e-16	2.0990e-16
240	3.5608e-21	1.9093e-18	1.9093e-18
270	1.6206e-24	6.0725e-20	6.0725e-20

Table B.5.81: Output for Problem 5.3-B-3-X-Y0Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	3.8982e-19	0.0000e+00	0.0000e+00
-240	4.2756e-17	-1.3368e-12	-1.3368e-12
-210	3.2322e-15	-2.2901e-11	-2.2901e-11
-180	1.7511e-13	5.3041e-11	5.3041e-11

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x	$A(x)$	P_{v1}	P_{v2}
-150	7.2328e-12	2.7271e-09	2.7271e-09
-120	2.4937e-10	1.0384e-08	1.0384e-08
-90	8.0496e-09	-2.8443e-07	-2.8443e-07
-60	2.7681e-07	-3.7897e-06	-3.7897e-06
-30	1.2508e-05	3.8227e-05	3.8227e-05
0	1.1321e-02	2.4813e-03	2.4813e-03
30	3.3862e-05	1.6019e-04	1.6019e-04
60	2.0287e-06	-2.1719e-05	-2.1719e-05
90	1.5972e-07	-7.9671e-06	-7.9671e-06
120	1.3395e-08	-3.4964e-07	-3.4964e-07
150	1.0518e-09	3.9788e-07	3.9788e-07
180	6.8938e-11	1.0218e-07	1.0218e-07
210	3.4448e-12	-7.4939e-09	-7.4939e-09
240	1.2337e-13	-9.3285e-09	-9.3285e-09
270	3.0450e-15	-1.3219e-09	-1.3219e-09
300	5.0543e-17	5.1814e-10	5.1814e-10
330	5.5550e-19	2.1237e-10	2.1237e-10
360	4.0016e-21	-8.7899e-12	-8.7899e-12
390	1.8763e-23	-1.9892e-11	-1.9892e-11
420	5.6986e-26	-1.8854e-12	-1.8854e-12
450	1.1171e-28	1.4271e-12	1.4271e-12
480	1.4098e-31	2.8336e-13	2.8336e-13
510	1.1430e-34	-8.4033e-14	-8.4033e-14
540	5.9513e-38	-2.5430e-14	-2.5430e-14
570	1.9834e-41	4.1681e-15	4.1681e-15
600	4.2305e-45	1.7664e-15	1.7664e-15
630	5.7705e-49	-1.7532e-16	-1.7532e-16
660	5.0299e-53	-1.0195e-16	-1.0195e-16
690	2.8002e-57	6.1791e-18	6.1791e-18
720	9.9514e-62	5.0403e-18	5.0403e-18
750	2.2566e-66	-1.7358e-19	-1.7358e-19
780	3.2640e-71	-2.1697e-19	-2.1697e-19
810	3.0105e-76	3.1942e-21	3.1942e-21
840	1.7701e-81	8.2144e-21	8.2144e-21
870	6.6327e-87	1.4391e-23	1.4391e-23
900	1.5836e-92	-2.7503e-22	-2.7503e-22
930	2.4088e-98	-4.0541e-24	-4.0541e-24
960	2.3337e-104	8.9186e-24	8.9186e-24

Table B.5.82: Output for Problem 5.3-B-3-Y-X120Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	2.1857e-12	-1.4116e-13	-1.4116e-13
-240	1.1271e-11	-7.7549e-13	-7.7549e-13
-210	5.0414e-11	-9.6705e-12	-9.6705e-12
-180	1.9490e-10	-1.0363e-10	-1.0363e-10
-150	6.4614e-10	-9.6026e-10	-9.6026e-10
-120	1.8121e-09	-7.6430e-09	-7.6430e-09
-90	4.2132e-09	-5.0060e-08	-5.0060e-08
-60	7.9191e-09	-2.3607e-07	-2.3607e-07
-30	1.1723e-08	-5.4773e-07	-5.4773e-07
0	1.3395e-08	-3.4964e-07	-3.4964e-07
30	1.1723e-08	-5.4773e-07	-5.4773e-07
60	7.9191e-09	-2.3607e-07	-2.3607e-07
90	4.2132e-09	-5.0060e-08	-5.0060e-08
120	1.8121e-09	-7.6431e-09	-7.6431e-09
150	6.4614e-10	-9.6026e-10	-9.6026e-10
180	1.9490e-10	-1.0363e-10	-1.0363e-10
210	5.0414e-11	-9.6705e-12	-9.6705e-12
240	1.1271e-11	-7.7548e-13	-7.7548e-13
270	2.1857e-12	-1.4116e-13	-1.4116e-13

Table B.5.83: Output for Problem 5.3-B-3-Z-X120Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	8.1283e-27	0.0000e+00	0.0000e+00
-240	4.1274e-24	-3.6762e-14	-3.6762e-14
-210	1.3648e-21	-2.5633e-13	-2.5633e-13
-180	2.9595e-19	2.8388e-12	2.8388e-12
-150	4.2512e-17	2.7685e-11	2.7685e-11
-120	4.1093e-15	-1.1379e-10	-1.1379e-10
-90	2.7360e-13	-2.6366e-09	-2.6366e-09
-60	1.3010e-11	1.7193e-09	1.7193e-09
-30	4.6568e-10	2.2671e-07	2.2671e-07
0	1.3395e-08	-3.4964e-07	-3.4964e-07
30	3.2568e-07	-9.8119e-06	-9.8119e-06
60	6.4245e-06	2.0711e-05	2.0711e-05
90	7.3144e-05	1.3076e-04	1.3076e-04

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x	$A(x)$	P_{v1}	P_{v2}
120	1.8510e-04	1.7956e-04	1.7956e-04
150	7.1882e-05	1.1293e-04	1.1293e-04
180	1.1562e-05	3.2976e-05	3.2976e-05
210	1.3849e-06	-5.2711e-07	-5.2711e-07
240	1.4037e-07	-3.5546e-06	-3.5546e-06
270	1.1735e-08	-1.3583e-06	-1.3583e-06

Table B.5.84: Output for Problem 5.3-B-3-Y-X210Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	2.3149e-15	3.1521e-14	3.1521e-14
-240	1.0374e-14	1.6453e-13	1.6453e-13
-210	3.9420e-14	1.8401e-12	1.8401e-12
-180	1.2670e-13	1.6623e-11	1.6623e-11
-150	3.4338e-13	1.1890e-10	1.1890e-10
-120	7.8202e-13	6.4176e-10	6.4176e-10
-90	1.4910e-12	2.3348e-09	2.3348e-09
-60	2.3716e-12	4.2316e-09	4.2316e-09
-30	3.1373e-12	-5.6491e-10	-5.6491e-10
0	3.4448e-12	-7.4939e-09	-7.4939e-09
30	3.1373e-12	-5.6490e-10	-5.6490e-10
60	2.3716e-12	4.2316e-09	4.2316e-09
90	1.4910e-12	2.3348e-09	2.3348e-09
120	7.8202e-13	6.4176e-10	6.4176e-10
150	3.4338e-13	1.1890e-10	1.1890e-10
180	1.2670e-13	1.6622e-11	1.6622e-11
210	3.9420e-14	1.8401e-12	1.8401e-12
240	1.0374e-14	1.6451e-13	1.6451e-13
270	2.3149e-15	3.1516e-14	3.1516e-14

Table B.5.85: Output for Problem 5.3-B-3-Z-X210Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.4866e-34	0.0000e+00	0.0000e+00
-240	2.5374e-31	-4.4318e-16	-4.4318e-16
-210	2.7877e-28	2.2378e-14	2.2378e-14
-180	1.9764e-25	1.8586e-14	1.8586e-14

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x	$A(x)$	P_{v1}	P_{v2}
-150	9.0716e-23	-1.3449e-12	-1.3449e-12
-120	2.7079e-20	-2.2182e-12	-2.2182e-12
-90	5.2893e-18	7.5600e-11	7.5600e-11
-60	6.8186e-16	2.1227e-10	2.1227e-10
-30	5.8758e-14	-4.4934e-09	-4.4934e-09
0	3.4448e-12	-7.4939e-09	-7.4939e-09
30	1.4083e-10	2.0161e-07	2.0161e-07
60	4.1347e-09	-8.4896e-08	-8.4896e-08
90	8.9172e-08	-3.8095e-06	-3.8095e-06
120	1.3849e-06	-5.0392e-07	-5.0392e-07
150	1.3648e-05	3.4675e-05	3.4675e-05
180	6.4150e-05	8.8359e-05	8.8359e-05
210	1.0474e-04	1.0843e-04	1.0843e-04
240	5.9581e-05	7.6812e-05	7.6812e-05
270	1.6241e-05	4.0682e-05	4.0682e-05

Table B.5.86: Output for Problem 5.3-C-3-X-Y0Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	3.8982e-19	0.0000e+00	0.0000e+00
-240	4.2756e-17	2.4096e-12	2.4096e-12
-210	3.2322e-15	3.4041e-11	3.4041e-11
-180	1.7511e-13	3.5577e-10	3.5577e-10
-150	7.2328e-12	3.7172e-09	3.7172e-09
-120	2.4937e-10	4.1257e-08	4.1257e-08
-90	8.0496e-09	5.0273e-07	5.0273e-07
-60	2.7681e-07	7.1980e-06	7.1980e-06
-30	1.2508e-05	1.3525e-04	1.3525e-04
0	1.1321e-02	3.1872e-03	3.1872e-03
30	3.3862e-05	5.1741e-05	5.1741e-05
60	2.0287e-06	-7.8034e-05	-7.8034e-05
90	1.5972e-07	1.2072e-05	1.2072e-05
120	1.3395e-08	3.4479e-06	3.4479e-06
150	1.0518e-09	-1.9174e-06	-1.9174e-06
180	6.8938e-11	8.6840e-08	8.6840e-08
210	3.4448e-12	1.9556e-07	1.9556e-07
240	1.2337e-13	-5.7822e-08	-5.7822e-08
270	3.0450e-15	-9.8185e-09	-9.8185e-09
300	5.0543e-17	9.7311e-09	9.7311e-09

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x	$A(x)$	P_{v1}	P_{v2}
330	5.5550e-19	-1.1709e-09	-1.1709e-09
360	4.0016e-21	-9.6707e-10	-9.6707e-10
390	1.8763e-23	4.0309e-10	4.0309e-10
420	5.6986e-26	1.8493e-11	1.8493e-11
450	1.1171e-28	-6.0777e-11	-6.0777e-11
480	1.4098e-31	1.6816e-11	1.6816e-11
510	1.1430e-34	4.6544e-12	4.6544e-12
540	5.9513e-38	-4.7474e-12	-4.7474e-12
570	1.9834e-41	3.4186e-13	3.4186e-13
600	4.2305e-45	8.9405e-13	8.9405e-13
630	5.7705e-49	-2.0311e-13	-2.0311e-13
660	5.0299e-53	-1.4167e-13	-1.4167e-13
690	2.8002e-57	4.5067e-14	4.5067e-14
720	9.9514e-62	2.0430e-14	2.0430e-14
750	2.2566e-66	-7.2129e-15	-7.2129e-15
780	3.2640e-71	-2.7592e-15	-2.7592e-15
810	3.0105e-76	9.2213e-16	9.2213e-16
840	1.7701e-81	3.4813e-16	3.4813e-16
870	6.6327e-87	-9.6331e-17	-9.6331e-17
900	1.5836e-92	-4.0233e-17	-4.0233e-17
930	2.4088e-98	8.1308e-18	8.1308e-18
960	2.3337e-104	5.8645e-18	5.8645e-18

Table B.5.87: Output for Problem 5.3-C-3-Y-X120Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	2.1857e-12	-1.2246e-15	-1.2246e-15
-240	1.1271e-11	1.6994e-15	1.6994e-15
-210	5.0414e-11	1.6987e-13	1.6987e-13
-180	1.9490e-10	2.4384e-12	2.4384e-12
-150	6.4614e-10	-9.8773e-12	-9.8773e-12
-120	1.8121e-09	-1.0120e-09	-1.0120e-09
-90	4.2132e-09	-1.7895e-08	-1.7895e-08
-60	7.9191e-09	-1.1036e-07	-1.1036e-07
-30	1.1723e-08	4.9199e-07	4.9199e-07
0	1.3395e-08	3.4479e-06	3.4479e-06
30	1.1723e-08	4.9199e-07	4.9199e-07
60	7.9191e-09	-1.1036e-07	-1.1036e-07
90	4.2132e-09	-1.7895e-08	-1.7895e-08

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x	$A(x)$	P_{v1}	P_{v2}
120	1.8121e-09	-1.0120e-09	-1.0120e-09
150	6.4614e-10	-9.8773e-12	-9.8773e-12
180	1.9490e-10	2.4384e-12	2.4384e-12
210	5.0414e-11	1.6987e-13	1.6987e-13
240	1.1271e-11	1.6994e-15	1.6994e-15
270	2.1857e-12	-1.2245e-15	-1.2245e-15

Table B.5.88: Output for Problem 5.3-C-3-Z-X120Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	8.1283e-27	0.0000e+00	0.0000e+00
-240	4.1274e-24	-2.1974e-15	-2.1974e-15
-210	1.3648e-21	2.9220e-14	2.9220e-14
-180	2.9595e-19	2.8762e-13	2.8762e-13
-150	4.2512e-17	-2.0914e-11	-2.0914e-11
-120	4.1093e-15	3.6834e-10	3.6834e-10
-90	2.7360e-13	9.3416e-10	9.3416e-10
-60	1.3010e-11	-1.4612e-07	-1.4612e-07
-30	4.6568e-10	4.8204e-07	4.8204e-07
0	1.3395e-08	3.4479e-06	3.4479e-06
30	3.2568e-07	-1.2404e-05	-1.2404e-05
60	6.4245e-06	4.4087e-06	4.4087e-06
90	7.3144e-05	1.4560e-04	1.4560e-04
120	1.8510e-04	1.6878e-04	1.6878e-04
150	7.1882e-05	9.7595e-05	9.7595e-05
180	1.1562e-05	3.8823e-05	3.8823e-05
210	1.3849e-06	1.2279e-05	1.2279e-05
240	1.4037e-07	3.0514e-06	3.0514e-06
270	1.1735e-08	5.6597e-07	5.6597e-07

Table B.5.89: Output for Problem 5.3-C-3-Y-X210Z0

x	$A(x)$	P_{v1}	P_{v2}
-270	2.3149e-15	2.5539e-15	2.5539e-15
-240	1.0374e-14	1.3056e-14	1.3056e-14
-210	3.9420e-14	8.8031e-14	8.8031e-14
-180	1.2670e-13	-7.3416e-13	-7.3416e-13

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x	$A(x)$	P_{v1}	P_{v2}
-150	3.4338e-13	-2.7125e-11	-2.7125e-11
-120	7.8202e-13	-3.0732e-10	-3.0732e-10
-90	1.4910e-12	-1.0493e-09	-1.0493e-09
-60	2.3716e-12	1.0240e-08	1.0240e-08
-30	3.1373e-12	9.5429e-08	9.5429e-08
0	3.4448e-12	1.9556e-07	1.9556e-07
30	3.1373e-12	9.5429e-08	9.5429e-08
60	2.3716e-12	1.0240e-08	1.0240e-08
90	1.4910e-12	-1.0493e-09	-1.0493e-09
120	7.8202e-13	-3.0732e-10	-3.0732e-10
150	3.4338e-13	-2.7125e-11	-2.7125e-11
180	1.2670e-13	-7.3416e-13	-7.3416e-13
210	3.9420e-14	8.8031e-14	8.8031e-14
240	1.0374e-14	1.3056e-14	1.3056e-14
270	2.3149e-15	2.5539e-15	2.5539e-15

Table B.5.90: Output for Problem 5.3-C-3-Z-X210Y0

x	$A(x)$	P_{v1}	P_{v2}
-270	1.4866e-34	0.0000e+00	0.0000e+00
-240	2.5374e-31	-1.0674e-15	-1.0674e-15
-210	2.7877e-28	6.1284e-15	6.1284e-15
-180	1.9764e-25	2.6079e-13	2.6079e-13
-150	9.0716e-23	-6.4151e-12	-6.4151e-12
-120	2.7079e-20	1.9438e-11	1.9438e-11
-90	5.2893e-18	1.1352e-09	1.1352e-09
-60	6.8186e-16	-7.3173e-09	-7.3173e-09
-30	5.8758e-14	-2.2282e-08	-2.2282e-08
0	3.4448e-12	1.9556e-07	1.9556e-07
30	1.4083e-10	-6.9122e-07	-6.9122e-07
60	4.1347e-09	1.8822e-06	1.8822e-06
90	8.9172e-08	-2.9171e-06	-2.9171e-06
120	1.3849e-06	-7.3358e-06	-7.3358e-06
150	1.3648e-05	3.8333e-05	3.8333e-05
180	6.4150e-05	9.3356e-05	9.3356e-05
210	1.0474e-04	1.0000e-04	1.0000e-04
240	5.9581e-05	6.9717e-05	6.9717e-05
270	1.6241e-05	3.4903e-05	3.4903e-05

Table B.5.91: Output for Problem 5.4-Th-230-Ra-226

x	$A(x)$	P_{v1}	P_{v2}
0.000	0.129	0.131	0.131
0.150	0.129	0.131	0.131
0.455	0.129	0.131	0.131
0.760	0.129	0.131	0.131
1.065	0.129	0.131	0.131
1.370	0.129	0.131	0.131
1.675	0.129	0.131	0.131
1.980	0.129	0.131	0.131
2.285	0.129	0.131	0.131
2.590	0.129	0.131	0.131
2.895	0.129	0.131	0.131
3.200	0.129	0.131	0.131
3.465	0.129	0.131	0.131
3.655	0.129	0.131	0.131
3.795	0.129	0.131	0.131
3.910	0.129	0.131	0.131
4.000	0.129	0.131	0.131
4.080	0.129	0.131	0.131
4.155	0.329	0.710	0.710
4.230	0.707	0.710	0.710
4.305	0.707	0.710	0.710
4.380	0.707	0.710	0.710
4.460	0.707	0.710	0.710
4.535	0.707	0.710	0.710
4.610	0.707	0.710	0.710
4.690	0.707	0.710	0.710
4.765	0.707	0.710	0.710
4.840	0.707	0.710	0.710
4.915	0.502	0.000	0.000
4.990	-0.000	0.000	0.000
5.070	-0.000	0.000	0.000
5.145	-0.000	0.000	0.000
5.220	-0.000	0.000	0.000
5.300	-0.000	0.000	0.000
5.375	-0.000	0.000	0.000
5.450	-0.000	0.000	0.000
5.525	-0.000	0.000	0.000

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x	$A(x)$	P_{v1}	P_{v2}
5.600	-0.000	0.000	0.000
5.680	-0.000	0.000	0.000
5.755	-0.000	0.000	0.000
5.830	-0.000	0.000	0.000
5.910	0.000	0.000	0.000
5.985	0.000	0.000	0.000
6.060	0.000	0.000	0.000
6.135	0.000	0.000	0.000
6.250	0.000	0.000	0.000
6.440	0.000	0.000	0.000
6.705	0.000	0.000	0.000
7.010	0.000	0.000	0.000
7.315	0.000	0.000	0.000
7.585	0.000	0.000	0.000
7.775	0.000	0.000	0.000
7.900	0.000	0.000	0.000
7.990	0.000	0.000	0.000
8.030	-0.000	0.000	0.000

Table B.5.92: Output for Problem 5.4-Th-230-Rn-222-flux

x	$A(x)$	P_{v1}	P_{v2}
1	6.783e-08	0.000e+00	0.000e+00
11	8.008e-07	0.000e+00	0.000e+00
21	1.529e-06	0.000e+00	0.000e+00
31	2.254e-06	0.000e+00	0.000e+00
41	2.971e-06	0.000e+00	0.000e+00
51	3.686e-06	0.000e+00	0.000e+00
61	4.401e-06	0.000e+00	0.000e+00
71	5.105e-06	0.000e+00	0.000e+00
81	5.800e-06	0.000e+00	0.000e+00
91	6.495e-06	0.000e+00	0.000e+00
101	7.190e-06	0.000e+00	0.000e+00
111	7.884e-06	0.000e+00	0.000e+00
121	8.579e-06	0.000e+00	0.000e+00
131	9.274e-06	0.000e+00	0.000e+00
141	9.949e-06	0.000e+00	0.000e+00
151	1.062e-05	0.000e+00	0.000e+00

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x	$A(x)$	P_{v1}	P_{v2}
161	1.130e-05	0.000e+00	0.000e+00
171	1.197e-05	0.000e+00	0.000e+00
181	1.265e-05	0.000e+00	0.000e+00
191	1.333e-05	0.000e+00	0.000e+00
201	1.399e-05	0.000e+00	0.000e+00
211	1.464e-05	0.000e+00	0.000e+00
221	1.528e-05	0.000e+00	0.000e+00
231	1.593e-05	0.000e+00	0.000e+00
241	1.658e-05	0.000e+00	0.000e+00
251	1.723e-05	0.000e+00	0.000e+00
261	1.787e-05	0.000e+00	0.000e+00
271	1.852e-05	0.000e+00	0.000e+00
281	1.917e-05	0.000e+00	0.000e+00
291	1.982e-05	0.000e+00	0.000e+00
301	2.045e-05	0.000e+00	0.000e+00
311	2.108e-05	0.000e+00	0.000e+00
321	2.170e-05	0.000e+00	0.000e+00
331	2.233e-05	0.000e+00	0.000e+00
341	2.295e-05	0.000e+00	0.000e+00
351	2.358e-05	0.000e+00	0.000e+00
361	2.420e-05	0.000e+00	0.000e+00
371	2.483e-05	0.000e+00	0.000e+00
381	2.545e-05	0.000e+00	0.000e+00
391	2.608e-05	0.000e+00	0.000e+00
401	2.669e-05	0.000e+00	0.000e+00
411	2.729e-05	0.000e+00	0.000e+00
421	2.789e-05	0.000e+00	0.000e+00
431	2.849e-05	0.000e+00	0.000e+00
441	2.908e-05	0.000e+00	0.000e+00
451	2.968e-05	0.000e+00	0.000e+00
461	3.028e-05	0.000e+00	0.000e+00
471	3.088e-05	0.000e+00	0.000e+00
481	3.148e-05	0.000e+00	0.000e+00
491	3.208e-05	0.000e+00	0.000e+00
501	3.267e-05	0.000e+00	0.000e+00
511	3.326e-05	0.000e+00	0.000e+00
521	3.384e-05	0.000e+00	0.000e+00
531	3.442e-05	0.000e+00	0.000e+00
541	3.500e-05	0.000e+00	0.000e+00
551	3.558e-05	0.000e+00	0.000e+00

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x	$A(x)$	P_{v1}	P_{v2}
561	3.616e-05	0.000e+00	0.000e+00
571	3.673e-05	0.000e+00	0.000e+00
581	3.730e-05	0.000e+00	0.000e+00
591	3.787e-05	0.000e+00	0.000e+00
601	3.843e-05	0.000e+00	0.000e+00
611	3.900e-05	0.000e+00	0.000e+00
621	3.956e-05	0.000e+00	0.000e+00
631	4.012e-05	0.000e+00	0.000e+00
641	4.067e-05	0.000e+00	0.000e+00
651	4.123e-05	0.000e+00	0.000e+00
661	4.178e-05	0.000e+00	0.000e+00
671	4.233e-05	0.000e+00	0.000e+00
681	4.287e-05	0.000e+00	0.000e+00
691	4.342e-05	0.000e+00	0.000e+00
701	4.396e-05	0.000e+00	0.000e+00
711	4.450e-05	0.000e+00	0.000e+00
721	4.504e-05	0.000e+00	0.000e+00
731	4.557e-05	0.000e+00	0.000e+00
741	4.610e-05	0.000e+00	0.000e+00
751	4.663e-05	0.000e+00	0.000e+00
761	4.716e-05	0.000e+00	0.000e+00
771	4.769e-05	0.000e+00	0.000e+00
781	4.821e-05	0.000e+00	0.000e+00
791	4.873e-05	0.000e+00	0.000e+00
801	4.925e-05	0.000e+00	0.000e+00
811	4.977e-05	0.000e+00	0.000e+00
821	5.028e-05	0.000e+00	0.000e+00
831	5.079e-05	0.000e+00	0.000e+00
841	5.130e-05	0.000e+00	0.000e+00
851	5.181e-05	0.000e+00	0.000e+00
861	5.231e-05	0.000e+00	0.000e+00
871	5.282e-05	0.000e+00	0.000e+00
881	5.332e-05	0.000e+00	0.000e+00
891	5.381e-05	0.000e+00	0.000e+00
901	5.431e-05	0.000e+00	0.000e+00
911	5.480e-05	0.000e+00	0.000e+00
921	5.529e-05	0.000e+00	0.000e+00
931	5.578e-05	0.000e+00	0.000e+00
941	5.627e-05	0.000e+00	0.000e+00
951	5.676e-05	0.000e+00	0.000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
961	5.724e-05	0.000e+00	0.000e+00
971	5.772e-05	0.000e+00	0.000e+00
981	5.820e-05	0.000e+00	0.000e+00
991	5.867e-05	0.000e+00	0.000e+00

Table B.5.93: Output for Problem 5.4-Th-230-Rn-222

x	$A(x)$	P_{v1}	P_{v2}
0.000	0.129	0.131	0.131
0.150	0.129	0.131	0.131
0.455	0.129	0.131	0.131
0.760	0.129	0.131	0.131
1.065	0.129	0.131	0.131
1.370	0.129	0.131	0.131
1.675	0.129	0.131	0.131
1.980	0.129	0.131	0.131
2.285	0.129	0.131	0.131
2.590	0.129	0.131	0.131
2.895	0.129	0.131	0.131
3.200	0.129	0.131	0.131
3.465	0.131	0.134	0.134
3.655	0.136	0.141	0.141
3.795	0.149	0.158	0.158
3.910	0.176	0.193	0.193
4.000	0.219	0.250	0.250
4.080	0.290	0.340	0.340
4.155	0.407	0.491	0.491
4.230	0.530	0.581	0.581
4.305	0.601	0.630	0.630
4.380	0.640	0.658	0.658
4.460	0.660	0.669	0.669
4.535	0.665	0.667	0.667
4.610	0.657	0.652	0.652
4.690	0.633	0.618	0.618
4.765	0.587	0.556	0.556
4.840	0.506	0.452	0.452
4.915	0.364	0.267	0.267
4.990	0.212	0.155	0.155
5.070	0.119	0.087	0.087

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
5.145	0.069	0.051	0.051
5.220	0.040	0.030	0.030
5.300	0.022	0.017	0.017
5.375	0.013	0.010	0.010
5.450	0.008	0.006	0.006
5.525	0.004	0.003	0.003
5.600	0.003	0.002	0.002
5.680	0.001	0.001	0.001
5.755	0.001	0.001	0.001
5.830	0.000	0.000	0.000
5.910	0.000	0.000	0.000
5.985	0.000	0.000	0.000
6.060	0.000	0.000	0.000
6.135	0.000	0.000	0.000
6.250	0.000	0.000	0.000
6.440	0.000	0.000	0.000
6.705	0.000	0.000	0.000
7.010	0.000	0.000	0.000
7.315	0.000	0.000	0.000
7.585	0.000	0.000	0.000
7.775	0.000	0.000	0.000
7.900	0.000	0.000	0.000
7.990	0.000	0.000	0.000
8.030	0.000	0.000	0.000

Table B.5.94: Output for Problem 5.4-Th-230-Th-230

x	$A(x)$	P_{v1}	P_{v2}
0.000	0.368	0.371	0.371
0.150	0.368	0.371	0.371
0.455	0.368	0.371	0.371
0.760	0.368	0.371	0.371
1.065	0.368	0.371	0.371
1.370	0.368	0.371	0.371
1.675	0.368	0.371	0.371
1.980	0.368	0.371	0.371
2.285	0.368	0.371	0.371
2.590	0.368	0.371	0.371
2.895	0.368	0.371	0.371

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x	$A(x)$	P_{v1}	P_{v2}
3.200	0.368	0.371	0.371
3.465	0.368	0.371	0.371
3.655	0.368	0.371	0.371
3.795	0.368	0.371	0.371
3.910	0.368	0.371	0.371
4.000	0.368	0.371	0.371
4.080	0.368	0.371	0.371
4.155	0.937	2.012	2.012
4.230	2.012	2.012	2.012
4.305	2.012	2.012	2.012
4.380	2.012	2.012	2.012
4.460	2.012	2.012	2.012
4.535	2.012	2.012	2.012
4.610	2.012	2.012	2.012
4.690	2.012	2.012	2.012
4.765	2.012	2.012	2.012
4.840	2.012	2.012	2.012
4.915	1.430	0.000	0.000
4.990	0.000	0.000	0.000
5.070	0.000	0.000	0.000
5.145	0.000	0.000	0.000
5.220	0.000	0.000	0.000
5.300	0.000	0.000	0.000
5.375	0.000	0.000	0.000
5.450	0.000	0.000	0.000
5.525	0.000	0.000	0.000
5.600	0.000	0.000	0.000
5.680	0.000	0.000	0.000
5.755	0.000	0.000	0.000
5.830	0.000	0.000	0.000
5.910	0.000	0.000	0.000
5.985	0.000	0.000	0.000
6.060	0.000	0.000	0.000
6.135	0.000	0.000	0.000
6.250	0.000	0.000	0.000
6.440	0.000	0.000	0.000
6.705	0.000	0.000	0.000
7.010	0.000	0.000	0.000
7.315	0.000	0.000	0.000
7.585	0.000	0.000	0.000

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x	$A(x)$	P_{v1}	P_{v2}
7.775	0.000	0.000	0.000
7.900	0.000	0.000	0.000
7.990	0.000	0.000	0.000
8.030	0.000	0.000	0.000

Table B.5.95: Output for Problem 5.5.1-phi-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.815	0.872	0.872
50	0.774	0.843	0.843
60	0.733	0.814	0.814
70	0.692	0.787	0.787
80	0.650	0.760	0.760
90	0.602	0.734	0.734
100	0.544	0.709	0.709
110	0.482	0.683	0.683
120	0.413	0.656	0.656
130	0.336	0.627	0.627
140	0.259	0.595	0.595
150	0.190	0.559	0.559
160	0.130	0.517	0.517
170	0.083	0.469	0.469
180	0.049	0.416	0.416
190	0.027	0.358	0.358
200	0.013	0.298	0.298
210	0.006	0.240	0.240
220	0.003	0.185	0.185
230	0.001	0.137	0.137
240	0.000	0.097	0.097
250	0.000	0.065	0.065
260	0.000	0.042	0.042
270	0.000	0.025	0.025
280	0.000	0.015	0.015
290	0.000	0.008	0.008
300	0.000	0.004	0.004

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x	$A(x)$	P_{v1}	P_{v2}
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.96: Output for Problem 5.5.1-phi-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.816	0.872	0.872
50	0.775	0.843	0.843
60	0.737	0.815	0.815
70	0.700	0.787	0.787
80	0.665	0.761	0.761
90	0.632	0.735	0.735
100	0.601	0.710	0.710
110	0.571	0.687	0.687
120	0.543	0.663	0.663
130	0.515	0.641	0.641
140	0.489	0.620	0.620
150	0.465	0.599	0.599
160	0.441	0.579	0.579
170	0.417	0.559	0.559
180	0.394	0.540	0.540
190	0.371	0.522	0.522
200	0.347	0.505	0.505
210	0.323	0.488	0.488
220	0.297	0.471	0.471
230	0.269	0.455	0.455
240	0.241	0.440	0.440

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x	$A(x)$	P_{v1}	P_{v2}
250	0.211	0.425	0.425
260	0.181	0.410	0.410
270	0.152	0.395	0.395
280	0.123	0.381	0.381
290	0.097	0.366	0.366
300	0.074	0.351	0.351
310	0.054	0.336	0.336
320	0.039	0.319	0.319
330	0.026	0.302	0.302
340	0.017	0.284	0.284
350	0.011	0.264	0.264
360	0.007	0.244	0.244
370	0.004	0.222	0.222
380	0.002	0.199	0.199
390	0.001	0.177	0.177
400	0.001	0.162	0.162

Table B.5.97: Output for Problem 5.5.1-phi-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.223	0.157	0.157
60	0.259	0.185	0.185
70	0.291	0.213	0.213
80	0.316	0.239	0.239
90	0.330	0.264	0.264
100	0.332	0.288	0.288
110	0.320	0.309	0.309
120	0.293	0.328	0.328
130	0.253	0.343	0.343
140	0.205	0.353	0.353
150	0.155	0.355	0.355
160	0.109	0.350	0.350
170	0.071	0.335	0.335
180	0.043	0.311	0.311

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x	$A(x)$	P_{v1}	P_{v2}
190	0.024	0.278	0.278
200	0.012	0.240	0.240
210	0.006	0.198	0.198
220	0.002	0.157	0.157
230	0.001	0.118	0.118
240	0.000	0.085	0.085
250	0.000	0.058	0.058
260	0.000	0.038	0.038
270	0.000	0.023	0.023
280	0.000	0.014	0.014
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.98: Output for Problem 5.5.1-phi-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.225	0.157	0.157
60	0.263	0.185	0.185
70	0.300	0.213	0.213
80	0.335	0.239	0.239
90	0.368	0.265	0.265
100	0.399	0.290	0.290
110	0.429	0.313	0.313
120	0.457	0.337	0.337

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x	$A(x)$	P_{v1}	P_{v2}
130	0.484	0.359	0.359
140	0.508	0.380	0.380
150	0.531	0.401	0.401
160	0.551	0.421	0.421
170	0.569	0.441	0.441
180	0.582	0.460	0.460
190	0.590	0.478	0.478
200	0.592	0.495	0.495
210	0.585	0.512	0.512
220	0.570	0.528	0.528
230	0.544	0.544	0.544
240	0.509	0.559	0.559
250	0.465	0.572	0.572
260	0.413	0.585	0.585
270	0.355	0.596	0.596
280	0.296	0.606	0.606
290	0.238	0.613	0.613
300	0.185	0.617	0.617
310	0.138	0.617	0.617
320	0.100	0.613	0.613
330	0.069	0.603	0.603
340	0.046	0.588	0.588
350	0.030	0.566	0.566
360	0.019	0.538	0.538
370	0.011	0.504	0.504
380	0.007	0.465	0.465
390	0.004	0.422	0.422
400	0.002	0.393	0.393

Table B.5.99: Output for Problem 5.5.1-wc-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.815	0.815	0.815
50	0.774	0.774	0.774
60	0.733	0.733	0.733

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x	$A(x)$	P_{v1}	P_{v2}
70	0.692	0.692	0.692
80	0.650	0.649	0.649
90	0.602	0.601	0.601
100	0.544	0.546	0.546
110	0.482	0.482	0.482
120	0.413	0.411	0.411
130	0.336	0.335	0.335
140	0.259	0.260	0.260
150	0.190	0.189	0.189
160	0.130	0.130	0.130
170	0.083	0.083	0.083
180	0.049	0.049	0.049
190	0.027	0.027	0.027
200	0.013	0.014	0.014
210	0.006	0.007	0.007
220	0.003	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.100: Output for Problem 5.5.1-wc-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000

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x	$A(x)$	P_{v1}	P_{v2}
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.816	0.816	0.816
50	0.775	0.775	0.775
60	0.737	0.737	0.737
70	0.700	0.700	0.700
80	0.665	0.665	0.665
90	0.632	0.632	0.632
100	0.601	0.601	0.601
110	0.571	0.571	0.571
120	0.543	0.542	0.542
130	0.515	0.515	0.515
140	0.489	0.490	0.490
150	0.465	0.465	0.465
160	0.441	0.441	0.441
170	0.417	0.418	0.418
180	0.394	0.394	0.394
190	0.371	0.371	0.371
200	0.347	0.347	0.347
210	0.323	0.323	0.323
220	0.297	0.297	0.297
230	0.269	0.269	0.269
240	0.241	0.240	0.240
250	0.211	0.210	0.210
260	0.181	0.180	0.180
270	0.152	0.151	0.151
280	0.123	0.123	0.123
290	0.097	0.097	0.097
300	0.074	0.074	0.074
310	0.054	0.055	0.055
320	0.039	0.039	0.039
330	0.026	0.027	0.027
340	0.017	0.018	0.018
350	0.011	0.011	0.011
360	0.007	0.007	0.007
370	0.004	0.004	0.004
380	0.002	0.002	0.002
390	0.001	0.001	0.001
400	0.001	0.001	0.001

Table B.5.101: Output for Problem 5.5.1-wc-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.223	0.223	0.223
60	0.259	0.260	0.260
70	0.291	0.291	0.291
80	0.316	0.316	0.316
90	0.330	0.330	0.330
100	0.332	0.333	0.333
110	0.320	0.320	0.320
120	0.293	0.292	0.292
130	0.253	0.252	0.252
140	0.205	0.204	0.204
150	0.155	0.155	0.155
160	0.109	0.109	0.109
170	0.071	0.071	0.071
180	0.043	0.043	0.043
190	0.024	0.024	0.024
200	0.012	0.013	0.013
210	0.006	0.006	0.006
220	0.002	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000

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x	$A(x)$	P_{v1}	P_{v2}
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.102: Output for Problem 5.5.1-wc-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.225	0.225	0.225
60	0.263	0.263	0.263
70	0.300	0.300	0.300
80	0.335	0.335	0.335
90	0.368	0.368	0.368
100	0.399	0.399	0.399
110	0.429	0.429	0.429
120	0.457	0.457	0.457
130	0.484	0.484	0.484
140	0.508	0.508	0.508
150	0.531	0.531	0.531
160	0.551	0.552	0.552
170	0.569	0.569	0.569
180	0.582	0.582	0.582
190	0.590	0.590	0.590
200	0.592	0.592	0.592
210	0.585	0.585	0.585
220	0.570	0.569	0.569
230	0.544	0.543	0.543
240	0.509	0.507	0.507
250	0.465	0.462	0.462
260	0.413	0.410	0.410
270	0.355	0.354	0.354
280	0.296	0.295	0.295
290	0.238	0.239	0.239
300	0.185	0.186	0.186

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x	$A(x)$	P_{v1}	P_{v2}
310	0.138	0.140	0.140
320	0.100	0.102	0.102
330	0.069	0.071	0.071
340	0.046	0.048	0.048
350	0.030	0.031	0.031
360	0.019	0.019	0.019
370	0.011	0.011	0.011
380	0.007	0.007	0.007
390	0.004	0.004	0.004
400	0.002	0.002	0.002

Table B.5.103: Output for Problem 5.5.2-A-phi-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.223	0.157	0.157
60	0.259	0.185	0.185
70	0.291	0.213	0.213
80	0.316	0.239	0.239
90	0.330	0.264	0.264
100	0.332	0.288	0.288
110	0.320	0.309	0.309
120	0.293	0.328	0.328
130	0.253	0.343	0.343
140	0.205	0.353	0.353
150	0.155	0.355	0.355
160	0.109	0.350	0.350
170	0.071	0.335	0.335
180	0.043	0.311	0.311
190	0.024	0.278	0.278
200	0.012	0.240	0.240
210	0.006	0.198	0.198
220	0.002	0.157	0.157
230	0.001	0.118	0.118
240	0.000	0.085	0.085

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
250	0.000	0.058	0.058
260	0.000	0.038	0.038
270	0.000	0.023	0.023
280	0.000	0.014	0.014
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.104: Output for Problem 5.5.2-A-phi-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.225	0.157	0.157
60	0.263	0.185	0.185
70	0.300	0.213	0.213
80	0.335	0.239	0.239
90	0.368	0.265	0.265
100	0.399	0.290	0.290
110	0.429	0.313	0.313
120	0.457	0.337	0.337
130	0.484	0.359	0.359
140	0.508	0.380	0.380
150	0.531	0.401	0.401
160	0.551	0.421	0.421
170	0.569	0.441	0.441
180	0.582	0.460	0.460

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190	0.590	0.478	0.478
200	0.592	0.495	0.495
210	0.585	0.512	0.512
220	0.570	0.528	0.528
230	0.544	0.544	0.544
240	0.509	0.559	0.559
250	0.465	0.572	0.572
260	0.413	0.585	0.585
270	0.355	0.596	0.596
280	0.296	0.606	0.606
290	0.238	0.613	0.613
300	0.185	0.617	0.617
310	0.138	0.617	0.617
320	0.100	0.613	0.613
330	0.069	0.603	0.603
340	0.046	0.588	0.588
350	0.030	0.566	0.566
360	0.019	0.538	0.538
370	0.011	0.504	0.504
380	0.007	0.465	0.465
390	0.004	0.422	0.422
400	0.002	0.393	0.393

Table B.5.105: Output for Problem 5.5.2-A-phi-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.815	0.872	0.872
50	0.774	0.843	0.843
60	0.733	0.814	0.814
70	0.692	0.787	0.787
80	0.650	0.760	0.760
90	0.602	0.734	0.734
100	0.544	0.709	0.709
110	0.482	0.683	0.683
120	0.413	0.656	0.656

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
130	0.336	0.627	0.627
140	0.259	0.595	0.595
150	0.190	0.559	0.559
160	0.130	0.517	0.517
170	0.083	0.469	0.469
180	0.049	0.416	0.416
190	0.027	0.358	0.358
200	0.013	0.298	0.298
210	0.006	0.240	0.240
220	0.003	0.185	0.185
230	0.001	0.137	0.137
240	0.000	0.097	0.097
250	0.000	0.065	0.065
260	0.000	0.042	0.042
270	0.000	0.025	0.025
280	0.000	0.015	0.015
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.106: Output for Problem 5.5.2-A-phi-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.816	0.872	0.872
50	0.775	0.843	0.843
60	0.737	0.815	0.815

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.700	0.787	0.787
80	0.665	0.761	0.761
90	0.632	0.735	0.735
100	0.601	0.710	0.710
110	0.571	0.687	0.687
120	0.543	0.663	0.663
130	0.515	0.641	0.641
140	0.489	0.620	0.620
150	0.465	0.599	0.599
160	0.441	0.579	0.579
170	0.417	0.559	0.559
180	0.394	0.540	0.540
190	0.371	0.522	0.522
200	0.347	0.505	0.505
210	0.323	0.488	0.488
220	0.297	0.471	0.471
230	0.269	0.455	0.455
240	0.241	0.440	0.440
250	0.211	0.425	0.425
260	0.181	0.410	0.410
270	0.152	0.395	0.395
280	0.123	0.381	0.381
290	0.097	0.366	0.366
300	0.074	0.351	0.351
310	0.054	0.336	0.336
320	0.039	0.319	0.319
330	0.026	0.302	0.302
340	0.017	0.284	0.284
350	0.011	0.264	0.264
360	0.007	0.244	0.244
370	0.004	0.222	0.222
380	0.002	0.199	0.199
390	0.001	0.177	0.177
400	0.001	0.162	0.162

Table B.5.107: Output for Problem 5.5.2-A-wc-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.223	0.223	0.223
60	0.259	0.260	0.260
70	0.291	0.291	0.291
80	0.316	0.316	0.316
90	0.330	0.330	0.330
100	0.332	0.333	0.333
110	0.320	0.320	0.320
120	0.293	0.292	0.292
130	0.253	0.252	0.252
140	0.205	0.204	0.204
150	0.155	0.155	0.155
160	0.109	0.109	0.109
170	0.071	0.071	0.071
180	0.043	0.043	0.043
190	0.024	0.024	0.024
200	0.012	0.013	0.013
210	0.006	0.006	0.006
220	0.002	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.108: Output for Problem 5.5.2-A-wc-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.225	0.225	0.225
60	0.263	0.263	0.263
70	0.300	0.300	0.300
80	0.335	0.335	0.335
90	0.368	0.368	0.368
100	0.399	0.399	0.399
110	0.429	0.429	0.429
120	0.457	0.457	0.457
130	0.484	0.484	0.484
140	0.508	0.508	0.508
150	0.531	0.531	0.531
160	0.551	0.552	0.552
170	0.569	0.569	0.569
180	0.582	0.582	0.582
190	0.590	0.590	0.590
200	0.592	0.592	0.592
210	0.585	0.585	0.585
220	0.570	0.569	0.569
230	0.544	0.543	0.543
240	0.509	0.507	0.507
250	0.465	0.462	0.462
260	0.413	0.410	0.410
270	0.355	0.354	0.354
280	0.296	0.295	0.295
290	0.238	0.239	0.239
300	0.185	0.186	0.186
310	0.138	0.140	0.140
320	0.100	0.102	0.102
330	0.069	0.071	0.071
340	0.046	0.048	0.048
350	0.030	0.031	0.031
360	0.019	0.019	0.019

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x	$A(x)$	P_{v1}	P_{v2}
370	0.011	0.011	0.011
380	0.007	0.007	0.007
390	0.004	0.004	0.004
400	0.002	0.002	0.002

Table B.5.109: Output for Problem 5.5.2-A-wc-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.815	0.815	0.815
50	0.774	0.774	0.774
60	0.733	0.733	0.733
70	0.692	0.692	0.692
80	0.650	0.649	0.649
90	0.602	0.601	0.601
100	0.544	0.546	0.546
110	0.482	0.482	0.482
120	0.413	0.411	0.411
130	0.336	0.335	0.335
140	0.259	0.260	0.260
150	0.190	0.189	0.189
160	0.130	0.130	0.130
170	0.083	0.083	0.083
180	0.049	0.049	0.049
190	0.027	0.027	0.027
200	0.013	0.014	0.014
210	0.006	0.007	0.007
220	0.003	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.110: Output for Problem 5.5.2-A-wc-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.816	0.816	0.816
50	0.775	0.775	0.775
60	0.737	0.737	0.737
70	0.700	0.700	0.700
80	0.665	0.665	0.665
90	0.632	0.632	0.632
100	0.601	0.601	0.601
110	0.571	0.571	0.571
120	0.543	0.542	0.542
130	0.515	0.515	0.515
140	0.489	0.490	0.490
150	0.465	0.465	0.465
160	0.441	0.441	0.441
170	0.417	0.418	0.418
180	0.394	0.394	0.394
190	0.371	0.371	0.371
200	0.347	0.347	0.347
210	0.323	0.323	0.323
220	0.297	0.297	0.297
230	0.269	0.269	0.269
240	0.241	0.240	0.240

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
250	0.211	0.210	0.210
260	0.181	0.180	0.180
270	0.152	0.151	0.151
280	0.123	0.123	0.123
290	0.097	0.097	0.097
300	0.074	0.074	0.074
310	0.054	0.055	0.055
320	0.039	0.039	0.039
330	0.026	0.027	0.027
340	0.017	0.018	0.018
350	0.011	0.011	0.011
360	0.007	0.007	0.007
370	0.004	0.004	0.004
380	0.002	0.002	0.002
390	0.001	0.001	0.001
400	0.001	0.001	0.001

Table B.5.111: Output for Problem 5.5.2-B-phi-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.223	0.157	0.157
60	0.259	0.185	0.185
70	0.291	0.213	0.213
80	0.316	0.239	0.239
90	0.330	0.264	0.264
100	0.332	0.288	0.288
110	0.320	0.309	0.309
120	0.293	0.328	0.328
130	0.253	0.343	0.343
140	0.205	0.353	0.353
150	0.155	0.355	0.355
160	0.109	0.350	0.350
170	0.071	0.335	0.335
180	0.043	0.311	0.311

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190	0.024	0.278	0.278
200	0.012	0.240	0.240
210	0.006	0.198	0.198
220	0.002	0.157	0.157
230	0.001	0.118	0.118
240	0.000	0.085	0.085
250	0.000	0.058	0.058
260	0.000	0.038	0.038
270	0.000	0.023	0.023
280	0.000	0.014	0.014
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.112: Output for Problem 5.5.2-B-phi-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.225	0.157	0.157
60	0.263	0.185	0.185
70	0.300	0.213	0.213
80	0.335	0.239	0.239
90	0.368	0.265	0.265
100	0.399	0.290	0.290
110	0.429	0.313	0.313
120	0.457	0.337	0.337

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x	$A(x)$	P_{v1}	P_{v2}
130	0.484	0.359	0.359
140	0.508	0.380	0.380
150	0.531	0.401	0.401
160	0.551	0.421	0.421
170	0.569	0.441	0.441
180	0.582	0.460	0.460
190	0.590	0.478	0.478
200	0.592	0.495	0.495
210	0.585	0.512	0.512
220	0.570	0.528	0.528
230	0.544	0.544	0.544
240	0.509	0.559	0.559
250	0.465	0.572	0.572
260	0.413	0.585	0.585
270	0.355	0.596	0.596
280	0.296	0.606	0.606
290	0.238	0.613	0.613
300	0.185	0.617	0.617
310	0.138	0.617	0.617
320	0.100	0.613	0.613
330	0.069	0.603	0.603
340	0.046	0.588	0.588
350	0.030	0.566	0.566
360	0.019	0.538	0.538
370	0.011	0.504	0.504
380	0.007	0.465	0.465
390	0.004	0.422	0.422
400	0.002	0.393	0.393

Table B.5.113: Output for Problem 5.5.2-B-phi-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.815	0.872	0.872
50	0.774	0.843	0.843
60	0.733	0.814	0.814

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x	$A(x)$	P_{v1}	P_{v2}
70	0.692	0.787	0.787
80	0.650	0.760	0.760
90	0.602	0.734	0.734
100	0.544	0.709	0.709
110	0.482	0.683	0.683
120	0.413	0.656	0.656
130	0.336	0.627	0.627
140	0.259	0.595	0.595
150	0.190	0.559	0.559
160	0.130	0.517	0.517
170	0.083	0.469	0.469
180	0.049	0.416	0.416
190	0.027	0.358	0.358
200	0.013	0.298	0.298
210	0.006	0.240	0.240
220	0.003	0.185	0.185
230	0.001	0.137	0.137
240	0.000	0.097	0.097
250	0.000	0.065	0.065
260	0.000	0.042	0.042
270	0.000	0.025	0.025
280	0.000	0.015	0.015
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.114: Output for Problem 5.5.2-B-phi-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.816	0.872	0.872
50	0.775	0.843	0.843
60	0.737	0.815	0.815
70	0.700	0.787	0.787
80	0.665	0.761	0.761
90	0.632	0.735	0.735
100	0.601	0.710	0.710
110	0.571	0.687	0.687
120	0.543	0.663	0.663
130	0.515	0.641	0.641
140	0.489	0.620	0.620
150	0.465	0.599	0.599
160	0.441	0.579	0.579
170	0.417	0.559	0.559
180	0.394	0.540	0.540
190	0.371	0.522	0.522
200	0.347	0.505	0.505
210	0.323	0.488	0.488
220	0.297	0.471	0.471
230	0.269	0.455	0.455
240	0.241	0.440	0.440
250	0.211	0.425	0.425
260	0.181	0.410	0.410
270	0.152	0.395	0.395
280	0.123	0.381	0.381
290	0.097	0.366	0.366
300	0.074	0.351	0.351
310	0.054	0.336	0.336
320	0.039	0.319	0.319
330	0.026	0.302	0.302
340	0.017	0.284	0.284
350	0.011	0.264	0.264
360	0.007	0.244	0.244
370	0.004	0.222	0.222
380	0.002	0.199	0.199
390	0.001	0.177	0.177
400	0.001	0.162	0.162

Table B.5.115: Output for Problem 5.5.2-B-wc-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.223	0.223	0.223
60	0.259	0.260	0.260
70	0.291	0.291	0.291
80	0.316	0.316	0.316
90	0.330	0.330	0.330
100	0.332	0.333	0.333
110	0.320	0.320	0.320
120	0.293	0.292	0.292
130	0.253	0.252	0.252
140	0.205	0.204	0.204
150	0.155	0.155	0.155
160	0.109	0.109	0.109
170	0.071	0.071	0.071
180	0.043	0.043	0.043
190	0.024	0.024	0.024
200	0.012	0.013	0.013
210	0.006	0.006	0.006
220	0.002	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000

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x	$A(x)$	P_{v1}	P_{v2}
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.116: Output for Problem 5.5.2-B-wc-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.225	0.225	0.225
60	0.263	0.263	0.263
70	0.300	0.300	0.300
80	0.335	0.335	0.335
90	0.368	0.368	0.368
100	0.399	0.399	0.399
110	0.429	0.429	0.429
120	0.457	0.457	0.457
130	0.484	0.484	0.484
140	0.508	0.508	0.508
150	0.531	0.531	0.531
160	0.551	0.552	0.552
170	0.569	0.569	0.569
180	0.582	0.582	0.582
190	0.590	0.590	0.590
200	0.592	0.592	0.592
210	0.585	0.585	0.585
220	0.570	0.569	0.569
230	0.544	0.543	0.543
240	0.509	0.507	0.507
250	0.465	0.462	0.462
260	0.413	0.410	0.410
270	0.355	0.354	0.354
280	0.296	0.295	0.295
290	0.238	0.239	0.239
300	0.185	0.186	0.186

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x	$A(x)$	P_{v1}	P_{v2}
310	0.138	0.140	0.140
320	0.100	0.102	0.102
330	0.069	0.071	0.071
340	0.046	0.048	0.048
350	0.030	0.031	0.031
360	0.019	0.019	0.019
370	0.011	0.011	0.011
380	0.007	0.007	0.007
390	0.004	0.004	0.004
400	0.002	0.002	0.002

Table B.5.117: Output for Problem 5.5.2-B-wc-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.815	0.815	0.815
50	0.774	0.774	0.774
60	0.733	0.733	0.733
70	0.692	0.692	0.692
80	0.650	0.649	0.649
90	0.602	0.601	0.601
100	0.544	0.546	0.546
110	0.482	0.482	0.482
120	0.413	0.411	0.411
130	0.336	0.335	0.335
140	0.259	0.260	0.260
150	0.190	0.189	0.189
160	0.130	0.130	0.130
170	0.083	0.083	0.083
180	0.049	0.049	0.049
190	0.027	0.027	0.027
200	0.013	0.014	0.014
210	0.006	0.007	0.007
220	0.003	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.118: Output for Problem 5.5.2-B-wc-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.816	0.816	0.816
50	0.775	0.775	0.775
60	0.737	0.737	0.737
70	0.700	0.700	0.700
80	0.665	0.665	0.665
90	0.632	0.632	0.632
100	0.601	0.601	0.601
110	0.571	0.571	0.571
120	0.543	0.542	0.542
130	0.515	0.515	0.515
140	0.489	0.490	0.490
150	0.465	0.465	0.465
160	0.441	0.441	0.441
170	0.417	0.418	0.418
180	0.394	0.394	0.394

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x	$A(x)$	P_{v1}	P_{v2}
190	0.371	0.371	0.371
200	0.347	0.347	0.347
210	0.323	0.323	0.323
220	0.297	0.297	0.297
230	0.269	0.269	0.269
240	0.241	0.240	0.240
250	0.211	0.210	0.210
260	0.181	0.180	0.180
270	0.152	0.151	0.151
280	0.123	0.123	0.123
290	0.097	0.097	0.097
300	0.074	0.074	0.074
310	0.054	0.055	0.055
320	0.039	0.039	0.039
330	0.026	0.027	0.027
340	0.017	0.018	0.018
350	0.011	0.011	0.011
360	0.007	0.007	0.007
370	0.004	0.004	0.004
380	0.002	0.002	0.002
390	0.001	0.001	0.001
400	0.001	0.001	0.001

Table B.5.119: Output for Problem 5.5.2-C-phi-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.223	0.157	0.157
60	0.259	0.185	0.185
70	0.291	0.213	0.213
80	0.316	0.239	0.239
90	0.330	0.264	0.264
100	0.332	0.288	0.288
110	0.320	0.309	0.309
120	0.293	0.328	0.328

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
130	0.253	0.343	0.343
140	0.205	0.353	0.353
150	0.155	0.355	0.355
160	0.109	0.350	0.350
170	0.071	0.335	0.335
180	0.043	0.311	0.311
190	0.024	0.278	0.278
200	0.012	0.240	0.240
210	0.006	0.198	0.198
220	0.002	0.157	0.157
230	0.001	0.118	0.118
240	0.000	0.085	0.085
250	0.000	0.058	0.058
260	0.000	0.038	0.038
270	0.000	0.023	0.023
280	0.000	0.014	0.014
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.120: Output for Problem 5.5.2-C-phi-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.225	0.157	0.157
60	0.263	0.185	0.185

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.300	0.213	0.213
80	0.335	0.239	0.239
90	0.368	0.265	0.265
100	0.399	0.290	0.290
110	0.429	0.313	0.313
120	0.457	0.337	0.337
130	0.484	0.359	0.359
140	0.508	0.380	0.380
150	0.531	0.401	0.401
160	0.551	0.421	0.421
170	0.569	0.441	0.441
180	0.582	0.460	0.460
190	0.590	0.478	0.478
200	0.592	0.495	0.495
210	0.585	0.512	0.512
220	0.570	0.528	0.528
230	0.544	0.544	0.544
240	0.509	0.559	0.559
250	0.465	0.572	0.572
260	0.413	0.585	0.585
270	0.355	0.596	0.596
280	0.296	0.606	0.606
290	0.238	0.613	0.613
300	0.185	0.617	0.617
310	0.138	0.617	0.617
320	0.100	0.613	0.613
330	0.069	0.603	0.603
340	0.046	0.588	0.588
350	0.030	0.566	0.566
360	0.019	0.538	0.538
370	0.011	0.504	0.504
380	0.007	0.465	0.465
390	0.004	0.422	0.422
400	0.002	0.393	0.393

Table B.5.121: Output for Problem 5.5.2-C-phi-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.815	0.872	0.872
50	0.774	0.843	0.843
60	0.733	0.814	0.814
70	0.692	0.787	0.787
80	0.650	0.760	0.760
90	0.602	0.734	0.734
100	0.544	0.709	0.709
110	0.482	0.683	0.683
120	0.413	0.656	0.656
130	0.336	0.627	0.627
140	0.259	0.595	0.595
150	0.190	0.559	0.559
160	0.130	0.517	0.517
170	0.083	0.469	0.469
180	0.049	0.416	0.416
190	0.027	0.358	0.358
200	0.013	0.298	0.298
210	0.006	0.240	0.240
220	0.003	0.185	0.185
230	0.001	0.137	0.137
240	0.000	0.097	0.097
250	0.000	0.065	0.065
260	0.000	0.042	0.042
270	0.000	0.025	0.025
280	0.000	0.015	0.015
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.122: Output for Problem 5.5.2-C-phi-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.816	0.872	0.872
50	0.775	0.843	0.843
60	0.737	0.815	0.815
70	0.700	0.787	0.787
80	0.665	0.761	0.761
90	0.632	0.735	0.735
100	0.601	0.710	0.710
110	0.571	0.687	0.687
120	0.543	0.663	0.663
130	0.515	0.641	0.641
140	0.489	0.620	0.620
150	0.465	0.599	0.599
160	0.441	0.579	0.579
170	0.417	0.559	0.559
180	0.394	0.540	0.540
190	0.371	0.522	0.522
200	0.347	0.505	0.505
210	0.323	0.488	0.488
220	0.297	0.471	0.471
230	0.269	0.455	0.455
240	0.241	0.440	0.440
250	0.211	0.425	0.425
260	0.181	0.410	0.410
270	0.152	0.395	0.395
280	0.123	0.381	0.381
290	0.097	0.366	0.366
300	0.074	0.351	0.351
310	0.054	0.336	0.336
320	0.039	0.319	0.319
330	0.026	0.302	0.302
340	0.017	0.284	0.284
350	0.011	0.264	0.264
360	0.007	0.244	0.244

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
370	0.004	0.222	0.222
380	0.002	0.199	0.199
390	0.001	0.177	0.177
400	0.001	0.162	0.162

Table B.5.123: Output for Problem 5.5.2-C-wc-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.223	0.223	0.223
60	0.259	0.260	0.260
70	0.291	0.291	0.291
80	0.316	0.316	0.316
90	0.330	0.330	0.330
100	0.332	0.333	0.333
110	0.320	0.320	0.320
120	0.293	0.292	0.292
130	0.253	0.252	0.252
140	0.205	0.204	0.204
150	0.155	0.155	0.155
160	0.109	0.109	0.109
170	0.071	0.071	0.071
180	0.043	0.043	0.043
190	0.024	0.024	0.024
200	0.012	0.013	0.013
210	0.006	0.006	0.006
220	0.002	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.124: Output for Problem 5.5.2-C-wc-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.225	0.225	0.225
60	0.263	0.263	0.263
70	0.300	0.300	0.300
80	0.335	0.335	0.335
90	0.368	0.368	0.368
100	0.399	0.399	0.399
110	0.429	0.429	0.429
120	0.457	0.457	0.457
130	0.484	0.484	0.484
140	0.508	0.508	0.508
150	0.531	0.531	0.531
160	0.551	0.552	0.552
170	0.569	0.569	0.569
180	0.582	0.582	0.582
190	0.590	0.590	0.590
200	0.592	0.592	0.592
210	0.585	0.585	0.585
220	0.570	0.569	0.569
230	0.544	0.543	0.543
240	0.509	0.507	0.507

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x	$A(x)$	P_{v1}	P_{v2}
250	0.465	0.462	0.462
260	0.413	0.410	0.410
270	0.355	0.354	0.354
280	0.296	0.295	0.295
290	0.238	0.239	0.239
300	0.185	0.186	0.186
310	0.138	0.140	0.140
320	0.100	0.102	0.102
330	0.069	0.071	0.071
340	0.046	0.048	0.048
350	0.030	0.031	0.031
360	0.019	0.019	0.019
370	0.011	0.011	0.011
380	0.007	0.007	0.007
390	0.004	0.004	0.004
400	0.002	0.002	0.002

Table B.5.125: Output for Problem 5.5.2-C-wc-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.815	0.815	0.815
50	0.774	0.774	0.774
60	0.733	0.733	0.733
70	0.692	0.692	0.692
80	0.650	0.649	0.649
90	0.602	0.601	0.601
100	0.544	0.546	0.546
110	0.482	0.482	0.482
120	0.413	0.411	0.411
130	0.336	0.335	0.335
140	0.259	0.260	0.260
150	0.190	0.189	0.189
160	0.130	0.130	0.130
170	0.083	0.083	0.083
180	0.049	0.049	0.049

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190	0.027	0.027	0.027
200	0.013	0.014	0.014
210	0.006	0.007	0.007
220	0.003	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.126: Output for Problem 5.5.2-C-wc-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.816	0.816	0.816
50	0.775	0.775	0.775
60	0.737	0.737	0.737
70	0.700	0.700	0.700
80	0.665	0.665	0.665
90	0.632	0.632	0.632
100	0.601	0.601	0.601
110	0.571	0.571	0.571
120	0.543	0.542	0.542

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x	$A(x)$	P_{v1}	P_{v2}
130	0.515	0.515	0.515
140	0.489	0.490	0.490
150	0.465	0.465	0.465
160	0.441	0.441	0.441
170	0.417	0.418	0.418
180	0.394	0.394	0.394
190	0.371	0.371	0.371
200	0.347	0.347	0.347
210	0.323	0.323	0.323
220	0.297	0.297	0.297
230	0.269	0.269	0.269
240	0.241	0.240	0.240
250	0.211	0.210	0.210
260	0.181	0.180	0.180
270	0.152	0.151	0.151
280	0.123	0.123	0.123
290	0.097	0.097	0.097
300	0.074	0.074	0.074
310	0.054	0.055	0.055
320	0.039	0.039	0.039
330	0.026	0.027	0.027
340	0.017	0.018	0.018
350	0.011	0.011	0.011
360	0.007	0.007	0.007
370	0.004	0.004	0.004
380	0.002	0.002	0.002
390	0.001	0.001	0.001
400	0.001	0.001	0.001

Table B.5.127: Output for Problem 5.5.2-D-phi-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.223	0.157	0.157
60	0.259	0.185	0.185

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.291	0.213	0.213
80	0.316	0.239	0.239
90	0.330	0.264	0.264
100	0.332	0.288	0.288
110	0.320	0.309	0.309
120	0.293	0.328	0.328
130	0.253	0.343	0.343
140	0.205	0.353	0.353
150	0.155	0.355	0.355
160	0.109	0.350	0.350
170	0.071	0.335	0.335
180	0.043	0.311	0.311
190	0.024	0.278	0.278
200	0.012	0.240	0.240
210	0.006	0.198	0.198
220	0.002	0.157	0.157
230	0.001	0.118	0.118
240	0.000	0.085	0.085
250	0.000	0.058	0.058
260	0.000	0.038	0.038
270	0.000	0.023	0.023
280	0.000	0.014	0.014
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.128: Output for Problem 5.5.2-D-phi-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.225	0.157	0.157
60	0.263	0.185	0.185
70	0.300	0.213	0.213
80	0.335	0.239	0.239
90	0.368	0.265	0.265
100	0.399	0.290	0.290
110	0.429	0.313	0.313
120	0.457	0.337	0.337
130	0.484	0.359	0.359
140	0.508	0.380	0.380
150	0.531	0.401	0.401
160	0.551	0.421	0.421
170	0.569	0.441	0.441
180	0.582	0.460	0.460
190	0.590	0.478	0.478
200	0.592	0.495	0.495
210	0.585	0.512	0.512
220	0.570	0.528	0.528
230	0.544	0.544	0.544
240	0.509	0.559	0.559
250	0.465	0.572	0.572
260	0.413	0.585	0.585
270	0.355	0.596	0.596
280	0.296	0.606	0.606
290	0.238	0.613	0.613
300	0.185	0.617	0.617
310	0.138	0.617	0.617
320	0.100	0.613	0.613
330	0.069	0.603	0.603
340	0.046	0.588	0.588
350	0.030	0.566	0.566
360	0.019	0.538	0.538
370	0.011	0.504	0.504
380	0.007	0.465	0.465
390	0.004	0.422	0.422
400	0.002	0.393	0.393

Table B.5.129: Output for Problem 5.5.2-D-phi-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.815	0.872	0.872
50	0.774	0.843	0.843
60	0.733	0.814	0.814
70	0.692	0.787	0.787
80	0.650	0.760	0.760
90	0.602	0.734	0.734
100	0.544	0.709	0.709
110	0.482	0.683	0.683
120	0.413	0.656	0.656
130	0.336	0.627	0.627
140	0.259	0.595	0.595
150	0.190	0.559	0.559
160	0.130	0.517	0.517
170	0.083	0.469	0.469
180	0.049	0.416	0.416
190	0.027	0.358	0.358
200	0.013	0.298	0.298
210	0.006	0.240	0.240
220	0.003	0.185	0.185
230	0.001	0.137	0.137
240	0.000	0.097	0.097
250	0.000	0.065	0.065
260	0.000	0.042	0.042
270	0.000	0.025	0.025
280	0.000	0.015	0.015
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000

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x	$A(x)$	P_{v1}	P_{v2}
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.130: Output for Problem 5.5.2-D-phi-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.816	0.872	0.872
50	0.775	0.843	0.843
60	0.737	0.815	0.815
70	0.700	0.787	0.787
80	0.665	0.761	0.761
90	0.632	0.735	0.735
100	0.601	0.710	0.710
110	0.571	0.687	0.687
120	0.543	0.663	0.663
130	0.515	0.641	0.641
140	0.489	0.620	0.620
150	0.465	0.599	0.599
160	0.441	0.579	0.579
170	0.417	0.559	0.559
180	0.394	0.540	0.540
190	0.371	0.522	0.522
200	0.347	0.505	0.505
210	0.323	0.488	0.488
220	0.297	0.471	0.471
230	0.269	0.455	0.455
240	0.241	0.440	0.440
250	0.211	0.425	0.425
260	0.181	0.410	0.410
270	0.152	0.395	0.395
280	0.123	0.381	0.381
290	0.097	0.366	0.366
300	0.074	0.351	0.351

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
310	0.054	0.336	0.336
320	0.039	0.319	0.319
330	0.026	0.302	0.302
340	0.017	0.284	0.284
350	0.011	0.264	0.264
360	0.007	0.244	0.244
370	0.004	0.222	0.222
380	0.002	0.199	0.199
390	0.001	0.177	0.177
400	0.001	0.162	0.162

Table B.5.131: Output for Problem 5.5.2-D-wc-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.223	0.223	0.223
60	0.259	0.260	0.260
70	0.291	0.291	0.291
80	0.316	0.316	0.316
90	0.330	0.330	0.330
100	0.332	0.333	0.333
110	0.320	0.320	0.320
120	0.293	0.292	0.292
130	0.253	0.252	0.252
140	0.205	0.204	0.204
150	0.155	0.155	0.155
160	0.109	0.109	0.109
170	0.071	0.071	0.071
180	0.043	0.043	0.043
190	0.024	0.024	0.024
200	0.012	0.013	0.013
210	0.006	0.006	0.006
220	0.002	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.132: Output for Problem 5.5.2-D-wc-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.225	0.225	0.225
60	0.263	0.263	0.263
70	0.300	0.300	0.300
80	0.335	0.335	0.335
90	0.368	0.368	0.368
100	0.399	0.399	0.399
110	0.429	0.429	0.429
120	0.457	0.457	0.457
130	0.484	0.484	0.484
140	0.508	0.508	0.508
150	0.531	0.531	0.531
160	0.551	0.552	0.552
170	0.569	0.569	0.569
180	0.582	0.582	0.582

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190	0.590	0.590	0.590
200	0.592	0.592	0.592
210	0.585	0.585	0.585
220	0.570	0.569	0.569
230	0.544	0.543	0.543
240	0.509	0.507	0.507
250	0.465	0.462	0.462
260	0.413	0.410	0.410
270	0.355	0.354	0.354
280	0.296	0.295	0.295
290	0.238	0.239	0.239
300	0.185	0.186	0.186
310	0.138	0.140	0.140
320	0.100	0.102	0.102
330	0.069	0.071	0.071
340	0.046	0.048	0.048
350	0.030	0.031	0.031
360	0.019	0.019	0.019
370	0.011	0.011	0.011
380	0.007	0.007	0.007
390	0.004	0.004	0.004
400	0.002	0.002	0.002

Table B.5.133: Output for Problem 5.5.2-D-wc-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.815	0.815	0.815
50	0.774	0.774	0.774
60	0.733	0.733	0.733
70	0.692	0.692	0.692
80	0.650	0.649	0.649
90	0.602	0.601	0.601
100	0.544	0.546	0.546
110	0.482	0.482	0.482
120	0.413	0.411	0.411

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
130	0.336	0.335	0.335
140	0.259	0.260	0.260
150	0.190	0.189	0.189
160	0.130	0.130	0.130
170	0.083	0.083	0.083
180	0.049	0.049	0.049
190	0.027	0.027	0.027
200	0.013	0.014	0.014
210	0.006	0.007	0.007
220	0.003	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.134: Output for Problem 5.5.2-D-wc-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.816	0.816	0.816
50	0.775	0.775	0.775
60	0.737	0.737	0.737

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.700	0.700	0.700
80	0.665	0.665	0.665
90	0.632	0.632	0.632
100	0.601	0.601	0.601
110	0.571	0.571	0.571
120	0.543	0.542	0.542
130	0.515	0.515	0.515
140	0.489	0.490	0.490
150	0.465	0.465	0.465
160	0.441	0.441	0.441
170	0.417	0.418	0.418
180	0.394	0.394	0.394
190	0.371	0.371	0.371
200	0.347	0.347	0.347
210	0.323	0.323	0.323
220	0.297	0.297	0.297
230	0.269	0.269	0.269
240	0.241	0.240	0.240
250	0.211	0.210	0.210
260	0.181	0.180	0.180
270	0.152	0.151	0.151
280	0.123	0.123	0.123
290	0.097	0.097	0.097
300	0.074	0.074	0.074
310	0.054	0.055	0.055
320	0.039	0.039	0.039
330	0.026	0.027	0.027
340	0.017	0.018	0.018
350	0.011	0.011	0.011
360	0.007	0.007	0.007
370	0.004	0.004	0.004
380	0.002	0.002	0.002
390	0.001	0.001	0.001
400	0.001	0.001	0.001

Table B.5.135: Output for Problem 5.5.2-E-phi-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.223	0.157	0.157
60	0.259	0.185	0.185
70	0.291	0.213	0.213
80	0.316	0.239	0.239
90	0.330	0.264	0.264
100	0.332	0.288	0.288
110	0.320	0.309	0.309
120	0.293	0.328	0.328
130	0.253	0.343	0.343
140	0.205	0.353	0.353
150	0.155	0.355	0.355
160	0.109	0.350	0.350
170	0.071	0.335	0.335
180	0.043	0.311	0.311
190	0.024	0.278	0.278
200	0.012	0.240	0.240
210	0.006	0.198	0.198
220	0.002	0.157	0.157
230	0.001	0.118	0.118
240	0.000	0.085	0.085
250	0.000	0.058	0.058
260	0.000	0.038	0.038
270	0.000	0.023	0.023
280	0.000	0.014	0.014
290	0.000	0.008	0.008
300	0.000	0.004	0.004
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.136: Output for Problem 5.5.2-E-phi-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.034	0.034
20	0.097	0.066	0.066
30	0.142	0.097	0.097
40	0.184	0.128	0.128
50	0.225	0.157	0.157
60	0.263	0.185	0.185
70	0.300	0.213	0.213
80	0.335	0.239	0.239
90	0.368	0.265	0.265
100	0.399	0.290	0.290
110	0.429	0.313	0.313
120	0.457	0.337	0.337
130	0.484	0.359	0.359
140	0.508	0.380	0.380
150	0.531	0.401	0.401
160	0.551	0.421	0.421
170	0.569	0.441	0.441
180	0.582	0.460	0.460
190	0.590	0.478	0.478
200	0.592	0.495	0.495
210	0.585	0.512	0.512
220	0.570	0.528	0.528
230	0.544	0.544	0.544
240	0.509	0.559	0.559
250	0.465	0.572	0.572
260	0.413	0.585	0.585
270	0.355	0.596	0.596
280	0.296	0.606	0.606
290	0.238	0.613	0.613
300	0.185	0.617	0.617
310	0.138	0.617	0.617
320	0.100	0.613	0.613
330	0.069	0.603	0.603
340	0.046	0.588	0.588
350	0.030	0.566	0.566
360	0.019	0.538	0.538

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x	$A(x)$	P_{v1}	P_{v2}
370	0.011	0.504	0.504
380	0.007	0.465	0.465
390	0.004	0.422	0.422
400	0.002	0.393	0.393

Table B.5.137: Output for Problem 5.5.2-E-phi-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.815	0.872	0.872
50	0.774	0.843	0.843
60	0.733	0.814	0.814
70	0.692	0.787	0.787
80	0.650	0.760	0.760
90	0.602	0.734	0.734
100	0.544	0.709	0.709
110	0.482	0.683	0.683
120	0.413	0.656	0.656
130	0.336	0.627	0.627
140	0.259	0.595	0.595
150	0.190	0.559	0.559
160	0.130	0.517	0.517
170	0.083	0.469	0.469
180	0.049	0.416	0.416
190	0.027	0.358	0.358
200	0.013	0.298	0.298
210	0.006	0.240	0.240
220	0.003	0.185	0.185
230	0.001	0.137	0.137
240	0.000	0.097	0.097
250	0.000	0.065	0.065
260	0.000	0.042	0.042
270	0.000	0.025	0.025
280	0.000	0.015	0.015
290	0.000	0.008	0.008
300	0.000	0.004	0.004

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x	$A(x)$	P_{v1}	P_{v2}
310	0.000	0.002	0.002
320	0.000	0.001	0.001
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.138: Output for Problem 5.5.2-E-phi-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.966	0.966
20	0.903	0.934	0.934
30	0.858	0.903	0.903
40	0.816	0.872	0.872
50	0.775	0.843	0.843
60	0.737	0.815	0.815
70	0.700	0.787	0.787
80	0.665	0.761	0.761
90	0.632	0.735	0.735
100	0.601	0.710	0.710
110	0.571	0.687	0.687
120	0.543	0.663	0.663
130	0.515	0.641	0.641
140	0.489	0.620	0.620
150	0.465	0.599	0.599
160	0.441	0.579	0.579
170	0.417	0.559	0.559
180	0.394	0.540	0.540
190	0.371	0.522	0.522
200	0.347	0.505	0.505
210	0.323	0.488	0.488
220	0.297	0.471	0.471
230	0.269	0.455	0.455
240	0.241	0.440	0.440

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x	$A(x)$	P_{v1}	P_{v2}
250	0.211	0.425	0.425
260	0.181	0.410	0.410
270	0.152	0.395	0.395
280	0.123	0.381	0.381
290	0.097	0.366	0.366
300	0.074	0.351	0.351
310	0.054	0.336	0.336
320	0.039	0.319	0.319
330	0.026	0.302	0.302
340	0.017	0.284	0.284
350	0.011	0.264	0.264
360	0.007	0.244	0.244
370	0.004	0.222	0.222
380	0.002	0.199	0.199
390	0.001	0.177	0.177
400	0.001	0.162	0.162

Table B.5.139: Output for Problem 5.5.2-E-wc-C2-25

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.223	0.223	0.223
60	0.259	0.260	0.260
70	0.291	0.291	0.291
80	0.316	0.316	0.316
90	0.330	0.330	0.330
100	0.332	0.333	0.333
110	0.320	0.320	0.320
120	0.293	0.292	0.292
130	0.253	0.252	0.252
140	0.205	0.204	0.204
150	0.155	0.155	0.155
160	0.109	0.109	0.109
170	0.071	0.071	0.071
180	0.043	0.043	0.043

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190	0.024	0.024	0.024
200	0.012	0.013	0.013
210	0.006	0.006	0.006
220	0.002	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.140: Output for Problem 5.5.2-E-wc-C2-50

x	$A(x)$	P_{v1}	P_{v2}
0	0.000	0.000	0.000
10	0.050	0.050	0.050
20	0.097	0.097	0.097
30	0.142	0.142	0.142
40	0.184	0.184	0.184
50	0.225	0.225	0.225
60	0.263	0.263	0.263
70	0.300	0.300	0.300
80	0.335	0.335	0.335
90	0.368	0.368	0.368
100	0.399	0.399	0.399
110	0.429	0.429	0.429
120	0.457	0.457	0.457

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
130	0.484	0.484	0.484
140	0.508	0.508	0.508
150	0.531	0.531	0.531
160	0.551	0.552	0.552
170	0.569	0.569	0.569
180	0.582	0.582	0.582
190	0.590	0.590	0.590
200	0.592	0.592	0.592
210	0.585	0.585	0.585
220	0.570	0.569	0.569
230	0.544	0.543	0.543
240	0.509	0.507	0.507
250	0.465	0.462	0.462
260	0.413	0.410	0.410
270	0.355	0.354	0.354
280	0.296	0.295	0.295
290	0.238	0.239	0.239
300	0.185	0.186	0.186
310	0.138	0.140	0.140
320	0.100	0.102	0.102
330	0.069	0.071	0.071
340	0.046	0.048	0.048
350	0.030	0.031	0.031
360	0.019	0.019	0.019
370	0.011	0.011	0.011
380	0.007	0.007	0.007
390	0.004	0.004	0.004
400	0.002	0.002	0.002

Table B.5.141: Output for Problem 5.5.2-E-wc-C-25

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.815	0.815	0.815
50	0.774	0.774	0.774
60	0.733	0.733	0.733

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.692	0.692	0.692
80	0.650	0.649	0.649
90	0.602	0.601	0.601
100	0.544	0.546	0.546
110	0.482	0.482	0.482
120	0.413	0.411	0.411
130	0.336	0.335	0.335
140	0.259	0.260	0.260
150	0.190	0.189	0.189
160	0.130	0.130	0.130
170	0.083	0.083	0.083
180	0.049	0.049	0.049
190	0.027	0.027	0.027
200	0.013	0.014	0.014
210	0.006	0.007	0.007
220	0.003	0.003	0.003
230	0.001	0.001	0.001
240	0.000	0.000	0.000
250	0.000	0.000	0.000
260	0.000	0.000	0.000
270	0.000	0.000	0.000
280	0.000	0.000	0.000
290	0.000	0.000	0.000
300	0.000	0.000	0.000
310	0.000	0.000	0.000
320	0.000	0.000	0.000
330	0.000	0.000	0.000
340	0.000	0.000	0.000
350	0.000	0.000	0.000
360	0.000	0.000	0.000
370	0.000	0.000	0.000
380	0.000	0.000	0.000
390	0.000	0.000	0.000
400	0.000	0.000	0.000

Table B.5.142: Output for Problem 5.5.2-E-wc-C-50

x	$A(x)$	P_{v1}	P_{v2}
0	1.000	1.000	1.000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	0.950	0.950	0.950
20	0.903	0.903	0.903
30	0.858	0.858	0.858
40	0.816	0.816	0.816
50	0.775	0.775	0.775
60	0.737	0.737	0.737
70	0.700	0.700	0.700
80	0.665	0.665	0.665
90	0.632	0.632	0.632
100	0.601	0.601	0.601
110	0.571	0.571	0.571
120	0.543	0.542	0.542
130	0.515	0.515	0.515
140	0.489	0.490	0.490
150	0.465	0.465	0.465
160	0.441	0.441	0.441
170	0.417	0.418	0.418
180	0.394	0.394	0.394
190	0.371	0.371	0.371
200	0.347	0.347	0.347
210	0.323	0.323	0.323
220	0.297	0.297	0.297
230	0.269	0.269	0.269
240	0.241	0.240	0.240
250	0.211	0.210	0.210
260	0.181	0.180	0.180
270	0.152	0.151	0.151
280	0.123	0.123	0.123
290	0.097	0.097	0.097
300	0.074	0.074	0.074
310	0.054	0.055	0.055
320	0.039	0.039	0.039
330	0.026	0.027	0.027
340	0.017	0.018	0.018
350	0.011	0.011	0.011
360	0.007	0.007	0.007
370	0.004	0.004	0.004
380	0.002	0.002	0.002
390	0.001	0.001	0.001
400	0.001	0.001	0.001

B.6 Dispersion

Table B.6.1: Output for Problem 6.1.1-L01

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0000	0.0000
0.1	0.0000	0.0000	0.0000
0.2	0.0000	0.0000	0.0000
0.3	0.0000	0.0000	0.0000
0.4	0.0000	0.0000	0.0000
0.5	0.0000	0.0000	0.0000
0.6	0.0000	0.0000	0.0000
0.7	0.0000	0.0000	0.0000
0.8	0.0000	0.0000	0.0000
0.9	0.0000	0.0000	0.0000
1.0	0.0000	0.0000	0.0000
1.1	0.0000	0.0000	0.0000
1.2	0.0000	0.0000	0.0000
1.3	0.0000	0.0000	0.0000
1.4	0.0000	0.0000	0.0000
1.5	0.0000	0.0000	0.0000
1.6	0.0000	0.0000	0.0000
1.7	0.0000	0.0000	0.0000
1.8	0.0000	0.0000	0.0000
1.9	0.0000	0.0000	0.0000
2.0	0.0000	0.0000	0.0000
2.1	0.0000	0.0000	0.0000
2.2	0.0000	0.0000	0.0000
2.3	0.0000	0.0000	0.0000
2.4	0.0000	0.0000	0.0000
2.5	0.0000	0.0000	0.0000
2.6	0.0000	0.0000	0.0000
2.7	0.0000	0.0000	0.0000
2.8	0.0000	0.0000	0.0000
2.9	0.0000	0.0000	0.0000
3.0	0.0000	0.0000	0.0000
3.1	0.0000	0.0000	0.0000
3.2	0.0000	0.0000	0.0000
3.3	0.0000	0.0000	0.0000
3.4	0.0000	0.0000	0.0000
3.5	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
3.6	0.0000	0.0000	0.0000
3.7	0.0000	0.0000	0.0000
3.8	0.0000	0.0000	0.0000
3.9	0.0000	0.0000	0.0000
4.0	0.0000	0.0000	0.0000
4.1	0.0000	0.0000	0.0000
4.2	0.0000	0.0000	0.0000
4.3	0.0000	0.0000	0.0000
4.4	0.0000	0.0000	0.0000
4.5	0.0000	0.0000	0.0000
4.6	0.0000	0.0000	0.0000
4.7	0.0000	0.0000	0.0000
4.8	0.0000	0.0000	0.0000
4.9	0.0000	0.0000	0.0000
5.0	0.0000	0.0000	0.0000
5.1	0.0000	0.0000	0.0000
5.2	0.0000	0.0000	0.0000
5.3	0.0000	0.0000	0.0000
5.4	0.0000	0.0000	0.0000
5.5	0.0000	0.0000	0.0000
5.6	0.0000	0.0000	0.0000
5.7	0.0000	0.0000	0.0000
5.8	0.0000	0.0000	0.0000
5.9	0.0000	0.0000	0.0000
6.0	0.0000	0.0000	0.0000
6.1	0.0000	0.0000	0.0000
6.2	0.0000	0.0000	0.0000
6.3	0.0000	0.0000	0.0000
6.4	0.0000	0.0000	0.0000
6.5	0.0000	0.0000	0.0000
6.6	0.0000	0.0000	0.0000
6.7	0.0000	0.0000	0.0000
6.8	0.0000	0.0000	0.0000
6.9	0.0000	0.0000	0.0000
7.0	0.0000	0.0000	0.0000
7.1	0.0000	0.0000	0.0000
7.2	0.0000	0.0000	0.0000
7.3	0.0000	0.0000	0.0000
7.4	0.0000	0.0000	0.0000
7.5	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
7.6	0.0000	0.0000	0.0000
7.7	0.0000	0.0000	0.0000
7.8	0.0000	0.0000	0.0000
7.9	0.0000	0.0000	0.0000
8.0	0.0000	0.0000	0.0000
8.1	0.0000	0.0000	0.0000
8.2	0.0000	0.0000	0.0000
8.3	0.0000	0.0000	0.0000
8.4	0.0000	0.0000	0.0000
8.5	0.0000	0.0000	0.0000
8.6	0.0000	0.0000	0.0000
8.7	0.0000	0.0000	0.0000
8.8	0.0000	0.0000	0.0000
8.9	0.0000	0.0000	0.0000
9.0	0.0000	0.0000	0.0000
9.1	0.0000	0.0000	0.0000
9.2	0.0000	0.0000	0.0000
9.3	0.0000	0.0000	0.0000
9.4	0.0000	0.0000	0.0000
9.5	0.0000	0.0000	0.0000
9.6	0.0000	0.0000	0.0000
9.7	0.0000	0.0000	0.0000
9.8	0.0000	0.0000	0.0000
9.9	0.0000	0.0000	0.0000
10.0	0.0000	0.0000	0.0000
10.1	0.0000	0.0000	0.0000
10.2	0.0000	0.0000	0.0000
10.3	0.0000	0.0000	0.0000
10.4	0.0000	0.0000	0.0000
10.5	0.0000	0.0000	0.0000
10.6	0.0000	0.0000	0.0000
10.7	0.0000	0.0000	0.0000
10.8	0.0000	0.0000	0.0000
10.9	0.0000	0.0000	0.0000
11.0	0.0000	0.0000	0.0000
11.1	0.0000	0.0000	0.0000
11.2	0.0000	0.0000	0.0000
11.3	0.0000	0.0000	0.0000
11.4	0.0000	0.0000	0.0000
11.5	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
11.6	0.0000	0.0000	0.0000
11.7	0.0000	0.0000	0.0000
11.8	0.0000	0.0000	0.0000
11.9	0.0000	0.0000	0.0000
12.0	0.0000	0.0000	0.0000
12.1	0.0000	0.0000	0.0000
12.2	0.0000	0.0000	0.0000
12.3	0.0000	0.0000	0.0000
12.4	0.0000	0.0000	0.0000
12.5	0.0000	0.0000	0.0000
12.6	0.0000	0.0000	0.0000
12.7	0.0000	0.0000	0.0000
12.8	0.0000	0.0000	0.0000
12.9	0.0000	0.0000	0.0000
13.0	0.0000	0.0000	0.0000
13.1	0.0000	0.0000	0.0000
13.2	0.0000	0.0000	0.0000
13.3	0.0000	0.0000	0.0000
13.4	0.0000	0.0000	0.0000
13.5	0.0000	0.0000	0.0000
13.6	0.0000	0.0000	0.0000
13.7	0.0000	0.0000	0.0000
13.8	0.0000	0.0000	0.0000
13.9	0.0000	0.0000	0.0000
14.0	0.0000	0.0000	0.0000
14.1	0.0000	0.0000	0.0000
14.2	0.0000	0.0000	0.0000
14.3	0.0000	0.0000	0.0000
14.4	0.0000	0.0000	0.0000
14.5	0.0000	0.0000	0.0000
14.6	0.0000	0.0000	0.0000
14.7	0.0000	0.0000	0.0000
14.8	0.0000	0.0000	0.0000
14.9	0.0000	0.0000	0.0000
15.0	0.0000	0.0000	0.0000
15.1	0.0000	0.0000	0.0000
15.2	0.0000	0.0000	0.0000
15.3	0.0000	0.0000	0.0000
15.4	0.0000	0.0000	0.0000
15.5	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
15.6	0.0000	0.0000	0.0000
15.7	0.0000	0.0000	0.0000
15.8	0.0000	0.0000	0.0000
15.9	0.0000	0.0000	0.0000
16.0	0.0000	0.0000	0.0000
16.1	0.0000	0.0000	0.0000
16.2	0.0000	0.0000	0.0000
16.3	0.0000	0.0000	0.0000
16.4	0.0000	0.0000	0.0000
16.5	0.0000	0.0000	0.0000
16.6	0.0000	0.0000	0.0000
16.7	0.0000	0.0000	0.0000
16.8	0.0000	0.0000	0.0000
16.9	0.0000	0.0000	0.0000
17.0	0.0000	0.0000	0.0000
17.1	0.0000	0.0000	0.0000
17.2	0.0000	0.0000	0.0000
17.3	0.0000	0.0000	0.0000
17.4	0.0000	0.0000	0.0000
17.5	0.0000	0.0000	0.0000
17.6	0.0000	0.0000	0.0000
17.7	0.0000	0.0000	0.0000
17.8	0.0000	0.0000	0.0000
17.9	0.0000	0.0000	0.0000
18.0	0.0000	0.0000	0.0000
18.1	0.0000	0.0000	0.0000
18.2	0.0000	0.0000	0.0000
18.3	0.0000	0.0000	0.0000
18.4	0.0000	0.0000	0.0000
18.5	0.0000	0.0000	0.0000
18.6	0.0000	0.0000	0.0000
18.7	0.0000	0.0000	0.0000
18.8	0.0000	0.0000	0.0000
18.9	0.0000	0.0000	0.0000
19.0	0.0000	0.0000	0.0000
19.1	0.0000	0.0000	0.0000
19.2	0.0000	0.0000	0.0000
19.3	0.0000	0.0000	0.0000
19.4	0.0000	0.0000	0.0000
19.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
19.6	0.0000	0.0000	0.0000
19.7	0.0000	0.0000	0.0000
19.8	0.0000	0.0000	0.0000
19.9	0.0000	0.0000	0.0000
20.0	0.0000	0.0000	0.0000
20.1	0.0000	0.0000	0.0000
20.2	0.0000	0.0000	0.0000
20.3	0.0000	0.0000	0.0000
20.4	0.0000	0.0000	0.0000
20.5	0.0000	0.0000	0.0000
20.6	0.0000	0.0000	0.0000
20.7	0.0000	0.0000	0.0000
20.8	0.0000	0.0000	0.0000
20.9	0.0000	0.0000	0.0000
21.0	0.0000	0.0000	0.0000
21.1	0.0000	0.0000	0.0000
21.2	0.0000	0.0000	0.0000
21.3	0.0000	0.0000	0.0000
21.4	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000
21.6	0.0000	0.0000	0.0000
21.7	0.0000	0.0000	0.0000
21.8	0.0000	0.0000	0.0000
21.9	0.0000	0.0000	0.0000
22.0	0.0000	0.0000	0.0000
22.1	0.0000	0.0000	0.0000
22.2	0.0000	0.0000	0.0000
22.3	0.0000	0.0000	0.0000
22.4	0.0000	0.0000	0.0000
22.5	0.0000	0.0000	0.0000
22.6	0.0000	0.0000	0.0000
22.7	0.0000	0.0000	0.0000
22.8	0.0000	0.0000	0.0000
22.9	0.0000	0.0000	0.0000
23.0	0.0000	0.0000	0.0000
23.1	0.0000	0.0000	0.0000
23.2	0.0000	0.0000	0.0000
23.3	0.0000	0.0000	0.0000
23.4	0.0000	0.0000	0.0000
23.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
23.6	0.0000	0.0000	0.0000
23.7	0.0000	0.0000	0.0000
23.8	0.0000	0.0000	0.0000
23.9	0.0000	0.0000	0.0000
24.0	0.0000	0.0000	0.0000
24.1	0.0000	0.0000	0.0000
24.2	0.0000	0.0000	0.0000
24.3	0.0000	0.0000	0.0000
24.4	0.0000	0.0000	0.0000
24.5	0.0000	0.0000	0.0000
24.6	0.0000	0.0000	0.0000
24.7	0.0000	0.0000	0.0000
24.8	0.0000	0.0000	0.0000
24.9	0.0000	0.0000	0.0000
25.0	0.0000	0.0000	0.0000
25.1	0.0000	0.0000	0.0000
25.2	0.0000	0.0000	0.0000
25.3	0.0000	0.0000	0.0000
25.4	0.0000	0.0000	0.0000
25.5	0.0000	0.0000	0.0000
25.6	0.0000	0.0000	0.0000
25.7	0.0000	0.0000	0.0000
25.8	0.0000	0.0000	0.0000
25.9	0.0000	0.0000	0.0000
26.0	0.0000	0.0000	0.0000
26.1	0.0000	0.0000	0.0000
26.2	0.0000	0.0000	0.0000
26.3	0.0000	0.0000	0.0000
26.4	0.0000	0.0000	0.0000
26.5	0.0000	0.0000	0.0000
26.6	0.0000	0.0000	0.0000
26.7	0.0000	0.0000	0.0000
26.8	0.0000	0.0000	0.0000
26.9	0.0000	0.0000	0.0000
27.0	0.0000	0.0000	0.0000
27.1	0.0000	0.0000	0.0000
27.2	0.0000	0.0000	0.0000
27.3	0.0000	0.0000	0.0000
27.4	0.0000	0.0000	0.0000
27.5	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
27.6	0.0000	0.0000	0.0000
27.7	0.0000	0.0000	0.0000
27.8	0.0000	0.0000	0.0000
27.9	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000
28.1	0.0000	0.0000	0.0000
28.2	0.0000	0.0000	0.0000
28.3	0.0000	0.0000	0.0000
28.4	0.0000	0.0000	0.0000
28.5	0.0000	0.0000	0.0000
28.6	0.0000	0.0000	0.0000
28.7	0.0000	0.0000	0.0000
28.8	0.0000	0.0000	0.0000
28.9	0.0000	0.0000	0.0000
29.0	0.0000	0.0000	0.0000
29.1	0.0000	0.0000	0.0000
29.2	0.0000	0.0000	0.0000
29.3	0.0000	0.0000	0.0000
29.4	0.0000	0.0000	0.0000
29.5	0.0000	0.0000	0.0000
29.6	0.0000	0.0000	0.0000
29.7	0.0000	0.0000	0.0000
29.8	0.0000	0.0000	0.0000
29.9	0.0000	0.0000	0.0000
30.0	0.0000	0.0000	0.0000
30.1	0.0000	0.0000	0.0000
30.2	0.0000	0.0000	0.0000
30.3	0.0000	0.0000	0.0000
30.4	0.0000	0.0000	0.0000
30.5	0.0000	0.0000	0.0000
30.6	0.0000	0.0000	0.0000
30.7	0.0000	0.0000	0.0000
30.8	0.0000	0.0000	0.0000
30.9	0.0000	0.0000	0.0000
31.0	0.0000	0.0000	0.0000
31.1	0.0000	0.0000	0.0000
31.2	0.0000	0.0000	0.0000
31.3	0.0000	0.0000	0.0000
31.4	0.0000	0.0000	0.0000
31.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
31.6	0.0000	0.0000	0.0000
31.7	0.0000	0.0000	0.0000
31.8	0.0000	0.0000	0.0000
31.9	0.0000	0.0000	0.0000
32.0	0.0000	0.0000	0.0000
32.1	0.0000	0.0000	0.0000
32.2	0.0000	0.0000	0.0000
32.3	0.0000	0.0000	0.0000
32.4	0.0000	0.0000	0.0000
32.5	0.0000	0.0000	0.0000
32.6	0.0000	0.0000	0.0000
32.7	0.0000	0.0000	0.0000
32.8	0.0000	0.0000	0.0000
32.9	0.0000	0.0000	0.0000
33.0	0.0000	0.0000	0.0000
33.1	0.0000	0.0000	0.0000
33.2	0.0000	0.0000	0.0000
33.3	0.0000	0.0000	0.0000
33.4	0.0000	0.0000	0.0000
33.5	0.0000	0.0000	0.0000
33.6	0.0000	0.0000	0.0000
33.7	0.0000	0.0000	0.0000
33.8	0.0000	0.0000	0.0000
33.9	0.0000	0.0000	0.0000
34.0	0.0000	0.0000	0.0000
34.1	0.0000	0.0000	0.0000
34.2	0.0000	0.0000	0.0000
34.3	0.0000	0.0000	0.0000
34.4	0.0000	0.0000	0.0000
34.5	0.0000	0.0000	0.0000
34.6	0.0000	0.0000	0.0000
34.7	0.0000	0.0000	0.0000
34.8	0.0000	0.0000	0.0000
34.9	0.0000	0.0000	0.0000
35.0	0.0000	0.0000	0.0000
35.1	0.0000	0.0000	0.0000
35.2	0.0000	0.0000	0.0000
35.3	0.0000	0.0000	0.0000
35.4	0.0000	0.0000	0.0000
35.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
35.6	0.0000	0.0000	0.0000
35.7	0.0000	0.0000	0.0000
35.8	0.0000	0.0000	0.0000
35.9	0.0000	0.0000	0.0000
36.0	0.0000	0.0000	0.0000
36.1	0.0000	0.0000	0.0000
36.2	0.0000	0.0000	0.0000
36.3	0.0000	0.0000	0.0000
36.4	0.0000	0.0000	0.0000
36.5	0.0000	0.0000	0.0000
36.6	0.0000	0.0000	0.0000
36.7	0.0000	0.0000	0.0000
36.8	0.0000	0.0000	0.0000
36.9	0.0000	0.0000	0.0000
37.0	0.0000	0.0000	0.0000
37.1	0.0000	0.0000	0.0000
37.2	0.0000	0.0000	0.0000
37.3	0.0000	0.0000	0.0000
37.4	0.0000	0.0000	0.0000
37.5	0.0000	0.0000	0.0000
37.6	0.0000	0.0000	0.0000
37.7	0.0000	0.0000	0.0000
37.8	0.0000	0.0000	0.0000
37.9	0.0000	0.0000	0.0000
38.0	0.0000	0.0000	0.0000
38.1	0.0000	0.0000	0.0000
38.2	0.0000	0.0000	0.0000
38.3	0.0000	0.0000	0.0000
38.4	0.0000	0.0000	0.0000
38.5	0.0000	0.0000	0.0000
38.6	0.0000	0.0000	0.0000
38.7	0.0000	0.0000	0.0000
38.8	0.0000	0.0000	0.0000
38.9	0.0000	0.0000	0.0000
39.0	0.0000	0.0000	0.0000
39.1	0.0000	0.0000	0.0000
39.2	0.0000	0.0000	0.0000
39.3	0.0000	0.0000	0.0000
39.4	0.0000	0.0000	0.0000
39.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
39.6	0.0000	0.0000	0.0000
39.7	0.0000	0.0000	0.0000
39.8	0.0000	0.0000	0.0000
39.9	0.0000	0.0000	0.0000
40.0	0.0000	0.0000	0.0000
40.1	0.0000	0.0000	0.0000
40.2	0.0000	0.0000	0.0000
40.3	0.0000	0.0000	0.0000
40.4	0.0000	0.0000	0.0000
40.5	0.0000	0.0000	0.0000
40.6	0.0000	0.0000	0.0000
40.7	0.0000	0.0000	0.0000
40.8	0.0000	0.0000	0.0000
40.9	0.0000	0.0000	0.0000
41.0	0.0000	0.0000	0.0000
41.1	0.0000	0.0000	0.0000
41.2	0.0000	0.0000	0.0000
41.3	0.0000	0.0000	0.0000
41.4	0.0000	0.0000	0.0000
41.5	0.0000	0.0000	0.0000
41.6	0.0000	0.0000	0.0000
41.7	0.0000	0.0000	0.0000
41.8	0.0000	0.0000	0.0000
41.9	0.0000	0.0000	0.0000
42.0	0.0000	0.0000	0.0000
42.1	0.0000	0.0000	0.0000
42.2	0.0000	0.0000	0.0000
42.3	0.0000	0.0000	0.0000
42.4	0.0000	0.0000	0.0000
42.5	0.0000	0.0000	0.0000
42.6	0.0000	0.0000	0.0000
42.7	0.0000	0.0000	0.0000
42.8	0.0000	0.0000	0.0000
42.9	0.0000	0.0000	0.0000
43.0	0.0000	0.0000	0.0000
43.1	0.0000	0.0000	0.0000
43.2	0.0000	0.0000	0.0000
43.3	0.0000	0.0000	0.0000
43.4	0.0000	0.0000	0.0000
43.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
43.6	0.0000	0.0000	0.0000
43.7	0.0000	0.0000	0.0000
43.8	0.0000	0.0000	0.0000
43.9	0.0000	0.0000	0.0000
44.0	0.0000	0.0000	0.0000
44.1	0.0000	0.0000	0.0000
44.2	0.0000	0.0000	0.0000
44.3	0.0000	0.0000	0.0000
44.4	0.0000	0.0000	0.0000
44.5	0.0000	0.0000	0.0000
44.6	0.0000	0.0000	0.0000
44.7	0.0000	0.0000	0.0000
44.8	0.0000	0.0000	0.0000
44.9	0.0000	0.0000	0.0000
45.0	0.0000	0.0000	0.0000
45.1	0.0000	0.0000	0.0000
45.2	0.0000	0.0000	0.0000
45.3	0.0000	0.0000	0.0000
45.4	0.0000	0.0000	0.0000
45.5	0.0000	0.0000	0.0000
45.6	0.0000	0.0000	0.0000
45.7	0.0000	0.0000	0.0000
45.8	0.0000	0.0000	0.0000
45.9	0.0000	0.0000	0.0000
46.0	0.0000	0.0000	0.0000
46.1	0.0000	0.0000	0.0000
46.2	0.0000	0.0000	0.0000
46.3	0.0000	0.0000	0.0000
46.4	0.0000	0.0000	0.0000
46.5	0.0000	0.0000	0.0000
46.6	0.0000	0.0000	0.0000
46.7	0.0000	0.0000	0.0000
46.8	0.0000	0.0000	0.0000
46.9	0.0000	0.0000	0.0000
47.0	0.0000	0.0000	0.0000
47.1	0.0000	0.0000	0.0000
47.2	0.0000	0.0000	0.0000
47.3	0.0000	0.0000	0.0000
47.4	0.0000	0.0000	0.0000
47.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
47.6	0.0000	0.0000	0.0000
47.7	0.0000	0.0000	0.0000
47.8	0.0000	0.0000	0.0000
47.9	0.0000	0.0000	0.0000
48.0	0.0000	0.0000	0.0000
48.1	0.0000	0.0000	0.0000
48.2	0.0000	0.0000	0.0000
48.3	0.0000	0.0000	0.0000
48.4	0.0000	0.0000	0.0000
48.5	0.0000	0.0000	0.0000
48.6	0.0000	0.0000	0.0000
48.7	0.0000	0.0000	0.0000
48.8	0.0000	0.0000	0.0000
48.9	0.0000	0.0000	0.0000
49.0	0.0000	0.0000	0.0000
49.1	0.0000	0.0000	0.0000
49.2	0.0000	0.0000	0.0000
49.3	0.0000	0.0000	0.0000
49.4	0.0000	0.0000	0.0000
49.5	0.0000	0.0000	0.0000
49.6	0.0000	0.0000	0.0000
49.7	0.0000	0.0000	0.0000
49.8	0.0000	0.0000	0.0000
49.9	0.0000	0.0000	0.0000
50.0	0.0000	0.0000	0.0000
50.1	0.0000	0.0000	0.0000
50.2	0.0000	0.0000	0.0000
50.3	0.0000	0.0000	0.0000
50.4	0.0000	0.0000	0.0000
50.5	0.0000	0.0000	0.0000
50.6	0.0000	0.0000	0.0000
50.7	0.0000	0.0000	0.0000
50.8	0.0000	0.0000	0.0000
50.9	0.0000	0.0000	0.0000
51.0	0.0000	0.0000	0.0000
51.1	0.0000	0.0000	0.0000
51.2	0.0000	0.0000	0.0000
51.3	0.0000	0.0000	0.0000
51.4	0.0000	0.0000	0.0000
51.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
51.6	0.0000	0.0000	0.0000
51.7	0.0000	0.0000	0.0000
51.8	0.0000	0.0000	0.0000
51.9	0.0000	0.0000	0.0000
52.0	0.0000	0.0000	0.0000
52.1	0.0000	0.0000	0.0000
52.2	0.0000	0.0000	0.0000
52.3	0.0000	0.0000	0.0000
52.4	0.0000	0.0000	0.0000
52.5	0.0000	0.0000	0.0000
52.6	0.0000	0.0000	0.0000
52.7	0.0000	0.0000	0.0000
52.8	0.0000	0.0000	0.0000
52.9	0.0000	0.0000	0.0000
53.0	0.0000	0.0000	0.0000
53.1	0.0000	0.0000	0.0000
53.2	0.0000	0.0000	0.0000
53.3	0.0000	0.0000	0.0000
53.4	0.0000	0.0000	0.0000
53.5	0.0000	0.0000	0.0000
53.6	0.0000	0.0000	0.0000
53.7	0.0000	0.0000	0.0000
53.8	0.0000	0.0000	0.0000
53.9	0.0000	0.0000	0.0000
54.0	0.0000	0.0000	0.0000
54.1	0.0000	0.0000	0.0000
54.2	0.0000	0.0000	0.0000
54.3	0.0000	0.0000	0.0000
54.4	0.0000	0.0000	0.0000
54.5	0.0000	0.0000	0.0000
54.6	0.0000	0.0000	0.0000
54.7	0.0000	0.0000	0.0000
54.8	0.0000	0.0000	0.0000
54.9	0.0000	0.0000	0.0000
55.0	0.0000	0.0000	0.0000
55.1	0.0000	0.0000	0.0000
55.2	0.0000	0.0000	0.0000
55.3	0.0000	0.0000	0.0000
55.4	0.0000	0.0000	0.0000
55.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
55.6	0.0000	0.0000	0.0000
55.7	0.0000	0.0000	0.0000
55.8	0.0000	0.0000	0.0000
55.9	0.0000	0.0000	0.0000
56.0	0.0000	0.0000	0.0000
56.1	0.0000	0.0000	0.0000
56.2	0.0000	0.0000	0.0000
56.3	0.0000	0.0000	0.0000
56.4	0.0000	0.0000	0.0000
56.5	0.0000	0.0000	0.0000
56.6	0.0000	0.0000	0.0000
56.7	0.0000	0.0000	0.0000
56.8	0.0000	0.0000	0.0000
56.9	0.0000	0.0000	0.0000
57.0	0.0000	0.0000	0.0000
57.1	0.0000	0.0000	0.0000
57.2	0.0000	0.0000	0.0000
57.3	0.0000	0.0000	0.0000
57.4	0.0000	0.0000	0.0000
57.5	0.0000	0.0000	0.0000
57.6	0.0000	0.0000	0.0000
57.7	0.0000	0.0000	0.0000
57.8	0.0000	0.0000	0.0000
57.9	0.0000	0.0000	0.0000
58.0	0.0000	0.0000	0.0000
58.1	0.0000	0.0000	0.0000
58.2	0.0000	0.0000	0.0000
58.3	0.0000	0.0000	0.0000
58.4	0.0000	0.0000	0.0000
58.5	0.0000	0.0000	0.0000
58.6	0.0000	0.0000	0.0000
58.7	0.0000	0.0000	0.0000
58.8	0.0000	0.0000	0.0000
58.9	0.0000	0.0000	0.0000
59.0	0.0000	0.0000	0.0000
59.1	0.0000	0.0000	0.0000
59.2	0.0000	0.0000	0.0000
59.3	0.0000	0.0000	0.0000
59.4	0.0000	0.0000	0.0000
59.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
59.6	0.0000	0.0000	0.0000
59.7	0.0000	0.0000	0.0000
59.8	0.0000	0.0000	0.0000
59.9	0.0000	0.0000	0.0000
60.0	0.0000	0.0000	0.0000
60.1	0.0000	0.0000	0.0000
60.2	0.0000	0.0000	0.0000
60.3	0.0000	0.0000	0.0000
60.4	0.0000	0.0000	0.0000
60.5	0.0000	0.0000	0.0000
60.6	0.0000	0.0000	0.0000
60.7	0.0000	0.0000	0.0000
60.8	0.0000	0.0000	0.0000
60.9	0.0000	0.0000	0.0000
61.0	0.0000	0.0000	0.0000
61.1	0.0000	0.0000	0.0000
61.2	0.0000	0.0000	0.0000
61.3	0.0000	0.0000	0.0000
61.4	0.0000	0.0000	0.0000
61.5	0.0000	0.0000	0.0000
61.6	0.0000	0.0000	0.0000
61.7	0.0000	0.0000	0.0000
61.8	0.0000	0.0000	0.0000
61.9	0.0000	0.0000	0.0000
62.0	0.0000	0.0000	0.0000
62.1	0.0000	0.0000	0.0000
62.2	0.0000	0.0000	0.0000
62.3	0.0000	0.0000	0.0000
62.4	0.0000	0.0000	0.0000
62.5	0.0000	0.0000	0.0000
62.6	0.0000	0.0000	0.0000
62.7	0.0000	0.0000	0.0000
62.8	0.0000	0.0000	0.0000
62.9	0.0000	0.0000	0.0000
63.0	0.0000	0.0000	0.0000
63.1	0.0000	0.0000	0.0000
63.2	0.0000	0.0000	0.0000
63.3	0.0000	0.0000	0.0000
63.4	0.0000	0.0000	0.0000
63.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
63.6	0.0000	0.0000	0.0000
63.7	0.0000	0.0000	0.0000
63.8	0.0000	0.0000	0.0000
63.9	0.0000	0.0000	0.0000
64.0	0.0000	0.0000	0.0000
64.1	0.0000	0.0000	0.0000
64.2	0.0000	0.0000	0.0000
64.3	0.0000	0.0000	0.0000
64.4	0.0000	0.0000	0.0000
64.5	0.0000	0.0000	0.0000
64.6	0.0000	0.0000	0.0000
64.7	0.0000	0.0000	0.0000
64.8	0.0000	0.0000	0.0000
64.9	0.0000	0.0000	0.0000
65.0	0.0000	0.0000	0.0000
65.1	0.0000	0.0000	0.0000
65.2	0.0000	0.0000	0.0000
65.3	0.0000	0.0000	0.0000
65.4	0.0000	0.0000	0.0000
65.5	0.0000	0.0000	0.0000
65.6	0.0000	0.0000	0.0000
65.7	0.0000	0.0000	0.0000
65.8	0.0000	0.0000	0.0000
65.9	0.0000	0.0000	0.0000
66.0	0.0000	0.0000	0.0000
66.1	0.0000	0.0000	0.0000
66.2	0.0000	0.0000	0.0000
66.3	0.0000	0.0000	0.0000
66.4	0.0000	0.0000	0.0000
66.5	0.0000	0.0000	0.0000
66.6	0.0000	0.0000	0.0000
66.7	0.0000	0.0000	0.0000
66.8	0.0000	0.0000	0.0000
66.9	0.0000	0.0000	0.0000
67.0	0.0000	0.0000	0.0000
67.1	0.0000	0.0000	0.0000
67.2	0.0000	0.0000	0.0000
67.3	0.0000	0.0000	0.0000
67.4	0.0000	0.0000	0.0000
67.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
67.6	0.0000	0.0000	0.0000
67.7	0.0000	0.0000	0.0000
67.8	0.0000	0.0000	0.0000
67.9	0.0000	0.0000	0.0000
68.0	0.0000	0.0000	0.0000
68.1	0.0000	0.0000	0.0000
68.2	0.0000	0.0000	0.0000
68.3	0.0000	0.0000	0.0000
68.4	0.0000	0.0000	0.0000
68.5	0.0000	0.0000	0.0000
68.6	0.0000	0.0000	0.0000
68.7	0.0000	0.0000	0.0000
68.8	0.0000	0.0000	0.0000
68.9	0.0000	0.0000	0.0000
69.0	0.0000	0.0000	0.0000
69.1	0.0000	0.0000	0.0000
69.2	0.0000	0.0000	0.0000
69.3	0.0000	0.0000	0.0000
69.4	0.0000	0.0000	0.0000
69.5	0.0000	0.0000	0.0000
69.6	0.0000	0.0000	0.0000
69.7	0.0000	0.0000	0.0000
69.8	0.0000	0.0000	0.0000
69.9	0.0000	0.0000	0.0000
70.0	0.0000	0.0000	0.0000
70.1	0.0000	0.0000	0.0000
70.2	0.0000	0.0000	0.0000
70.3	0.0000	0.0000	0.0000
70.4	0.0000	0.0000	0.0000
70.5	0.0000	0.0000	0.0000
70.6	0.0000	0.0000	0.0000
70.7	0.0000	0.0000	0.0000
70.8	0.0000	0.0000	0.0000
70.9	0.0000	0.0000	0.0000
71.0	0.0000	0.0000	0.0000
71.1	0.0000	0.0000	0.0000
71.2	0.0000	0.0000	0.0000
71.3	0.0000	0.0000	0.0000
71.4	0.0000	0.0000	0.0000
71.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
71.6	0.0000	0.0000	0.0000
71.7	0.0000	0.0000	0.0000
71.8	0.0000	0.0000	0.0000
71.9	0.0000	0.0000	0.0000
72.0	0.0000	0.0000	0.0000
72.1	0.0000	0.0000	0.0000
72.2	0.0000	0.0000	0.0000
72.3	0.0000	0.0000	0.0000
72.4	0.0000	0.0000	0.0000
72.5	0.0000	0.0000	0.0000
72.6	0.0000	0.0000	0.0000
72.7	0.0000	0.0000	0.0000
72.8	0.0000	0.0000	0.0000
72.9	0.0000	0.0000	0.0000
73.0	0.0000	0.0000	0.0000
73.1	0.0000	0.0000	0.0000
73.2	0.0000	0.0000	0.0000
73.3	0.0000	0.0000	0.0000
73.4	0.0000	0.0000	0.0000
73.5	0.0000	0.0000	0.0000
73.6	0.0000	0.0000	0.0000
73.7	0.0000	0.0000	0.0000
73.8	0.0000	0.0000	0.0000
73.9	0.0000	0.0000	0.0000
74.0	0.0000	0.0000	0.0000
74.1	0.0000	0.0000	0.0000
74.2	0.0000	0.0000	0.0000
74.3	0.0000	0.0000	0.0000
74.4	0.0000	0.0000	0.0000
74.5	0.0000	0.0000	0.0000
74.6	0.0000	0.0000	0.0000
74.7	0.0000	0.0000	0.0000
74.8	0.0000	0.0000	0.0000
74.9	0.0000	0.0000	0.0000
75.0	0.0000	0.0000	0.0000
75.1	0.0000	0.0000	0.0000
75.2	0.0000	0.0000	0.0000
75.3	0.0000	0.0000	0.0000
75.4	0.0000	0.0000	0.0000
75.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
75.6	0.0000	0.0000	0.0000
75.7	0.0000	0.0000	0.0000
75.8	0.0000	0.0000	0.0000
75.9	0.0000	0.0000	0.0000
76.0	0.0000	0.0000	0.0000
76.1	0.0000	0.0000	0.0000
76.2	0.0000	0.0000	0.0000
76.3	0.0000	0.0000	0.0000
76.4	0.0000	0.0000	0.0000
76.5	0.0000	0.0000	0.0000
76.6	0.0000	0.0000	0.0000
76.7	0.0000	0.0000	0.0000
76.8	0.0000	0.0000	0.0000
76.9	0.0000	0.0000	0.0000
77.0	0.0000	0.0000	0.0000
77.1	0.0000	0.0000	0.0000
77.2	0.0000	0.0000	0.0000
77.3	0.0000	0.0000	0.0000
77.4	0.0000	0.0000	0.0000
77.5	0.0000	0.0000	0.0000
77.6	0.0000	0.0000	0.0000
77.7	0.0000	0.0000	0.0000
77.8	0.0000	0.0000	0.0000
77.9	0.0000	0.0000	0.0000
78.0	0.0000	0.0000	0.0000
78.1	0.0000	0.0000	0.0000
78.2	0.0000	0.0000	0.0000
78.3	0.0000	0.0000	0.0000
78.4	0.0000	0.0000	0.0000
78.5	0.0000	0.0000	0.0000
78.6	0.0000	0.0000	0.0000
78.7	0.0000	0.0000	0.0000
78.8	0.0000	0.0000	0.0000
78.9	0.0000	0.0000	0.0000
79.0	0.0000	0.0000	0.0000
79.1	0.0000	0.0000	0.0000
79.2	0.0000	0.0000	0.0000
79.3	0.0000	0.0000	0.0000
79.4	0.0000	0.0000	0.0000
79.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
79.6	0.0000	0.0000	0.0000
79.7	0.0000	0.0000	0.0000
79.8	0.0000	0.0000	0.0000
79.9	0.0000	0.0000	0.0000
80.0	0.0000	0.0000	0.0000
80.1	0.0000	0.0000	0.0000
80.2	0.0000	0.0000	0.0000
80.3	0.0000	0.0000	0.0000
80.4	0.0000	0.0000	0.0000
80.5	0.0000	0.0000	0.0000
80.6	0.0000	0.0000	0.0000
80.7	0.0000	0.0000	0.0000
80.8	0.0000	0.0000	0.0000
80.9	0.0000	0.0000	0.0000
81.0	0.0000	0.0000	0.0000
81.1	0.0000	0.0000	0.0000
81.2	0.0000	0.0000	0.0000
81.3	0.0000	0.0000	0.0000
81.4	0.0000	0.0000	0.0000
81.5	0.0000	0.0000	0.0000
81.6	0.0000	0.0000	0.0000
81.7	0.0000	0.0000	0.0000
81.8	0.0000	0.0000	0.0000
81.9	0.0000	0.0000	0.0000
82.0	0.0000	0.0000	0.0000
82.1	0.0000	0.0000	0.0000
82.2	0.0000	0.0000	0.0000
82.3	0.0000	0.0000	0.0000
82.4	0.0000	0.0000	0.0000
82.5	0.0000	0.0000	0.0000
82.6	0.0000	0.0000	0.0000
82.7	0.0000	0.0000	0.0000
82.8	0.0000	0.0000	0.0000
82.9	0.0000	0.0000	0.0000
83.0	0.0000	0.0000	0.0000
83.1	0.0000	0.0000	0.0000
83.2	0.0000	0.0000	0.0000
83.3	0.0000	0.0000	0.0000
83.4	0.0000	0.0000	0.0000
83.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
83.6	0.0000	0.0000	0.0000
83.7	0.0000	0.0000	0.0000
83.8	0.0000	0.0000	0.0000
83.9	0.0000	0.0000	0.0000
84.0	0.0000	0.0000	0.0000
84.1	0.0000	0.0000	0.0000
84.2	0.0000	0.0000	0.0000
84.3	0.0000	0.0000	0.0000
84.4	0.0000	0.0000	0.0000
84.5	0.0000	0.0000	0.0000
84.6	0.0000	0.0000	0.0000
84.7	0.0000	0.0000	0.0000
84.8	0.0000	0.0000	0.0000
84.9	0.0000	0.0000	0.0000
85.0	0.0000	0.0000	0.0000
85.1	0.0000	0.0000	0.0000
85.2	0.0000	0.0000	0.0000
85.3	0.0000	0.0000	0.0000
85.4	0.0000	0.0000	0.0000
85.5	0.0000	0.0000	0.0000
85.6	0.0000	0.0000	0.0000
85.7	0.0000	0.0000	0.0000
85.8	0.0000	0.0000	0.0000
85.9	0.0000	0.0000	0.0000
86.0	0.0000	0.0000	0.0000
86.1	0.0000	0.0000	0.0000
86.2	0.0000	0.0000	0.0000
86.3	0.0000	0.0000	0.0000
86.4	0.0000	0.0000	0.0000
86.5	0.0000	0.0000	0.0000
86.6	0.0000	0.0000	0.0000
86.7	0.0000	0.0000	0.0000
86.8	0.0000	0.0000	0.0000
86.9	0.0000	0.0000	0.0000
87.0	0.0000	0.0000	0.0000
87.1	0.0000	0.0000	0.0000
87.2	0.0000	0.0000	0.0000
87.3	0.0000	0.0000	0.0000
87.4	0.0000	0.0000	0.0000
87.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
87.6	0.0000	0.0000	0.0000
87.7	0.0000	0.0000	0.0000
87.8	0.0000	0.0000	0.0000
87.9	0.0000	0.0000	0.0000
88.0	0.0000	0.0000	0.0000
88.1	0.0000	0.0000	0.0000
88.2	0.0000	0.0000	0.0000
88.3	0.0000	0.0000	0.0000
88.4	0.0000	0.0000	0.0000
88.5	0.0000	0.0000	0.0000
88.6	0.0000	0.0000	0.0000
88.7	0.0000	0.0000	0.0000
88.8	0.0000	0.0000	0.0000
88.9	0.0000	0.0000	0.0000
89.0	0.0000	0.0000	0.0000
89.1	0.0000	0.0000	0.0000
89.2	0.0000	0.0000	0.0000
89.3	0.0000	0.0000	0.0000
89.4	0.0000	0.0000	0.0000
89.5	0.0000	0.0000	0.0000
89.6	0.0000	0.0000	0.0000
89.7	0.0000	0.0000	0.0000
89.8	0.0000	0.0000	0.0000
89.9	0.0000	0.0000	0.0000
90.0	0.0000	0.0000	0.0000
90.1	0.0000	0.0000	0.0000
90.2	0.0000	0.0000	0.0000
90.3	0.0000	0.0000	0.0000
90.4	0.0000	0.0000	0.0000
90.5	0.0000	0.0000	0.0000
90.6	0.0000	0.0000	0.0000
90.7	0.0000	0.0000	0.0000
90.8	0.0000	0.0000	0.0000
90.9	0.0000	0.0000	0.0000
91.0	0.0000	0.0000	0.0000
91.1	0.0000	0.0000	0.0000
91.2	0.0000	0.0000	0.0000
91.3	0.0000	0.0000	0.0000
91.4	0.0000	0.0000	0.0000
91.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
91.6	0.0000	0.0000	0.0000
91.7	0.0000	0.0000	0.0000
91.8	0.0000	0.0000	0.0000
91.9	0.0000	0.0000	0.0000
92.0	0.0000	0.0000	0.0000
92.1	0.0000	0.0000	0.0000
92.2	0.0000	0.0000	0.0000
92.3	0.0000	0.0000	0.0000
92.4	0.0000	0.0000	0.0000
92.5	0.0000	0.0000	0.0000
92.6	0.0000	0.0000	0.0000
92.7	0.0000	0.0000	0.0000
92.8	0.0000	0.0000	0.0000
92.9	0.0000	0.0000	0.0000
93.0	0.0000	0.0000	0.0000
93.1	0.0000	0.0000	0.0000
93.2	0.0000	0.0000	0.0000
93.3	0.0000	0.0000	0.0000
93.4	0.0000	0.0000	0.0000
93.5	0.0000	0.0000	0.0000
93.6	0.0000	0.0000	0.0000
93.7	0.0000	0.0000	0.0000
93.8	0.0000	0.0000	0.0000
93.9	0.0000	0.0000	0.0000
94.0	0.0000	0.0000	0.0000
94.1	0.0000	0.0000	0.0000
94.2	0.0000	0.0000	0.0000
94.3	0.0000	0.0000	0.0000
94.4	0.0000	0.0000	0.0000
94.5	0.0000	0.0000	0.0000
94.6	0.0000	0.0000	0.0000
94.7	0.0000	0.0000	0.0000
94.8	0.0000	0.0000	0.0000
94.9	0.0000	0.0000	0.0000
95.0	0.0000	0.0000	0.0000
95.1	0.0000	0.0000	0.0000
95.2	0.0000	0.0000	0.0000
95.3	0.0000	0.0000	0.0000
95.4	0.0000	0.0000	0.0000
95.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
95.6	0.0000	0.0000	0.0000
95.7	0.0000	0.0000	0.0000
95.8	0.0000	0.0000	0.0000
95.9	0.0000	0.0000	0.0000
96.0	0.0000	0.0000	0.0000
96.1	0.0000	0.0000	0.0000
96.2	0.0000	0.0000	0.0000
96.3	0.0000	0.0000	0.0000
96.4	0.0000	0.0000	0.0000
96.5	0.0000	0.0000	0.0000
96.6	0.0000	0.0000	0.0000
96.7	0.0000	0.0000	0.0000
96.8	0.0000	0.0000	0.0000
96.9	0.0000	0.0000	0.0000
97.0	0.0000	0.0000	0.0000
97.1	0.0000	0.0000	0.0000
97.2	0.0000	0.0000	0.0000
97.3	0.0000	0.0000	0.0000
97.4	0.0000	0.0000	0.0000
97.5	0.0000	0.0000	0.0000
97.6	0.0000	0.0000	0.0000
97.7	0.0000	0.0000	0.0000
97.8	0.0000	0.0000	0.0000
97.9	0.0000	0.0000	0.0000
98.0	0.0000	0.0000	0.0000
98.1	0.0000	0.0000	0.0000
98.2	0.0000	0.0000	0.0000
98.3	0.0000	0.0000	0.0000
98.4	0.0000	0.0000	0.0000
98.5	0.0000	0.0000	0.0000
98.6	0.0000	0.0000	0.0000
98.7	0.0000	0.0000	0.0000
98.8	0.0000	0.0000	0.0000
98.9	0.0000	0.0000	0.0000
99.0	0.0000	0.0000	0.0000
99.1	0.0000	0.0000	0.0000
99.2	0.0000	0.0000	0.0000
99.3	0.0000	0.0000	0.0000
99.4	0.0000	0.0000	0.0000
99.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
99.6	0.0000	0.0000	0.0000
99.7	0.0000	0.0000	0.0000
99.8	0.0000	0.0000	0.0000
99.9	0.0000	0.0000	0.0000
100.0	0.0000	0.0000	0.0000
100.1	0.0000	0.0000	0.0000
100.2	0.0000	0.0000	0.0000
100.3	0.0000	0.0000	0.0000
100.4	0.0000	0.0000	0.0000
100.5	0.0000	0.0000	0.0000
100.6	0.0000	0.0000	0.0000
100.7	0.0000	0.0000	0.0000
100.8	0.0000	0.0000	0.0000
100.9	0.0000	0.0000	0.0000
101.0	0.0000	0.0000	0.0000
101.1	0.0000	0.0000	0.0000
101.2	0.0000	0.0000	0.0000
101.3	0.0000	0.0000	0.0000
101.4	0.0000	0.0000	0.0000
101.5	0.0000	0.0000	0.0000
101.6	0.0000	0.0000	0.0000
101.7	0.0000	0.0000	0.0000
101.8	0.0000	0.0000	0.0000
101.9	0.0000	0.0000	0.0000
102.0	0.0000	0.0000	0.0000
102.1	0.0000	0.0000	0.0000
102.2	0.0000	0.0000	0.0000
102.3	0.0000	0.0000	0.0000
102.4	0.0000	0.0000	0.0000
102.5	0.0000	0.0000	0.0000
102.6	0.0000	0.0000	0.0000
102.7	0.0000	0.0000	0.0000
102.8	0.0000	0.0000	0.0000
102.9	0.0000	0.0000	0.0000
103.0	0.0000	0.0000	0.0000
103.1	0.0000	0.0000	0.0000
103.2	0.0000	0.0000	0.0000
103.3	0.0000	0.0000	0.0000
103.4	0.0000	0.0000	0.0000
103.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
103.6	0.0000	0.0000	0.0000
103.7	0.0000	0.0000	0.0000
103.8	0.0000	0.0000	0.0000
103.9	0.0000	0.0000	0.0000
104.0	0.0000	0.0000	0.0000
104.1	0.0000	0.0000	0.0000
104.2	0.0000	0.0000	0.0000
104.3	0.0000	0.0000	0.0000
104.4	0.0000	0.0000	0.0000
104.5	0.0000	0.0000	0.0000
104.6	0.0000	0.0000	0.0000
104.7	0.0000	0.0000	0.0000
104.8	0.0000	0.0000	0.0000
104.9	0.0000	0.0000	0.0000
105.0	0.0000	0.0000	0.0000
105.1	0.0000	0.0000	0.0000
105.2	0.0000	0.0000	0.0000
105.3	0.0000	0.0000	0.0000
105.4	0.0000	0.0000	0.0000
105.5	0.0000	0.0000	0.0000
105.6	0.0000	0.0000	0.0000
105.7	0.0000	0.0000	0.0000
105.8	0.0000	0.0000	0.0000
105.9	0.0000	0.0000	0.0000
106.0	0.0000	0.0000	0.0000
106.1	0.0000	0.0000	0.0000
106.2	0.0000	0.0000	0.0000
106.3	0.0000	0.0000	0.0000
106.4	0.0000	0.0000	0.0000
106.5	0.0000	0.0000	0.0000
106.6	0.0000	0.0000	0.0000
106.7	0.0000	0.0000	0.0000
106.8	0.0000	0.0000	0.0000
106.9	0.0000	0.0000	0.0000
107.0	0.0000	0.0000	0.0000
107.1	0.0000	0.0000	0.0000
107.2	0.0000	0.0000	0.0000
107.3	0.0000	0.0000	0.0000
107.4	0.0000	0.0000	0.0000
107.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
107.6	0.0000	0.0000	0.0000
107.7	0.0000	0.0000	0.0000
107.8	0.0000	0.0000	0.0000
107.9	0.0000	0.0000	0.0000
108.0	0.0000	0.0000	0.0000
108.1	0.0000	0.0000	0.0000
108.2	0.0000	0.0000	0.0000
108.3	0.0000	0.0000	0.0000
108.4	0.0000	0.0000	0.0000
108.5	0.0000	0.0000	0.0000
108.6	0.0000	0.0000	0.0000
108.7	0.0000	0.0000	0.0000
108.8	0.0000	0.0000	0.0000
108.9	0.0000	0.0000	0.0000
109.0	0.0000	0.0000	0.0000
109.1	0.0000	0.0000	0.0000
109.2	0.0000	0.0000	0.0000
109.3	0.0000	0.0000	0.0000
109.4	0.0000	0.0000	0.0000
109.5	0.0000	0.0000	0.0000
109.6	0.0000	0.0000	0.0000
109.7	0.0000	0.0000	0.0000
109.8	0.0000	0.0000	0.0000
109.9	0.0000	0.0000	0.0000
110.0	0.0000	0.0000	0.0000
110.1	0.0000	0.0000	0.0000
110.2	0.0000	0.0000	0.0000
110.3	0.0000	0.0000	0.0000
110.4	0.0000	0.0000	0.0000
110.5	0.0000	0.0000	0.0000
110.6	0.0000	0.0000	0.0000
110.7	0.0000	0.0000	0.0000
110.8	0.0000	0.0000	0.0000
110.9	0.0000	0.0000	0.0000
111.0	0.0000	0.0000	0.0000
111.1	0.0000	0.0000	0.0000
111.2	0.0000	0.0000	0.0000
111.3	0.0000	0.0000	0.0000
111.4	0.0000	0.0000	0.0000
111.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
111.6	0.0000	0.0000	0.0000
111.7	0.0000	0.0000	0.0000
111.8	0.0000	0.0000	0.0000
111.9	0.0000	0.0000	0.0000
112.0	0.0000	0.0000	0.0000
112.1	0.0000	0.0000	0.0000
112.2	0.0000	0.0000	0.0000
112.3	0.0000	0.0000	0.0000
112.4	0.0000	0.0000	0.0000
112.5	0.0000	0.0000	0.0000
112.6	0.0000	0.0000	0.0000
112.7	0.0000	0.0000	0.0000
112.8	0.0000	0.0000	0.0000
112.9	0.0000	0.0000	0.0000
113.0	0.0000	0.0000	0.0000
113.1	0.0000	0.0000	0.0000
113.2	0.0000	0.0000	0.0000
113.3	0.0000	0.0000	0.0000
113.4	0.0000	0.0000	0.0000
113.5	0.0000	0.0000	0.0000
113.6	0.0000	0.0000	0.0000
113.7	0.0000	0.0000	0.0000
113.8	0.0000	0.0000	0.0000
113.9	0.0000	0.0000	0.0000
114.0	0.0000	0.0000	0.0000
114.1	0.0000	0.0000	0.0000
114.2	0.0000	0.0000	0.0000
114.3	0.0000	0.0000	0.0000
114.4	0.0000	0.0000	0.0000
114.5	0.0000	0.0000	0.0000
114.6	0.0000	0.0000	0.0000
114.7	0.0000	0.0000	0.0000
114.8	0.0000	0.0000	0.0000
114.9	0.0000	0.0000	0.0000
115.0	0.0000	0.0000	0.0000
115.1	0.0000	0.0000	0.0000
115.2	0.0000	0.0000	0.0000
115.3	0.0000	0.0000	0.0000
115.4	0.0000	0.0000	0.0000
115.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
115.6	0.0000	0.0000	0.0000
115.7	0.0000	0.0000	0.0000
115.8	0.0000	0.0000	0.0000
115.9	0.0000	0.0000	0.0000
116.0	0.0000	0.0000	0.0000
116.1	0.0000	0.0000	0.0000
116.2	0.0000	0.0000	0.0000
116.3	0.0000	0.0000	0.0000
116.4	0.0000	0.0000	0.0000
116.5	0.0000	0.0000	0.0000
116.6	0.0000	0.0000	0.0000
116.7	0.0000	0.0000	0.0000
116.8	0.0000	0.0000	0.0000
116.9	0.0000	0.0000	0.0000
117.0	0.0000	0.0000	0.0000
117.1	0.0000	0.0000	0.0000
117.2	0.0000	0.0000	0.0000
117.3	0.0000	0.0000	0.0000
117.4	0.0000	0.0000	0.0000
117.5	0.0000	0.0000	0.0000
117.6	0.0000	0.0000	0.0000
117.7	0.0000	0.0000	0.0000
117.8	0.0000	0.0000	0.0000
117.9	0.0000	0.0000	0.0000
118.0	0.0000	0.0000	0.0000
118.1	0.0000	0.0000	0.0000
118.2	0.0000	0.0000	0.0000
118.3	0.0000	0.0000	0.0000
118.4	0.0000	0.0000	0.0000
118.5	0.0000	0.0000	0.0000
118.6	0.0000	0.0000	0.0000
118.7	0.0000	0.0000	0.0000
118.8	0.0000	0.0000	0.0000
118.9	0.0000	0.0000	0.0000
119.0	0.0000	0.0000	0.0000
119.1	0.0000	0.0000	0.0000
119.2	0.0000	0.0000	0.0000
119.3	0.0000	0.0000	0.0000
119.4	0.0000	0.0000	0.0000
119.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
119.6	0.0000	0.0000	0.0000
119.7	0.0000	0.0000	0.0000
119.8	0.0000	0.0000	0.0000
119.9	0.0000	0.0000	0.0000
120.0	0.0000	0.0000	0.0000
120.1	0.0000	0.0000	0.0000
120.2	0.0000	0.0000	0.0000
120.3	0.0000	0.0000	0.0000
120.4	0.0000	0.0000	0.0000
120.5	0.0000	0.0000	0.0000
120.6	0.0000	0.0000	0.0000
120.7	0.0000	0.0000	0.0000
120.8	0.0000	0.0000	0.0000
120.9	0.0000	0.0000	0.0000
121.0	0.0000	0.0000	0.0000
121.1	0.0000	0.0000	0.0000
121.2	0.0000	0.0000	0.0000
121.3	0.0000	0.0000	0.0000
121.4	0.0000	0.0000	0.0000
121.5	0.0000	0.0000	0.0000
121.6	0.0000	0.0000	0.0000
121.7	0.0000	0.0000	0.0000
121.8	0.0000	0.0000	0.0000
121.9	0.0000	0.0000	0.0000
122.0	0.0000	0.0000	0.0000
122.1	0.0000	0.0000	0.0000
122.2	0.0000	0.0000	0.0000
122.3	0.0000	0.0000	0.0000
122.4	0.0000	0.0000	0.0000
122.5	0.0000	0.0000	0.0000
122.6	0.0000	0.0000	0.0000
122.7	0.0000	0.0000	0.0000
122.8	0.0000	0.0000	0.0000
122.9	0.0000	0.0000	0.0000
123.0	0.0000	0.0000	0.0000
123.1	0.0000	0.0000	0.0000
123.2	0.0000	0.0000	0.0000
123.3	0.0000	0.0000	0.0000
123.4	0.0000	0.0000	0.0000
123.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
123.6	0.0000	0.0000	0.0000
123.7	0.0000	0.0000	0.0000
123.8	0.0000	0.0000	0.0000
123.9	0.0000	0.0000	0.0000
124.0	0.0000	0.0000	0.0000
124.1	0.0000	0.0000	0.0000
124.2	0.0000	0.0000	0.0000
124.3	0.0000	0.0000	0.0000
124.4	0.0000	0.0000	0.0000
124.5	0.0000	0.0000	0.0000
124.6	0.0000	0.0000	0.0000
124.7	0.0000	0.0000	0.0000
124.8	0.0000	0.0000	0.0000
124.9	0.0000	0.0000	0.0000
125.0	0.0000	0.0000	0.0000
125.1	0.0000	0.0000	0.0000
125.2	0.0000	0.0000	0.0000
125.3	0.0000	0.0000	0.0000
125.4	0.0000	0.0000	0.0000
125.5	0.0000	0.0000	0.0000
125.6	0.0000	0.0000	0.0000
125.7	0.0000	0.0000	0.0000
125.8	0.0000	0.0000	0.0000
125.9	0.0000	0.0000	0.0000
126.0	0.0000	0.0000	0.0000
126.1	0.0000	0.0000	0.0000
126.2	0.0000	0.0000	0.0000
126.3	0.0000	0.0000	0.0000
126.4	0.0000	0.0000	0.0000
126.5	0.0000	0.0000	0.0000
126.6	0.0000	0.0000	0.0000
126.7	0.0000	0.0000	0.0000
126.8	0.0000	0.0000	0.0000
126.9	0.0000	0.0000	0.0000
127.0	0.0000	0.0000	0.0000
127.1	0.0000	0.0000	0.0000
127.2	0.0000	0.0000	0.0000
127.3	0.0000	0.0000	0.0000
127.4	0.0000	0.0000	0.0000
127.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
127.6	0.0000	0.0000	0.0000
127.7	0.0000	0.0000	0.0000
127.8	0.0000	0.0000	0.0000
127.9	0.0000	0.0000	0.0000
128.0	0.0000	0.0000	0.0000
128.1	0.0000	0.0000	0.0000
128.2	0.0000	0.0000	0.0000
128.3	0.0000	0.0000	0.0000
128.4	0.0000	0.0000	0.0000
128.5	0.0000	0.0000	0.0000
128.6	0.0000	0.0000	0.0000
128.7	0.0000	0.0000	0.0000
128.8	0.0000	0.0000	0.0000
128.9	0.0000	0.0000	0.0000
129.0	0.0000	0.0000	0.0000
129.1	0.0000	0.0000	0.0000
129.2	0.0000	0.0000	0.0000
129.3	0.0000	0.0000	0.0000
129.4	0.0000	0.0000	0.0000
129.5	0.0000	0.0000	0.0000
129.6	0.0000	0.0000	0.0000
129.7	0.0000	0.0000	0.0000
129.8	0.0000	0.0000	0.0000
129.9	0.0000	0.0000	0.0000
130.0	0.0000	0.0000	0.0000
130.1	0.0000	0.0000	0.0000
130.2	0.0000	0.0000	0.0000
130.3	0.0000	0.0000	0.0000
130.4	0.0000	0.0000	0.0000
130.5	0.0000	0.0000	0.0000
130.6	0.0000	0.0000	0.0000
130.7	0.0000	0.0000	0.0000
130.8	0.0000	0.0000	0.0000
130.9	0.0000	0.0000	0.0000
131.0	0.0000	0.0000	0.0000
131.1	0.0000	0.0000	0.0000
131.2	0.0000	0.0000	0.0000
131.3	0.0000	0.0000	0.0000
131.4	0.0000	0.0000	0.0000
131.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
131.6	0.0000	0.0000	0.0000
131.7	0.0000	0.0000	0.0000
131.8	0.0000	0.0000	0.0000
131.9	0.0000	0.0000	0.0000
132.0	0.0000	0.0000	0.0000
132.1	0.0000	0.0000	0.0000
132.2	0.0000	0.0000	0.0000
132.3	0.0000	0.0000	0.0000
132.4	0.0000	0.0000	0.0000
132.5	0.0000	0.0000	0.0000
132.6	0.0000	0.0000	0.0000
132.7	0.0000	0.0000	0.0000
132.8	0.0000	0.0000	0.0000
132.9	0.0000	0.0000	0.0000
133.0	0.0000	0.0000	0.0000
133.1	0.0000	0.0000	0.0000
133.2	0.0000	0.0000	0.0000
133.3	0.0000	0.0000	0.0000
133.4	0.0000	0.0000	0.0000
133.5	0.0000	0.0000	0.0000
133.6	0.0000	0.0000	0.0000
133.7	0.0000	0.0000	0.0000
133.8	0.0000	0.0000	0.0000
133.9	0.0000	0.0000	0.0000
134.0	0.0000	0.0000	0.0000
134.1	0.0000	0.0000	0.0000
134.2	0.0000	0.0000	0.0000
134.3	0.0000	0.0000	0.0000
134.4	0.0000	0.0000	0.0000
134.5	0.0000	0.0000	0.0000
134.6	0.0000	0.0000	0.0000
134.7	0.0000	0.0000	0.0000
134.8	0.0000	0.0000	0.0000
134.9	0.0000	0.0000	0.0000
135.0	0.0000	0.0000	0.0000
135.1	0.0000	0.0000	0.0000
135.2	0.0000	0.0000	0.0000
135.3	0.0000	0.0000	0.0000
135.4	0.0000	0.0000	0.0000
135.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
135.6	0.0000	0.0000	0.0000
135.7	0.0000	0.0000	0.0000
135.8	0.0000	0.0000	0.0000
135.9	0.0000	0.0000	0.0000
136.0	0.0000	0.0000	0.0000
136.1	0.0000	0.0000	0.0000
136.2	0.0000	0.0000	0.0000
136.3	0.0000	0.0000	0.0000
136.4	0.0000	0.0000	0.0000
136.5	0.0000	0.0000	0.0000
136.6	0.0000	0.0000	0.0000
136.7	0.0000	0.0000	0.0000
136.8	0.0000	0.0000	0.0000
136.9	0.0000	0.0000	0.0000
137.0	0.0000	0.0000	0.0000
137.1	0.0000	0.0000	0.0000
137.2	0.0000	0.0000	0.0000
137.3	0.0000	0.0000	0.0000
137.4	0.0000	0.0000	0.0000
137.5	0.0000	0.0000	0.0000
137.6	0.0000	0.0000	0.0000
137.7	0.0000	0.0000	0.0000
137.8	0.0000	0.0000	0.0000
137.9	0.0000	0.0000	0.0000
138.0	0.0000	0.0000	0.0000
138.1	0.0000	0.0000	0.0000
138.2	0.0000	0.0000	0.0000
138.3	0.0000	0.0000	0.0000
138.4	0.0000	0.0000	0.0000
138.5	0.0000	0.0000	0.0000
138.6	0.0000	0.0000	0.0000
138.7	0.0000	0.0000	0.0000
138.8	0.0000	0.0000	0.0000
138.9	0.0000	0.0000	0.0000
139.0	0.0000	0.0000	0.0000
139.1	0.0000	0.0000	0.0000
139.2	0.0000	0.0000	0.0000
139.3	0.0000	0.0000	0.0000
139.4	0.0000	0.0000	0.0000
139.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
139.6	0.0000	0.0000	0.0000
139.7	0.0000	0.0000	0.0000
139.8	0.0000	0.0000	0.0000
139.9	0.0000	0.0000	0.0000
140.0	0.0000	0.0000	0.0000
140.1	0.0000	0.0000	0.0000
140.2	0.0000	0.0000	0.0000
140.3	0.0000	0.0000	0.0000
140.4	0.0000	0.0000	0.0000
140.5	0.0000	0.0000	0.0000
140.6	0.0000	0.0000	0.0000
140.7	0.0000	0.0000	0.0000
140.8	0.0000	0.0000	0.0000
140.9	0.0000	0.0000	0.0000
141.0	0.0000	0.0000	0.0000
141.1	0.0000	0.0000	0.0000
141.2	0.0000	0.0000	0.0000
141.3	0.0000	0.0000	0.0000
141.4	0.0000	0.0000	0.0000
141.5	0.0000	0.0000	0.0000
141.6	0.0000	0.0000	0.0000
141.7	0.0000	0.0000	0.0000
141.8	0.0000	0.0000	0.0000
141.9	0.0000	0.0000	0.0000
142.0	0.0000	0.0000	0.0000
142.1	0.0000	0.0000	0.0000
142.2	0.0000	0.0000	0.0000
142.3	0.0000	0.0000	0.0000
142.4	0.0000	0.0000	0.0000
142.5	0.0000	0.0000	0.0000
142.6	0.0000	0.0000	0.0000
142.7	0.0000	0.0000	0.0000
142.8	0.0000	0.0000	0.0000
142.9	0.0000	0.0000	0.0000
143.0	0.0000	0.0000	0.0000
143.1	0.0000	0.0000	0.0000
143.2	0.0000	0.0000	0.0000
143.3	0.0000	0.0000	0.0000
143.4	0.0000	0.0000	0.0000
143.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
143.6	0.0000	0.0000	0.0000
143.7	0.0000	0.0000	0.0000
143.8	0.0000	0.0000	0.0000
143.9	0.0000	0.0000	0.0000
144.0	0.0000	0.0000	0.0000
144.1	0.0000	0.0000	0.0000
144.2	0.0000	0.0000	0.0000
144.3	0.0000	0.0000	0.0000
144.4	0.0000	0.0000	0.0000
144.5	0.0000	0.0000	0.0000
144.6	0.0000	0.0000	0.0000
144.7	0.0000	0.0000	0.0000
144.8	0.0000	0.0000	0.0000
144.9	0.0000	0.0000	0.0000
145.0	0.0000	0.0000	0.0000
145.1	0.0000	0.0000	0.0000
145.2	0.0000	0.0000	0.0000
145.3	0.0000	0.0000	0.0000
145.4	0.0000	0.0000	0.0000
145.5	0.0000	0.0000	0.0000
145.6	0.0000	0.0000	0.0000
145.7	0.0000	0.0000	0.0000
145.8	0.0000	0.0000	0.0000
145.9	0.0000	0.0000	0.0000
146.0	0.0000	0.0000	0.0000
146.1	0.0000	0.0000	0.0000
146.2	0.0000	0.0000	0.0000
146.3	0.0000	0.0000	0.0000
146.4	0.0000	0.0000	0.0000
146.5	0.0000	0.0000	0.0000
146.6	0.0000	0.0000	0.0000
146.7	0.0000	0.0000	0.0000
146.8	0.0000	0.0000	0.0000
146.9	0.0000	0.0000	0.0000
147.0	0.0000	0.0000	0.0000
147.1	0.0000	0.0000	0.0000
147.2	0.0000	0.0000	0.0000
147.3	0.0000	0.0000	0.0000
147.4	0.0000	0.0000	0.0000
147.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
147.6	0.0000	0.0000	0.0000
147.7	0.0000	0.0000	0.0000
147.8	0.0000	0.0000	0.0000
147.9	0.0000	0.0000	0.0000
148.0	0.0000	0.0000	0.0000
148.1	0.0000	0.0000	0.0000
148.2	0.0000	0.0000	0.0000
148.3	0.0000	0.0000	0.0000
148.4	0.0000	0.0000	0.0000
148.5	0.0000	0.0000	0.0000
148.6	0.0000	0.0000	0.0000
148.7	0.0000	0.0000	0.0000
148.8	0.0000	0.0000	0.0000
148.9	0.0000	0.0000	0.0000
149.0	0.0000	0.0000	0.0000
149.1	0.0000	0.0000	0.0000
149.2	0.0000	0.0000	0.0000
149.3	0.0000	0.0000	0.0000
149.4	0.0000	0.0000	0.0000
149.5	0.0000	0.0000	0.0000
149.6	0.0000	0.0000	0.0000
149.7	0.0000	0.0000	0.0000
149.8	0.0000	0.0000	0.0000
149.9	0.0000	0.0000	0.0000
150.0	0.0000	0.0000	0.0000
150.1	0.0000	0.0000	0.0000
150.2	0.0000	0.0000	0.0000
150.3	0.0000	0.0000	0.0000
150.4	0.0000	0.0000	0.0000
150.5	0.0000	0.0000	0.0000
150.6	0.0000	0.0000	0.0000
150.7	0.0000	0.0000	0.0000
150.8	0.0000	0.0000	0.0000
150.9	0.0000	0.0000	0.0000
151.0	0.0000	0.0000	0.0000
151.1	0.0000	0.0000	0.0000
151.2	0.0000	0.0000	0.0000
151.3	0.0000	0.0000	0.0000
151.4	0.0000	0.0000	0.0000
151.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
151.6	0.0000	0.0000	0.0000
151.7	0.0000	0.0000	0.0000
151.8	0.0000	0.0000	0.0000
151.9	0.0000	0.0000	0.0000
152.0	0.0000	0.0000	0.0000
152.1	0.0000	0.0000	0.0000
152.2	0.0000	0.0000	0.0000
152.3	0.0000	0.0000	0.0000
152.4	0.0000	0.0000	0.0000
152.5	0.0000	0.0000	0.0000
152.6	0.0000	0.0000	0.0000
152.7	0.0000	0.0000	0.0000
152.8	0.0000	0.0000	0.0000
152.9	0.0000	0.0000	0.0000
153.0	0.0000	0.0000	0.0000
153.1	0.0000	0.0000	0.0000
153.2	0.0000	0.0000	0.0000
153.3	0.0000	0.0000	0.0000
153.4	0.0000	0.0000	0.0000
153.5	0.0000	0.0000	0.0000
153.6	0.0000	0.0000	0.0000
153.7	0.0000	0.0000	0.0000
153.8	0.0000	0.0000	0.0000
153.9	0.0000	0.0000	0.0000
154.0	0.0000	0.0000	0.0000
154.1	0.0000	0.0000	0.0000
154.2	0.0000	0.0000	0.0000
154.3	0.0000	0.0000	0.0000
154.4	0.0000	0.0000	0.0000
154.5	0.0000	0.0000	0.0000
154.6	0.0000	0.0000	0.0000
154.7	0.0000	0.0000	0.0000
154.8	0.0000	0.0000	0.0000
154.9	0.0000	0.0000	0.0000
155.0	0.0000	0.0000	0.0000
155.1	0.0000	0.0000	0.0000
155.2	0.0000	0.0000	0.0000
155.3	0.0000	0.0000	0.0000
155.4	0.0000	0.0000	0.0000
155.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
155.6	0.0000	0.0000	0.0000
155.7	0.0000	0.0000	0.0000
155.8	0.0000	0.0000	0.0000
155.9	0.0000	0.0000	0.0000
156.0	0.0000	0.0000	0.0000
156.1	0.0000	0.0000	0.0000
156.2	0.0000	0.0000	0.0000
156.3	0.0000	0.0000	0.0000
156.4	0.0000	0.0000	0.0000
156.5	0.0000	0.0000	0.0000
156.6	0.0000	0.0000	0.0000
156.7	0.0000	0.0000	0.0000
156.8	0.0000	0.0000	0.0000
156.9	0.0000	0.0000	0.0000
157.0	0.0000	0.0000	0.0000
157.1	0.0000	0.0000	0.0000
157.2	0.0000	0.0000	0.0000
157.3	0.0000	0.0000	0.0000
157.4	0.0000	0.0000	0.0000
157.5	0.0000	0.0000	0.0000
157.6	0.0000	0.0000	0.0000
157.7	0.0000	0.0000	0.0000
157.8	0.0000	0.0000	0.0000
157.9	0.0000	0.0000	0.0000
158.0	0.0000	0.0000	0.0000
158.1	0.0000	0.0000	0.0000
158.2	0.0000	0.0000	0.0000
158.3	0.0000	0.0000	0.0000
158.4	0.0000	0.0000	0.0000
158.5	0.0000	0.0000	0.0000
158.6	0.0000	0.0000	0.0000
158.7	0.0000	0.0000	0.0000
158.8	0.0000	0.0000	0.0000
158.9	0.0000	0.0000	0.0000
159.0	0.0000	0.0000	0.0000
159.1	0.0000	0.0000	0.0000
159.2	0.0000	0.0000	0.0000
159.3	0.0000	0.0000	0.0000
159.4	0.0000	0.0000	0.0000
159.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
159.6	0.0000	0.0000	0.0000
159.7	0.0000	0.0000	0.0000
159.8	0.0000	0.0000	0.0000
159.9	0.0000	0.0000	0.0000
160.0	0.0000	0.0000	0.0000
160.1	0.0000	0.0000	0.0000
160.2	0.0000	0.0000	0.0000
160.3	0.0000	0.0000	0.0000
160.4	0.0000	0.0000	0.0000
160.5	0.0000	0.0000	0.0000
160.6	0.0000	0.0000	0.0000
160.7	0.0000	0.0000	0.0000
160.8	0.0000	0.0000	0.0000
160.9	0.0000	0.0001	0.0001
161.0	0.0000	0.0001	0.0001
161.1	0.0000	0.0001	0.0001
161.2	0.0000	0.0001	0.0001
161.3	0.0000	0.0001	0.0001
161.4	0.0000	0.0001	0.0001
161.5	0.0000	0.0001	0.0001
161.6	0.0000	0.0001	0.0001
161.7	0.0000	0.0001	0.0001
161.8	0.0000	0.0001	0.0001
161.9	0.0000	0.0001	0.0001
162.0	0.0000	0.0001	0.0001
162.1	0.0000	0.0001	0.0001
162.2	0.0000	0.0002	0.0002
162.3	0.0000	0.0002	0.0002
162.4	0.0000	0.0002	0.0002
162.5	0.0000	0.0002	0.0002
162.6	0.0000	0.0002	0.0002
162.7	0.0000	0.0002	0.0002
162.8	0.0000	0.0002	0.0002
162.9	0.0000	0.0003	0.0003
163.0	0.0000	0.0003	0.0003
163.1	0.0000	0.0003	0.0003
163.2	0.0000	0.0003	0.0003
163.3	0.0000	0.0004	0.0004
163.4	0.0000	0.0004	0.0004
163.5	0.0000	0.0004	0.0004

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
163.6	0.0000	0.0005	0.0005
163.7	0.0000	0.0005	0.0005
163.8	0.0000	0.0005	0.0005
163.9	0.0000	0.0006	0.0006
164.0	0.0000	0.0006	0.0006
164.1	0.0000	0.0007	0.0007
164.2	0.0000	0.0007	0.0007
164.3	0.0000	0.0008	0.0008
164.4	0.0000	0.0008	0.0008
164.5	0.0000	0.0009	0.0009
164.6	0.0000	0.0009	0.0009
164.7	0.0000	0.0010	0.0010
164.8	0.0000	0.0011	0.0011
164.9	0.0000	0.0012	0.0012
165.0	0.0000	0.0012	0.0012
165.1	0.0000	0.0013	0.0013
165.2	0.0000	0.0014	0.0014
165.3	0.0000	0.0015	0.0015
165.4	0.0000	0.0016	0.0016
165.5	0.0000	0.0017	0.0017
165.6	0.0000	0.0018	0.0018
165.7	0.0000	0.0020	0.0020
165.8	0.0000	0.0021	0.0021
165.9	0.0000	0.0022	0.0022
166.0	0.0000	0.0024	0.0024
166.1	0.0000	0.0026	0.0026
166.2	0.0000	0.0027	0.0027
166.3	0.0000	0.0029	0.0029
166.4	0.0000	0.0031	0.0031
166.5	0.0000	0.0033	0.0033
166.6	0.0000	0.0035	0.0035
166.7	0.0000	0.0037	0.0037
166.8	0.0000	0.0040	0.0040
166.9	0.0000	0.0042	0.0042
167.0	0.0000	0.0045	0.0045
167.1	0.0000	0.0047	0.0047
167.2	0.0000	0.0050	0.0050
167.3	0.0000	0.0053	0.0053
167.4	0.0000	0.0057	0.0057
167.5	0.0000	0.0060	0.0060

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x	$A(x)$	P_{v1}	P_{v2}
167.6	0.0000	0.0064	0.0064
167.7	0.0000	0.0067	0.0067
167.8	0.0000	0.0071	0.0071
167.9	0.0000	0.0076	0.0076
168.0	0.0000	0.0080	0.0080
168.1	0.0000	0.0085	0.0085
168.2	0.0000	0.0089	0.0089
168.3	0.0000	0.0094	0.0094
168.4	0.0000	0.0100	0.0100
168.5	0.0000	0.0105	0.0105
168.6	0.0000	0.0111	0.0111
168.7	0.0000	0.0117	0.0117
168.8	0.0000	0.0124	0.0124
168.9	0.0000	0.0130	0.0130
169.0	0.0000	0.0137	0.0137
169.1	0.0000	0.0145	0.0145
169.2	0.0000	0.0152	0.0152
169.3	0.0000	0.0161	0.0161
169.4	0.0000	0.0169	0.0169
169.5	0.0000	0.0178	0.0178
169.6	0.0000	0.0187	0.0187
169.7	0.0000	0.0196	0.0196
169.8	0.0000	0.0206	0.0206
169.9	0.0000	0.0217	0.0217
170.0	0.0000	0.0227	0.0227
170.1	0.0000	0.0239	0.0239
170.2	0.0000	0.0250	0.0250
170.3	0.0000	0.0263	0.0263
170.4	0.0000	0.0275	0.0275
170.5	0.0000	0.0288	0.0288
170.6	0.0000	0.0302	0.0302
170.7	0.0000	0.0316	0.0316
170.8	0.0000	0.0331	0.0331
170.9	0.0000	0.0346	0.0346
171.0	0.0000	0.0362	0.0362
171.1	0.0000	0.0379	0.0379
171.2	0.0000	0.0396	0.0396
171.3	0.0000	0.0413	0.0413
171.4	0.0000	0.0432	0.0432
171.5	0.0000	0.0451	0.0451

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x	$A(x)$	P_{v1}	P_{v2}
171.6	0.0000	0.0470	0.0470
171.7	0.0000	0.0491	0.0491
171.8	0.0000	0.0512	0.0512
171.9	0.0000	0.0533	0.0533
172.0	0.0000	0.0556	0.0556
172.1	0.0000	0.0579	0.0579
172.2	0.0000	0.0603	0.0603
172.3	0.0000	0.0628	0.0628
172.4	0.0000	0.0653	0.0653
172.5	0.0000	0.0679	0.0679
172.6	0.0000	0.0706	0.0706
172.7	0.0000	0.0734	0.0734
172.8	0.0000	0.0763	0.0763
172.9	0.0000	0.0792	0.0792
173.0	0.0000	0.0822	0.0822
173.1	0.0000	0.0854	0.0854
173.2	0.0000	0.0886	0.0886
173.3	0.0000	0.0919	0.0919
173.4	0.0000	0.0952	0.0952
173.5	0.0000	0.0987	0.0987
173.6	0.0000	0.1023	0.1023
173.7	0.0000	0.1059	0.1059
173.8	0.0000	0.1097	0.1097
173.9	0.0000	0.1135	0.1135
174.0	0.0000	0.1175	0.1175
174.1	0.0000	0.1215	0.1215
174.2	0.0000	0.1256	0.1256
174.3	0.0000	0.1298	0.1298
174.4	0.0000	0.1341	0.1341
174.5	0.0000	0.1386	0.1386
174.6	0.0000	0.1431	0.1431
174.7	0.0000	0.1477	0.1477
174.8	0.0000	0.1524	0.1524
174.9	0.0000	0.1572	0.1572
175.0	0.0000	0.1621	0.1621
175.1	0.0000	0.1671	0.1671
175.2	0.0000	0.1722	0.1722
175.3	0.0000	0.1774	0.1774
175.4	0.0000	0.1826	0.1826
175.5	0.0000	0.1880	0.1880

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x	$A(x)$	P_{v1}	P_{v2}
175.6	0.0000	0.1935	0.1935
175.7	0.0000	0.1991	0.1991
175.8	0.0000	0.2047	0.2047
175.9	0.0000	0.2105	0.2105
176.0	0.0000	0.2163	0.2163
176.1	0.0000	0.2223	0.2223
176.2	0.0000	0.2283	0.2283
176.3	0.0000	0.2344	0.2344
176.4	0.0000	0.2407	0.2407
176.5	0.0000	0.2470	0.2470
176.6	0.0000	0.2533	0.2533
176.7	0.0000	0.2598	0.2598
176.8	0.0000	0.2664	0.2664
176.9	0.0000	0.2730	0.2730
177.0	0.0000	0.2797	0.2797
177.1	0.0000	0.2865	0.2865
177.2	0.0000	0.2933	0.2933
177.3	0.0000	0.3003	0.3003
177.4	0.0000	0.3073	0.3073
177.5	0.0000	0.3144	0.3144
177.6	0.0000	0.3215	0.3215
177.7	0.0000	0.3287	0.3287
177.8	0.0000	0.3360	0.3360
177.9	0.0000	0.3433	0.3433
178.0	0.0000	0.3507	0.3507
178.1	0.0000	0.3582	0.3582
178.2	0.0000	0.3657	0.3657
178.3	0.0000	0.3732	0.3732
178.4	0.0000	0.3808	0.3808
178.5	0.0000	0.3884	0.3884
178.6	0.0000	0.3961	0.3961
178.7	0.0000	0.4038	0.4038
178.8	0.0000	0.4116	0.4116
178.9	0.0000	0.4194	0.4194
179.0	0.0000	0.4272	0.4272
179.1	0.0000	0.4351	0.4351
179.2	0.0000	0.4429	0.4429
179.3	0.0000	0.4508	0.4508
179.4	0.0000	0.4587	0.4587
179.5	0.0004	0.4666	0.4666

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x	$A(x)$	P_{v1}	P_{v2}
179.6	0.0038	0.4746	0.4746
179.7	0.0226	0.4825	0.4825
179.8	0.0909	0.4905	0.4905
179.9	0.2512	0.4984	0.4984
180.0	0.5001	0.5064	0.5064
180.1	0.7491	0.5143	0.5143
180.2	0.9103	0.5222	0.5222
180.3	0.9780	0.5302	0.5302
180.4	0.9964	0.5381	0.5381
180.5	0.9996	0.5460	0.5460
180.6	0.9999	0.5538	0.5538
180.7	1.0000	0.5617	0.5617
180.8	1.0000	0.5695	0.5695
180.9	1.0000	0.5773	0.5773
181.0	1.0000	0.5851	0.5851
181.1	1.0000	0.5928	0.5928
181.2	1.0000	0.6005	0.6005
181.3	1.0000	0.6081	0.6081
181.4	1.0000	0.6157	0.6157
181.5	1.0000	0.6233	0.6233
181.6	1.0000	0.6308	0.6308
181.7	1.0000	0.6383	0.6383
181.8	1.0000	0.6457	0.6457
181.9	1.0000	0.6530	0.6530
182.0	1.0000	0.6603	0.6603
182.1	1.0000	0.6676	0.6676
182.2	1.0000	0.6747	0.6747
182.3	1.0000	0.6818	0.6818
182.4	1.0000	0.6889	0.6889
182.5	1.0000	0.6958	0.6958
182.6	1.0000	0.7027	0.7027
182.7	1.0000	0.7095	0.7095
182.8	1.0000	0.7163	0.7163
182.9	1.0000	0.7229	0.7229
183.0	1.0000	0.7295	0.7295
183.1	1.0000	0.7360	0.7360
183.2	1.0000	0.7424	0.7424
183.3	1.0000	0.7488	0.7488
183.4	1.0000	0.7550	0.7550
183.5	1.0000	0.7612	0.7612

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x	$A(x)$	P_{v1}	P_{v2}
183.6	1.0000	0.7673	0.7673
183.7	1.0000	0.7733	0.7733
183.8	1.0000	0.7792	0.7792
183.9	1.0000	0.7850	0.7850
184.0	1.0000	0.7907	0.7907
184.1	1.0000	0.7963	0.7963
184.2	1.0000	0.8019	0.8019
184.3	1.0000	0.8073	0.8073
184.4	1.0000	0.8127	0.8127
184.5	1.0000	0.8179	0.8179
184.6	1.0000	0.8231	0.8231
184.7	1.0000	0.8282	0.8282
184.8	1.0000	0.8331	0.8331
184.9	1.0000	0.8380	0.8380
185.0	1.0000	0.8428	0.8428
185.1	1.0000	0.8475	0.8475
185.2	1.0000	0.8521	0.8521
185.3	1.0000	0.8566	0.8566
185.4	1.0000	0.8610	0.8610
185.5	1.0000	0.8653	0.8653
185.6	1.0000	0.8695	0.8695
185.7	1.0000	0.8736	0.8736
185.8	1.0000	0.8776	0.8776
185.9	1.0000	0.8816	0.8816
186.0	1.0000	0.8854	0.8854
186.1	1.0000	0.8892	0.8892
186.2	1.0000	0.8929	0.8929
186.3	1.0000	0.8964	0.8964
186.4	1.0000	0.8999	0.8999
186.5	1.0000	0.9033	0.9033
186.6	1.0000	0.9066	0.9066
186.7	1.0000	0.9099	0.9099
186.8	1.0000	0.9130	0.9130
186.9	1.0000	0.9161	0.9161
187.0	1.0000	0.9191	0.9191
187.1	1.0000	0.9220	0.9220
187.2	1.0000	0.9248	0.9248
187.3	1.0000	0.9275	0.9275
187.4	1.0000	0.9302	0.9302
187.5	1.0000	0.9328	0.9328

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x	$A(x)$	P_{v1}	P_{v2}
187.6	1.0000	0.9353	0.9353
187.7	1.0000	0.9377	0.9377
187.8	1.0000	0.9401	0.9401
187.9	1.0000	0.9424	0.9424
188.0	1.0000	0.9446	0.9446
188.1	1.0000	0.9467	0.9467
188.2	1.0000	0.9488	0.9488
188.3	1.0000	0.9508	0.9508
188.4	1.0000	0.9528	0.9528
188.5	1.0000	0.9547	0.9547
188.6	1.0000	0.9565	0.9565
188.7	1.0000	0.9583	0.9583
188.8	1.0000	0.9600	0.9600
188.9	1.0000	0.9617	0.9617
189.0	1.0000	0.9633	0.9633
189.1	1.0000	0.9648	0.9648
189.2	1.0000	0.9663	0.9663
189.3	1.0000	0.9677	0.9677
189.4	1.0000	0.9691	0.9691
189.5	1.0000	0.9704	0.9704
189.6	1.0000	0.9717	0.9717
189.7	1.0000	0.9730	0.9730
189.8	1.0000	0.9741	0.9741
189.9	1.0000	0.9753	0.9753
190.0	1.0000	0.9764	0.9764
190.1	1.0000	0.9775	0.9775
190.2	1.0000	0.9785	0.9785
190.3	1.0000	0.9795	0.9795
190.4	1.0000	0.9804	0.9804
190.5	1.0000	0.9813	0.9813
190.6	1.0000	0.9822	0.9822
190.7	1.0000	0.9830	0.9830
190.8	1.0000	0.9838	0.9838
190.9	1.0000	0.9846	0.9846
191.0	1.0000	0.9853	0.9853
191.1	1.0000	0.9860	0.9860
191.2	1.0000	0.9867	0.9867
191.3	1.0000	0.9874	0.9874
191.4	1.0000	0.9880	0.9880
191.5	1.0000	0.9886	0.9886

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x	$A(x)$	P_{v1}	P_{v2}
191.6	1.0000	0.9891	0.9891
191.7	1.0000	0.9897	0.9897
191.8	1.0000	0.9902	0.9902
191.9	1.0000	0.9907	0.9907
192.0	1.0000	0.9912	0.9912
192.1	1.0000	0.9916	0.9916
192.2	1.0000	0.9921	0.9921
192.3	1.0000	0.9925	0.9925
192.4	1.0000	0.9929	0.9929
192.5	1.0000	0.9932	0.9932
192.6	1.0000	0.9936	0.9936
192.7	1.0000	0.9939	0.9939
192.8	1.0000	0.9943	0.9943
192.9	1.0000	0.9946	0.9946
193.0	1.0000	0.9949	0.9949
193.1	1.0000	0.9951	0.9951
193.2	1.0000	0.9954	0.9954
193.3	1.0000	0.9957	0.9957
193.4	1.0000	0.9959	0.9959
193.5	1.0000	0.9961	0.9961
193.6	1.0000	0.9963	0.9963
193.7	1.0000	0.9965	0.9965
193.8	1.0000	0.9967	0.9967
193.9	1.0000	0.9969	0.9969
194.0	1.0000	0.9971	0.9971
194.1	1.0000	0.9973	0.9973
194.2	1.0000	0.9974	0.9974
194.3	1.0000	0.9976	0.9976
194.4	1.0000	0.9977	0.9977
194.5	1.0000	0.9979	0.9979
194.6	1.0000	0.9980	0.9980
194.7	1.0000	0.9981	0.9981
194.8	1.0000	0.9982	0.9982
194.9	1.0000	0.9983	0.9983
195.0	1.0000	0.9984	0.9984
195.1	1.0000	0.9985	0.9985
195.2	1.0000	0.9986	0.9986
195.3	1.0000	0.9987	0.9987
195.4	1.0000	0.9988	0.9988
195.5	1.0000	0.9988	0.9988

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x	$A(x)$	P_{v1}	P_{v2}
195.6	1.0000	0.9989	0.9989
195.7	1.0000	0.9990	0.9990
195.8	1.0000	0.9990	0.9990
195.9	1.0000	0.9991	0.9991
196.0	1.0000	0.9992	0.9992
196.1	1.0000	0.9992	0.9992
196.2	1.0000	0.9993	0.9993
196.3	1.0000	0.9993	0.9993
196.4	1.0000	0.9994	0.9994
196.5	1.0000	0.9994	0.9994
196.6	1.0000	0.9994	0.9994
196.7	0.9983	0.9995	0.9995
196.8	1.0000	0.9995	0.9995
196.9	1.0000	0.9995	0.9995
197.0	1.0000	0.9996	0.9996
197.1	1.0000	0.9996	0.9996
197.2	1.0000	0.9996	0.9996
197.3	1.0000	0.9996	0.9996
197.4	1.0000	0.9997	0.9997
197.5	1.0000	0.9997	0.9997
197.6	1.0000	0.9997	0.9997
197.7	1.0000	0.9997	0.9997
197.8	1.0000	0.9997	0.9997
197.9	1.0000	0.9997	0.9997
198.0	1.0000	0.9998	0.9998
198.1	1.0000	0.9998	0.9998
198.2	1.0000	0.9998	0.9998
198.3	0.9984	0.9998	0.9998
198.4	1.0000	0.9998	0.9998
198.5	1.0000	0.9998	0.9998
198.6	1.0000	0.9998	0.9998
198.7	1.0000	0.9998	0.9998
198.8	1.0000	0.9998	0.9998
198.9	1.0000	0.9998	0.9998
199.0	1.0000	0.9998	0.9998
199.1	1.0000	0.9998	0.9998
199.2	0.9984	0.9998	0.9998
199.3	1.0000	0.9998	0.9998
199.4	1.0000	0.9998	0.9998
199.5	1.0000	0.9998	0.9998

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x	$A(x)$	P_{v1}	P_{v2}
199.6	1.0000	0.9998	0.9998
199.7	1.0000	0.9998	0.9998
199.8	1.0000	0.9998	0.9998
199.9	1.0000	0.9998	0.9998
200.0	1.0000	0.9998	0.9998
200.1	1.0000	0.9998	0.9998
200.2	1.0000	0.9998	0.9998
200.3	1.0000	0.9998	0.9998
200.4	1.0000	0.9998	0.9998
200.5	1.0000	0.9998	0.9998
200.6	1.0000	0.9998	0.9998
200.7	1.0000	0.9998	0.9998
200.8	0.9985	0.9998	0.9998
200.9	1.0000	0.9997	0.9997
201.0	1.0000	0.9997	0.9997
201.1	1.0000	0.9997	0.9997
201.2	1.0000	0.9997	0.9997
201.3	1.0000	0.9997	0.9997
201.4	1.0000	0.9996	0.9996
201.5	1.0000	0.9996	0.9996
201.6	1.0000	0.9996	0.9996
201.7	0.9985	0.9996	0.9996
201.8	1.0000	0.9995	0.9995
201.9	1.0000	0.9995	0.9995
202.0	1.0000	0.9995	0.9995
202.1	1.0000	0.9995	0.9995
202.2	1.0000	0.9994	0.9994
202.3	1.0000	0.9994	0.9994
202.4	1.0000	0.9993	0.9993
202.5	1.0000	0.9993	0.9993
202.6	1.0000	0.9992	0.9992
202.7	1.0000	0.9992	0.9992
202.8	1.0000	0.9991	0.9991
202.9	1.0000	0.9991	0.9991
203.0	1.0000	0.9990	0.9990
203.1	1.0000	0.9990	0.9990
203.2	1.0000	0.9989	0.9989
203.3	0.9986	0.9988	0.9988
203.4	1.0000	0.9988	0.9988
203.5	1.0000	0.9987	0.9987

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x	$A(x)$	P_{v1}	P_{v2}
203.6	1.0000	0.9986	0.9986
203.7	1.0000	0.9985	0.9985
203.8	1.0000	0.9984	0.9984
203.9	1.0000	0.9983	0.9983
204.0	1.0000	0.9982	0.9982
204.1	1.0000	0.9981	0.9981
204.2	0.9986	0.9980	0.9980
204.3	1.0000	0.9979	0.9979
204.4	1.0000	0.9977	0.9977
204.5	1.0000	0.9976	0.9976
204.6	1.0000	0.9975	0.9975
204.7	1.0000	0.9973	0.9973
204.8	1.0000	0.9972	0.9972
204.9	1.0000	0.9970	0.9970
205.0	1.0000	0.9968	0.9968
205.1	1.0000	0.9966	0.9966
205.2	1.0000	0.9964	0.9964
205.3	1.0000	0.9962	0.9962
205.4	1.0000	0.9960	0.9960
205.5	1.0000	0.9958	0.9958
205.6	1.0000	0.9956	0.9956
205.7	1.0000	0.9953	0.9953
205.8	0.9987	0.9951	0.9951
205.9	1.0000	0.9948	0.9948
206.0	1.0000	0.9945	0.9945
206.1	1.0000	0.9942	0.9942
206.2	1.0000	0.9939	0.9939
206.3	1.0000	0.9936	0.9936
206.4	1.0000	0.9932	0.9932
206.5	1.0000	0.9929	0.9929
206.6	1.0000	0.9925	0.9925
206.7	0.9987	0.9921	0.9921
206.8	1.0000	0.9917	0.9917
206.9	1.0000	0.9913	0.9913
207.0	1.0000	0.9908	0.9908
207.1	1.0000	0.9904	0.9904
207.2	1.0000	0.9899	0.9899
207.3	1.0000	0.9894	0.9894
207.4	1.0000	0.9888	0.9888
207.5	1.0000	0.9883	0.9883

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x	$A(x)$	P_{v1}	P_{v2}
207.6	1.0000	0.9877	0.9877
207.7	1.0000	0.9871	0.9871
207.8	1.0000	0.9865	0.9865
207.9	1.0000	0.9858	0.9858
208.0	1.0000	0.9851	0.9851
208.1	1.0000	0.9844	0.9844
208.2	1.0000	0.9837	0.9837
208.3	0.9994	0.9829	0.9829
208.4	1.0000	0.9821	0.9821
208.5	1.0000	0.9813	0.9813
208.6	1.0000	0.9804	0.9804
208.7	1.0000	0.9795	0.9795
208.8	1.0000	0.9786	0.9786
208.9	1.0000	0.9777	0.9777
209.0	1.0000	0.9767	0.9767
209.1	1.0000	0.9756	0.9756
209.2	0.9988	0.9745	0.9745
209.3	1.0000	0.9734	0.9734
209.4	1.0000	0.9723	0.9723
209.5	1.0000	0.9711	0.9711
209.6	1.0000	0.9699	0.9699
209.7	1.0000	0.9686	0.9686
209.8	1.0000	0.9673	0.9673
209.9	1.0000	0.9659	0.9659
210.0	1.0000	0.9645	0.9645
210.1	1.0000	0.9630	0.9630
210.2	1.0000	0.9615	0.9615
210.3	1.0000	0.9599	0.9599
210.4	1.0000	0.9583	0.9583
210.5	1.0000	0.9567	0.9567
210.6	1.0000	0.9550	0.9550
210.7	1.0000	0.9532	0.9532
210.8	0.9989	0.9514	0.9514
210.9	1.0000	0.9495	0.9495
211.0	1.0000	0.9476	0.9476
211.1	1.0000	0.9456	0.9456
211.2	1.0000	0.9435	0.9435
211.3	1.0000	0.9414	0.9414
211.4	1.0000	0.9392	0.9392
211.5	1.0000	0.9370	0.9370

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x	$A(x)$	P_{v1}	P_{v2}
211.6	1.0000	0.9347	0.9347
211.7	0.9985	0.9323	0.9323
211.8	1.0000	0.9299	0.9299
211.9	1.0000	0.9274	0.9274
212.0	1.0000	0.9248	0.9248
212.1	1.0000	0.9222	0.9222
212.2	1.0000	0.9195	0.9195
212.3	1.0000	0.9167	0.9167
212.4	1.0000	0.9139	0.9139
212.5	1.0000	0.9110	0.9110
212.6	1.0000	0.9080	0.9080
212.7	1.0000	0.9050	0.9050
212.8	1.0000	0.9018	0.9018
212.9	1.0000	0.8986	0.8986
213.0	1.0000	0.8953	0.8953
213.1	1.0000	0.8920	0.8920
213.2	1.0000	0.8886	0.8886
213.3	0.9989	0.8851	0.8851
213.4	1.0000	0.8815	0.8815
213.5	1.0000	0.8778	0.8778
213.6	1.0000	0.8741	0.8741
213.7	1.0000	0.8703	0.8703
213.8	1.0000	0.8664	0.8664
213.9	1.0000	0.8624	0.8624
214.0	1.0000	0.8584	0.8584
214.1	1.0000	0.8542	0.8542
214.2	0.9990	0.8500	0.8500
214.3	1.0000	0.8457	0.8457
214.4	1.0000	0.8414	0.8414
214.5	1.0000	0.8369	0.8369
214.6	1.0000	0.8324	0.8324
214.7	1.0000	0.8278	0.8278
214.8	1.0000	0.8231	0.8231
214.9	1.0000	0.8183	0.8183
215.0	1.0000	0.8135	0.8135
215.1	1.0000	0.8086	0.8086
215.2	1.0000	0.8036	0.8036
215.3	1.0000	0.7985	0.7985
215.4	1.0000	0.7934	0.7934
215.5	1.0000	0.7881	0.7881

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x	$A(x)$	P_{v1}	P_{v2}
215.6	1.0000	0.7828	0.7828
215.7	1.0000	0.7774	0.7774
215.8	0.9990	0.7720	0.7720
215.9	1.0000	0.7665	0.7665
216.0	1.0000	0.7609	0.7609
216.1	1.0000	0.7552	0.7552
216.2	1.0000	0.7495	0.7495
216.3	1.0000	0.7436	0.7436
216.4	1.0000	0.7378	0.7378
216.5	1.0000	0.7318	0.7318
216.6	1.0000	0.7258	0.7258
216.7	0.9990	0.7197	0.7197
216.8	1.0000	0.7136	0.7136
216.9	1.0000	0.7074	0.7074
217.0	1.0000	0.7011	0.7011
217.1	1.0000	0.6948	0.6948
217.2	1.0000	0.6884	0.6884
217.3	1.0000	0.6820	0.6820
217.4	1.0000	0.6755	0.6755
217.5	1.0000	0.6690	0.6690
217.6	1.0000	0.6624	0.6624
217.7	1.0000	0.6558	0.6558
217.8	1.0000	0.6491	0.6491
217.9	1.0000	0.6423	0.6423
218.0	1.0000	0.6356	0.6356
218.1	1.0000	0.6287	0.6287
218.2	1.0000	0.6219	0.6219
218.3	0.9991	0.6150	0.6150
218.4	1.0000	0.6081	0.6081
218.5	1.0000	0.6011	0.6011
218.6	1.0000	0.5941	0.5941
218.7	1.0000	0.5871	0.5871
218.8	1.0000	0.5801	0.5801
218.9	1.0000	0.5730	0.5730
219.0	1.0000	0.5659	0.5659
219.1	1.0000	0.5588	0.5588
219.2	0.9991	0.5517	0.5517
219.3	1.0000	0.5445	0.5445
219.4	0.9999	0.5373	0.5373
219.5	0.9988	0.5302	0.5302

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x	$A(x)$	P_{v1}	P_{v2}
219.6	0.9924	0.5230	0.5230
219.7	0.9655	0.5158	0.5158
219.8	0.8906	0.5086	0.5086
219.9	0.7277	0.5014	0.5014
220.0	0.4998	0.4942	0.4942
220.1	0.2720	0.4871	0.4871
220.2	0.1126	0.4799	0.4799
220.3	0.0350	0.4727	0.4727
220.4	0.0078	0.4656	0.4656
220.5	0.0013	0.4584	0.4584
220.6	0.0001	0.4513	0.4513
220.7	0.0000	0.4442	0.4442
220.8	0.0000	0.4371	0.4371
220.9	0.0000	0.4300	0.4300
221.0	0.0000	0.4229	0.4229
221.1	0.0000	0.4159	0.4159
221.2	0.0000	0.4089	0.4089
221.3	0.0000	0.4019	0.4019
221.4	0.0000	0.3950	0.3950
221.5	0.0000	0.3881	0.3881
221.6	0.0000	0.3812	0.3812
221.7	0.0000	0.3744	0.3744
221.8	0.0000	0.3676	0.3676
221.9	0.0000	0.3609	0.3609
222.0	0.0000	0.3542	0.3542
222.1	0.0000	0.3475	0.3475
222.2	0.0000	0.3409	0.3409
222.3	0.0000	0.3344	0.3344
222.4	0.0000	0.3279	0.3279
222.5	0.0000	0.3214	0.3214
222.6	0.0000	0.3150	0.3150
222.7	0.0000	0.3087	0.3087
222.8	0.0000	0.3024	0.3024
222.9	0.0000	0.2962	0.2962
223.0	0.0000	0.2900	0.2900
223.1	0.0000	0.2839	0.2839
223.2	0.0000	0.2779	0.2779
223.3	0.0000	0.2719	0.2719
223.4	0.0000	0.2660	0.2660
223.5	0.0000	0.2602	0.2602

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x	$A(x)$	P_{v1}	P_{v2}
223.6	0.0000	0.2544	0.2544
223.7	0.0000	0.2487	0.2487
223.8	0.0000	0.2430	0.2430
223.9	0.0000	0.2375	0.2375
224.0	0.0000	0.2320	0.2320
224.1	0.0000	0.2266	0.2266
224.2	0.0000	0.2212	0.2212
224.3	0.0000	0.2160	0.2160
224.4	0.0000	0.2108	0.2108
224.5	0.0000	0.2056	0.2056
224.6	0.0000	0.2006	0.2006
224.7	0.0000	0.1956	0.1956
224.8	0.0000	0.1907	0.1907
224.9	0.0000	0.1859	0.1859
225.0	0.0000	0.1812	0.1812
225.1	0.0000	0.1765	0.1765
225.2	0.0000	0.1719	0.1719
225.3	0.0000	0.1674	0.1674
225.4	0.0000	0.1630	0.1630
225.5	0.0000	0.1586	0.1586
225.6	0.0000	0.1544	0.1544
225.7	0.0000	0.1502	0.1502
225.8	0.0000	0.1460	0.1460
225.9	0.0000	0.1420	0.1420
226.0	0.0000	0.1380	0.1380
226.1	0.0000	0.1342	0.1342
226.2	0.0000	0.1303	0.1303
226.3	0.0000	0.1266	0.1266
226.4	0.0000	0.1229	0.1229
226.5	0.0000	0.1194	0.1194
226.6	0.0000	0.1159	0.1159
226.7	0.0000	0.1124	0.1124
226.8	0.0000	0.1091	0.1091
226.9	0.0000	0.1058	0.1058
227.0	0.0000	0.1026	0.1026
227.1	0.0000	0.0994	0.0994
227.2	0.0000	0.0963	0.0963
227.3	0.0000	0.0933	0.0933
227.4	0.0000	0.0904	0.0904
227.5	0.0000	0.0876	0.0876

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x	$A(x)$	P_{v1}	P_{v2}
227.6	0.0000	0.0848	0.0848
227.7	0.0000	0.0820	0.0820
227.8	0.0000	0.0794	0.0794
227.9	0.0000	0.0768	0.0768
228.0	0.0000	0.0743	0.0743
228.1	0.0000	0.0718	0.0718
228.2	0.0000	0.0694	0.0694
228.3	0.0000	0.0671	0.0671
228.4	0.0000	0.0648	0.0648
228.5	0.0000	0.0626	0.0626
228.6	0.0000	0.0604	0.0604
228.7	0.0000	0.0583	0.0583
228.8	0.0000	0.0563	0.0563
228.9	0.0000	0.0543	0.0543
229.0	0.0000	0.0524	0.0524
229.1	0.0000	0.0505	0.0505
229.2	0.0000	0.0487	0.0487
229.3	0.0000	0.0470	0.0470
229.4	0.0000	0.0453	0.0453
229.5	0.0000	0.0436	0.0436
229.6	0.0000	0.0420	0.0420
229.7	0.0000	0.0404	0.0404
229.8	0.0000	0.0389	0.0389
229.9	0.0000	0.0374	0.0374
230.0	0.0000	0.0360	0.0360
230.1	0.0000	0.0346	0.0346
230.2	0.0000	0.0333	0.0333
230.3	0.0000	0.0320	0.0320
230.4	0.0000	0.0308	0.0308
230.5	0.0000	0.0296	0.0296
230.6	0.0000	0.0284	0.0284
230.7	0.0000	0.0273	0.0273
230.8	0.0000	0.0262	0.0262
230.9	0.0000	0.0251	0.0251
231.0	0.0000	0.0241	0.0241
231.1	0.0000	0.0231	0.0231
231.2	0.0000	0.0222	0.0222
231.3	0.0000	0.0213	0.0213
231.4	0.0000	0.0204	0.0204
231.5	0.0000	0.0195	0.0195

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x	$A(x)$	P_{v1}	P_{v2}
231.6	0.0000	0.0187	0.0187
231.7	0.0000	0.0179	0.0179
231.8	0.0000	0.0172	0.0172
231.9	0.0000	0.0164	0.0164
232.0	0.0000	0.0157	0.0157
232.1	0.0000	0.0150	0.0150
232.2	0.0000	0.0144	0.0144
232.3	0.0000	0.0137	0.0137
232.4	0.0000	0.0131	0.0131
232.5	0.0000	0.0126	0.0126
232.6	0.0000	0.0120	0.0120
232.7	0.0000	0.0115	0.0115
232.8	0.0000	0.0109	0.0109
232.9	0.0000	0.0104	0.0104
233.0	0.0000	0.0100	0.0100
233.1	0.0000	0.0095	0.0095
233.2	0.0000	0.0091	0.0091
233.3	0.0000	0.0086	0.0086
233.4	0.0000	0.0082	0.0082
233.5	0.0000	0.0079	0.0079
233.6	0.0000	0.0075	0.0075
233.7	0.0000	0.0071	0.0071
233.8	0.0000	0.0068	0.0068
233.9	0.0000	0.0065	0.0065
234.0	0.0000	0.0062	0.0062
234.1	0.0000	0.0059	0.0059
234.2	0.0000	0.0056	0.0056
234.3	0.0000	0.0053	0.0053
234.4	0.0000	0.0050	0.0050
234.5	0.0000	0.0048	0.0048
234.6	0.0000	0.0045	0.0045
234.7	0.0000	0.0043	0.0043
234.8	0.0000	0.0041	0.0041
234.9	0.0000	0.0039	0.0039
235.0	0.0000	0.0037	0.0037
235.1	0.0000	0.0035	0.0035
235.2	0.0000	0.0033	0.0033
235.3	0.0000	0.0032	0.0032
235.4	0.0000	0.0030	0.0030
235.5	0.0000	0.0028	0.0028

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x	$A(x)$	P_{v1}	P_{v2}
235.6	0.0000	0.0027	0.0027
235.7	0.0000	0.0025	0.0025
235.8	0.0000	0.0024	0.0024
235.9	0.0000	0.0023	0.0023
236.0	0.0000	0.0022	0.0022
236.1	0.0000	0.0020	0.0020
236.2	0.0000	0.0019	0.0019
236.3	0.0000	0.0018	0.0018
236.4	0.0000	0.0017	0.0017
236.5	0.0000	0.0016	0.0016
236.6	0.0000	0.0015	0.0015
236.7	0.0000	0.0015	0.0015
236.8	0.0000	0.0014	0.0014
236.9	0.0000	0.0013	0.0013
237.0	0.0000	0.0012	0.0012
237.1	0.0000	0.0012	0.0012
237.2	0.0000	0.0011	0.0011
237.3	0.0000	0.0010	0.0010
237.4	0.0000	0.0010	0.0010
237.5	0.0000	0.0009	0.0009
237.6	0.0000	0.0009	0.0009
237.7	0.0000	0.0008	0.0008
237.8	0.0000	0.0008	0.0008
237.9	0.0000	0.0007	0.0007
238.0	0.0000	0.0007	0.0007
238.1	0.0000	0.0006	0.0006
238.2	0.0000	0.0006	0.0006
238.3	0.0000	0.0006	0.0006
238.4	0.0000	0.0005	0.0005
238.5	0.0000	0.0005	0.0005
238.6	0.0000	0.0005	0.0005
238.7	0.0000	0.0004	0.0004
238.8	0.0000	0.0004	0.0004
238.9	0.0000	0.0004	0.0004
239.0	0.0000	0.0004	0.0004
239.1	0.0000	0.0003	0.0003
239.2	0.0000	0.0003	0.0003
239.3	0.0000	0.0003	0.0003
239.4	0.0000	0.0003	0.0003
239.5	0.0000	0.0003	0.0003

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x	$A(x)$	P_{v1}	P_{v2}
239.6	0.0000	0.0003	0.0003
239.7	0.0000	0.0002	0.0002
239.8	0.0000	0.0002	0.0002
239.9	0.0000	0.0002	0.0002
240.0	0.0000	0.0002	0.0002
240.1	0.0000	0.0002	0.0002
240.2	0.0000	0.0002	0.0002
240.3	0.0000	0.0002	0.0002
240.4	0.0000	0.0001	0.0001
240.5	0.0000	0.0001	0.0001
240.6	0.0000	0.0001	0.0001
240.7	0.0000	0.0001	0.0001
240.8	0.0000	0.0001	0.0001
240.9	0.0000	0.0001	0.0001
241.0	0.0000	0.0001	0.0001
241.1	0.0000	0.0001	0.0001
241.2	0.0000	0.0001	0.0001
241.3	0.0000	0.0001	0.0001
241.4	0.0000	0.0001	0.0001
241.5	0.0000	0.0001	0.0001
241.6	0.0000	0.0001	0.0001
241.7	0.0000	0.0001	0.0001
241.8	0.0000	0.0001	0.0001
241.9	0.0000	0.0001	0.0001
242.0	0.0000	0.0000	0.0000
242.1	0.0000	0.0000	0.0000
242.2	0.0000	0.0000	0.0000
242.3	0.0000	0.0000	0.0000
242.4	0.0000	0.0000	0.0000
242.5	0.0000	0.0000	0.0000
242.6	0.0000	0.0000	0.0000
242.7	0.0000	0.0000	0.0000
242.8	0.0000	0.0000	0.0000
242.9	0.0000	0.0000	0.0000
243.0	0.0000	0.0000	0.0000
243.1	0.0000	0.0000	0.0000
243.2	0.0000	0.0000	0.0000
243.3	0.0000	0.0000	0.0000
243.4	0.0000	0.0000	0.0000
243.5	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
243.6	0.0000	0.0000	0.0000
243.7	0.0000	0.0000	0.0000
243.8	0.0000	0.0000	0.0000
243.9	0.0000	0.0000	0.0000
244.0	0.0000	0.0000	0.0000
244.1	0.0000	0.0000	0.0000
244.2	0.0000	0.0000	0.0000
244.3	0.0000	0.0000	0.0000
244.4	0.0000	0.0000	0.0000
244.5	0.0000	0.0000	0.0000
244.6	0.0000	0.0000	0.0000
244.7	0.0000	0.0000	0.0000
244.8	0.0000	0.0000	0.0000
244.9	0.0000	0.0000	0.0000
245.0	0.0000	0.0000	0.0000
245.1	0.0000	0.0000	0.0000
245.2	0.0000	0.0000	0.0000
245.3	0.0000	0.0000	0.0000
245.4	0.0000	0.0000	0.0000
245.5	0.0000	0.0000	0.0000
245.6	0.0000	0.0000	0.0000
245.7	0.0000	0.0000	0.0000
245.8	0.0000	0.0000	0.0000
245.9	0.0000	0.0000	0.0000
246.0	0.0000	0.0000	0.0000
246.1	0.0000	0.0000	0.0000
246.2	0.0000	0.0000	0.0000
246.3	0.0000	0.0000	0.0000
246.4	0.0000	0.0000	0.0000
246.5	0.0000	0.0000	0.0000
246.6	0.0000	0.0000	0.0000
246.7	0.0000	0.0000	0.0000
246.8	0.0000	0.0000	0.0000
246.9	0.0000	0.0000	0.0000
247.0	0.0000	0.0000	0.0000
247.1	0.0000	0.0000	0.0000
247.2	0.0000	0.0000	0.0000
247.3	0.0000	0.0000	0.0000
247.4	0.0000	0.0000	0.0000
247.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
247.6	0.0000	0.0000	0.0000
247.7	0.0000	0.0000	0.0000
247.8	0.0000	0.0000	0.0000
247.9	0.0000	0.0000	0.0000
248.0	0.0000	0.0000	0.0000
248.1	0.0000	0.0000	0.0000
248.2	0.0000	0.0000	0.0000
248.3	0.0000	0.0000	0.0000
248.4	0.0000	0.0000	0.0000
248.5	0.0000	0.0000	0.0000
248.6	0.0000	0.0000	0.0000
248.7	0.0000	0.0000	0.0000
248.8	0.0000	0.0000	0.0000
248.9	0.0000	0.0000	0.0000
249.0	0.0000	0.0000	0.0000
249.1	0.0000	0.0000	0.0000
249.2	0.0000	0.0000	0.0000
249.3	0.0000	0.0000	0.0000
249.4	0.0000	0.0000	0.0000
249.5	0.0000	0.0000	0.0000
249.6	0.0000	0.0000	0.0000
249.7	0.0000	0.0000	0.0000
249.8	0.0000	0.0000	0.0000
249.9	0.0000	0.0000	0.0000
250.0	0.0000	0.0000	0.0000
250.1	0.0000	0.0000	0.0000
250.2	0.0000	0.0000	0.0000
250.3	0.0000	0.0000	0.0000
250.4	0.0000	0.0000	0.0000
250.5	0.0000	0.0000	0.0000
250.6	0.0000	0.0000	0.0000
250.7	0.0000	0.0000	0.0000
250.8	0.0000	0.0000	0.0000
250.9	0.0000	0.0000	0.0000
251.0	0.0000	0.0000	0.0000
251.1	0.0000	0.0000	0.0000
251.2	0.0000	0.0000	0.0000
251.3	0.0000	0.0000	0.0000
251.4	0.0000	0.0000	0.0000
251.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
251.6	0.0000	0.0000	0.0000
251.7	0.0000	0.0000	0.0000
251.8	0.0000	0.0000	0.0000
251.9	0.0000	0.0000	0.0000
252.0	0.0000	0.0000	0.0000
252.1	0.0000	0.0000	0.0000
252.2	0.0000	0.0000	0.0000
252.3	0.0000	0.0000	0.0000
252.4	0.0000	0.0000	0.0000
252.5	0.0000	0.0000	0.0000
252.6	0.0000	0.0000	0.0000
252.7	0.0000	0.0000	0.0000
252.8	0.0000	0.0000	0.0000
252.9	0.0000	0.0000	0.0000
253.0	0.0000	0.0000	0.0000
253.1	0.0000	0.0000	0.0000
253.2	0.0000	0.0000	0.0000
253.3	0.0000	0.0000	0.0000
253.4	0.0000	0.0000	0.0000
253.5	0.0000	0.0000	0.0000
253.6	0.0000	0.0000	0.0000
253.7	0.0000	0.0000	0.0000
253.8	0.0000	0.0000	0.0000
253.9	0.0000	0.0000	0.0000
254.0	0.0000	0.0000	0.0000
254.1	0.0000	0.0000	0.0000
254.2	0.0000	0.0000	0.0000
254.3	0.0000	0.0000	0.0000
254.4	0.0000	0.0000	0.0000
254.5	0.0000	0.0000	0.0000
254.6	0.0000	0.0000	0.0000
254.7	0.0000	0.0000	0.0000
254.8	0.0000	0.0000	0.0000
254.9	0.0000	0.0000	0.0000
255.0	0.0000	0.0000	0.0000
255.1	0.0000	0.0000	0.0000
255.2	0.0000	0.0000	0.0000
255.3	0.0000	0.0000	0.0000
255.4	0.0000	0.0000	0.0000
255.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
255.6	0.0000	0.0000	0.0000
255.7	0.0000	0.0000	0.0000
255.8	0.0000	0.0000	0.0000
255.9	0.0000	0.0000	0.0000
256.0	0.0000	0.0000	0.0000
256.1	0.0000	0.0000	0.0000
256.2	0.0000	0.0000	0.0000
256.3	0.0000	0.0000	0.0000
256.4	0.0000	0.0000	0.0000
256.5	0.0000	0.0000	0.0000
256.6	0.0000	0.0000	0.0000
256.7	0.0000	0.0000	0.0000
256.8	0.0000	0.0000	0.0000
256.9	0.0000	0.0000	0.0000
257.0	0.0000	0.0000	0.0000
257.1	0.0000	0.0000	0.0000
257.2	0.0000	0.0000	0.0000
257.3	0.0000	0.0000	0.0000
257.4	0.0000	0.0000	0.0000
257.5	0.0000	0.0000	0.0000
257.6	0.0000	0.0000	0.0000
257.7	0.0000	0.0000	0.0000
257.8	0.0000	0.0000	0.0000
257.9	0.0000	0.0000	0.0000
258.0	0.0000	0.0000	0.0000
258.1	0.0000	0.0000	0.0000
258.2	0.0000	0.0000	0.0000
258.3	0.0000	0.0000	0.0000
258.4	0.0000	0.0000	0.0000
258.5	0.0000	0.0000	0.0000
258.6	0.0000	0.0000	0.0000
258.7	0.0000	0.0000	0.0000
258.8	0.0000	0.0000	0.0000
258.9	0.0000	0.0000	0.0000
259.0	0.0000	0.0000	0.0000
259.1	0.0000	0.0000	0.0000
259.2	0.0000	0.0000	0.0000
259.3	0.0000	0.0000	0.0000
259.4	0.0000	0.0000	0.0000
259.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
259.6	0.0000	0.0000	0.0000
259.7	0.0000	0.0000	0.0000
259.8	0.0000	0.0000	0.0000
259.9	0.0000	0.0000	0.0000
260.0	0.0000	0.0000	0.0000
260.1	0.0000	0.0000	0.0000
260.2	0.0000	0.0000	0.0000
260.3	0.0000	0.0000	0.0000
260.4	0.0000	0.0000	0.0000
260.5	0.0000	0.0000	0.0000
260.6	0.0000	0.0000	0.0000
260.7	0.0000	0.0000	0.0000
260.8	0.0000	0.0000	0.0000
260.9	0.0000	0.0000	0.0000
261.0	0.0000	0.0000	0.0000
261.1	0.0000	0.0000	0.0000
261.2	0.0000	0.0000	0.0000
261.3	0.0000	0.0000	0.0000
261.4	0.0000	0.0000	0.0000
261.5	0.0000	0.0000	0.0000
261.6	0.0000	0.0000	0.0000
261.7	0.0000	0.0000	0.0000
261.8	0.0000	0.0000	0.0000
261.9	0.0000	0.0000	0.0000
262.0	0.0000	0.0000	0.0000
262.1	0.0000	0.0000	0.0000
262.2	0.0000	0.0000	0.0000
262.3	0.0000	0.0000	0.0000
262.4	0.0000	0.0000	0.0000
262.5	0.0000	0.0000	0.0000
262.6	0.0000	0.0000	0.0000
262.7	0.0000	0.0000	0.0000
262.8	0.0000	0.0000	0.0000
262.9	0.0000	0.0000	0.0000
263.0	0.0000	0.0000	0.0000
263.1	0.0000	0.0000	0.0000
263.2	0.0000	0.0000	0.0000
263.3	0.0000	0.0000	0.0000
263.4	0.0000	0.0000	0.0000
263.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
263.6	0.0000	0.0000	0.0000
263.7	0.0000	0.0000	0.0000
263.8	0.0000	0.0000	0.0000
263.9	0.0000	0.0000	0.0000
264.0	0.0000	0.0000	0.0000
264.1	0.0000	0.0000	0.0000
264.2	0.0000	0.0000	0.0000
264.3	0.0000	0.0000	0.0000
264.4	0.0000	0.0000	0.0000
264.5	0.0000	0.0000	0.0000
264.6	0.0000	0.0000	0.0000
264.7	0.0000	0.0000	0.0000
264.8	0.0000	0.0000	0.0000
264.9	0.0000	0.0000	0.0000
265.0	0.0000	0.0000	0.0000
265.1	0.0000	0.0000	0.0000
265.2	0.0000	0.0000	0.0000
265.3	0.0000	0.0000	0.0000
265.4	0.0000	0.0000	0.0000
265.5	0.0000	0.0000	0.0000
265.6	0.0000	0.0000	0.0000
265.7	0.0000	0.0000	0.0000
265.8	0.0000	0.0000	0.0000
265.9	0.0000	0.0000	0.0000
266.0	0.0000	0.0000	0.0000
266.1	0.0000	0.0000	0.0000
266.2	0.0000	0.0000	0.0000
266.3	0.0000	0.0000	0.0000
266.4	0.0000	0.0000	0.0000
266.5	0.0000	0.0000	0.0000
266.6	0.0000	0.0000	0.0000
266.7	0.0000	0.0000	0.0000
266.8	0.0000	0.0000	0.0000
266.9	0.0000	0.0000	0.0000
267.0	0.0000	0.0000	0.0000
267.1	0.0000	0.0000	0.0000
267.2	0.0000	0.0000	0.0000
267.3	0.0000	0.0000	0.0000
267.4	0.0000	0.0000	0.0000
267.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
267.6	0.0000	0.0000	0.0000
267.7	0.0000	0.0000	0.0000
267.8	0.0000	0.0000	0.0000
267.9	0.0000	0.0000	0.0000
268.0	0.0000	0.0000	0.0000
268.1	0.0000	0.0000	0.0000
268.2	0.0000	0.0000	0.0000
268.3	0.0000	0.0000	0.0000
268.4	0.0000	0.0000	0.0000
268.5	0.0000	0.0000	0.0000
268.6	0.0000	0.0000	0.0000
268.7	0.0000	0.0000	0.0000
268.8	0.0000	0.0000	0.0000
268.9	0.0000	0.0000	0.0000
269.0	0.0000	0.0000	0.0000
269.1	0.0000	0.0000	0.0000
269.2	0.0000	0.0000	0.0000
269.3	0.0000	0.0000	0.0000
269.4	0.0000	0.0000	0.0000
269.5	0.0000	0.0000	0.0000
269.6	0.0000	0.0000	0.0000
269.7	0.0000	0.0000	0.0000
269.8	0.0000	0.0000	0.0000
269.9	0.0000	0.0000	0.0000
270.0	0.0000	0.0000	0.0000
270.1	0.0000	0.0000	0.0000
270.2	0.0000	0.0000	0.0000
270.3	0.0000	0.0000	0.0000
270.4	0.0000	0.0000	0.0000
270.5	0.0000	0.0000	0.0000
270.6	0.0000	0.0000	0.0000
270.7	0.0000	0.0000	0.0000
270.8	0.0000	0.0000	0.0000
270.9	0.0000	0.0000	0.0000
271.0	0.0000	0.0000	0.0000
271.1	0.0000	0.0000	0.0000
271.2	0.0000	0.0000	0.0000
271.3	0.0000	0.0000	0.0000
271.4	0.0000	0.0000	0.0000
271.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
271.6	0.0000	0.0000	0.0000
271.7	0.0000	0.0000	0.0000
271.8	0.0000	0.0000	0.0000
271.9	0.0000	0.0000	0.0000
272.0	0.0000	0.0000	0.0000
272.1	0.0000	0.0000	0.0000
272.2	0.0000	0.0000	0.0000
272.3	0.0000	0.0000	0.0000
272.4	0.0000	0.0000	0.0000
272.5	0.0000	0.0000	0.0000
272.6	0.0000	0.0000	0.0000
272.7	0.0000	0.0000	0.0000
272.8	0.0000	0.0000	0.0000
272.9	0.0000	0.0000	0.0000
273.0	0.0000	0.0000	0.0000
273.1	0.0000	0.0000	0.0000
273.2	0.0000	0.0000	0.0000
273.3	0.0000	0.0000	0.0000
273.4	0.0000	0.0000	0.0000
273.5	0.0000	0.0000	0.0000
273.6	0.0000	0.0000	0.0000
273.7	0.0000	0.0000	0.0000
273.8	0.0000	0.0000	0.0000
273.9	0.0000	0.0000	0.0000
274.0	0.0000	0.0000	0.0000
274.1	0.0000	0.0000	0.0000
274.2	0.0000	0.0000	0.0000
274.3	0.0000	0.0000	0.0000
274.4	0.0000	0.0000	0.0000
274.5	0.0000	0.0000	0.0000
274.6	0.0000	0.0000	0.0000
274.7	0.0000	0.0000	0.0000
274.8	0.0000	0.0000	0.0000
274.9	0.0000	0.0000	0.0000
275.0	0.0000	0.0000	0.0000
275.1	0.0000	0.0000	0.0000
275.2	0.0000	0.0000	0.0000
275.3	0.0000	0.0000	0.0000
275.4	0.0000	0.0000	0.0000
275.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
275.6	0.0000	0.0000	0.0000
275.7	0.0000	0.0000	0.0000
275.8	0.0000	0.0000	0.0000
275.9	0.0000	0.0000	0.0000
276.0	0.0000	0.0000	0.0000
276.1	0.0000	0.0000	0.0000
276.2	0.0000	0.0000	0.0000
276.3	0.0000	0.0000	0.0000
276.4	0.0000	0.0000	0.0000
276.5	0.0000	0.0000	0.0000
276.6	0.0000	0.0000	0.0000
276.7	0.0000	0.0000	0.0000
276.8	0.0000	0.0000	0.0000
276.9	0.0000	0.0000	0.0000
277.0	0.0000	0.0000	0.0000
277.1	0.0000	0.0000	0.0000
277.2	0.0000	0.0000	0.0000
277.3	0.0000	0.0000	0.0000
277.4	0.0000	0.0000	0.0000
277.5	0.0000	0.0000	0.0000
277.6	0.0000	0.0000	0.0000
277.7	0.0000	0.0000	0.0000
277.8	0.0000	0.0000	0.0000
277.9	0.0000	0.0000	0.0000
278.0	0.0000	0.0000	0.0000
278.1	0.0000	0.0000	0.0000
278.2	0.0000	0.0000	0.0000
278.3	0.0000	0.0000	0.0000
278.4	0.0000	0.0000	0.0000
278.5	0.0000	0.0000	0.0000
278.6	0.0000	0.0000	0.0000
278.7	0.0000	0.0000	0.0000
278.8	0.0000	0.0000	0.0000
278.9	0.0000	0.0000	0.0000
279.0	0.0000	0.0000	0.0000
279.1	0.0000	0.0000	0.0000
279.2	0.0000	0.0000	0.0000
279.3	0.0000	0.0000	0.0000
279.4	0.0000	0.0000	0.0000
279.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
279.6	0.0000	0.0000	0.0000
279.7	0.0000	0.0000	0.0000
279.8	0.0000	0.0000	0.0000
279.9	0.0000	0.0000	0.0000
280.0	0.0000	0.0000	0.0000
280.1	0.0000	0.0000	0.0000
280.2	0.0000	0.0000	0.0000
280.3	0.0000	0.0000	0.0000
280.4	0.0000	0.0000	0.0000
280.5	0.0000	0.0000	0.0000
280.6	0.0000	0.0000	0.0000
280.7	0.0000	0.0000	0.0000
280.8	0.0000	0.0000	0.0000
280.9	0.0000	0.0000	0.0000
281.0	0.0000	0.0000	0.0000
281.1	0.0000	0.0000	0.0000
281.2	0.0000	0.0000	0.0000
281.3	0.0000	0.0000	0.0000
281.4	0.0000	0.0000	0.0000
281.5	0.0000	0.0000	0.0000
281.6	0.0000	0.0000	0.0000
281.7	0.0000	0.0000	0.0000
281.8	0.0000	0.0000	0.0000
281.9	0.0000	0.0000	0.0000
282.0	0.0000	0.0000	0.0000
282.1	0.0000	0.0000	0.0000
282.2	0.0000	0.0000	0.0000
282.3	0.0000	0.0000	0.0000
282.4	0.0000	0.0000	0.0000
282.5	0.0000	0.0000	0.0000
282.6	0.0000	0.0000	0.0000
282.7	0.0000	0.0000	0.0000
282.8	0.0000	0.0000	0.0000
282.9	0.0000	0.0000	0.0000
283.0	0.0000	0.0000	0.0000
283.1	0.0000	0.0000	0.0000
283.2	0.0000	0.0000	0.0000
283.3	0.0000	0.0000	0.0000
283.4	0.0000	0.0000	0.0000
283.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
283.6	0.0000	0.0000	0.0000
283.7	0.0000	0.0000	0.0000
283.8	0.0000	0.0000	0.0000
283.9	0.0000	0.0000	0.0000
284.0	0.0000	0.0000	0.0000
284.1	0.0000	0.0000	0.0000
284.2	0.0000	0.0000	0.0000
284.3	0.0000	0.0000	0.0000
284.4	0.0000	0.0000	0.0000
284.5	0.0000	0.0000	0.0000
284.6	0.0000	0.0000	0.0000
284.7	0.0000	0.0000	0.0000
284.8	0.0000	0.0000	0.0000
284.9	0.0000	0.0000	0.0000
285.0	0.0000	0.0000	0.0000
285.1	0.0000	0.0000	0.0000
285.2	0.0000	0.0000	0.0000
285.3	0.0000	0.0000	0.0000
285.4	0.0000	0.0000	0.0000
285.5	0.0000	0.0000	0.0000
285.6	0.0000	0.0000	0.0000
285.7	0.0000	0.0000	0.0000
285.8	0.0000	0.0000	0.0000
285.9	0.0000	0.0000	0.0000
286.0	0.0000	0.0000	0.0000
286.1	0.0000	0.0000	0.0000
286.2	0.0000	0.0000	0.0000
286.3	0.0000	0.0000	0.0000
286.4	0.0000	0.0000	0.0000
286.5	0.0000	0.0000	0.0000
286.6	0.0000	0.0000	0.0000
286.7	0.0000	0.0000	0.0000
286.8	0.0000	0.0000	0.0000
286.9	0.0000	0.0000	0.0000
287.0	0.0000	0.0000	0.0000
287.1	0.0000	0.0000	0.0000
287.2	0.0000	0.0000	0.0000
287.3	0.0000	0.0000	0.0000
287.4	0.0000	0.0000	0.0000
287.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
287.6	0.0000	0.0000	0.0000
287.7	0.0000	0.0000	0.0000
287.8	0.0000	0.0000	0.0000
287.9	0.0000	0.0000	0.0000
288.0	0.0000	0.0000	0.0000
288.1	0.0000	0.0000	0.0000
288.2	0.0000	0.0000	0.0000
288.3	0.0000	0.0000	0.0000
288.4	0.0000	0.0000	0.0000
288.5	0.0000	0.0000	0.0000
288.6	0.0000	0.0000	0.0000
288.7	0.0000	0.0000	0.0000
288.8	0.0000	0.0000	0.0000
288.9	0.0000	0.0000	0.0000
289.0	0.0000	0.0000	0.0000
289.1	0.0000	0.0000	0.0000
289.2	0.0000	0.0000	0.0000
289.3	0.0000	0.0000	0.0000
289.4	0.0000	0.0000	0.0000
289.5	0.0000	0.0000	0.0000
289.6	0.0000	0.0000	0.0000
289.7	0.0000	0.0000	0.0000
289.8	0.0000	0.0000	0.0000
289.9	0.0000	0.0000	0.0000
290.0	0.0000	0.0000	0.0000
290.1	0.0000	0.0000	0.0000
290.2	0.0000	0.0000	0.0000
290.3	0.0000	0.0000	0.0000
290.4	0.0000	0.0000	0.0000
290.5	0.0000	0.0000	0.0000
290.6	0.0000	0.0000	0.0000
290.7	0.0000	0.0000	0.0000
290.8	0.0000	0.0000	0.0000
290.9	0.0000	0.0000	0.0000
291.0	0.0000	0.0000	0.0000
291.1	0.0000	0.0000	0.0000
291.2	0.0000	0.0000	0.0000
291.3	0.0000	0.0000	0.0000
291.4	0.0000	0.0000	0.0000
291.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
291.6	0.0000	0.0000	0.0000
291.7	0.0000	0.0000	0.0000
291.8	0.0000	0.0000	0.0000
291.9	0.0000	0.0000	0.0000
292.0	0.0000	0.0000	0.0000
292.1	0.0000	0.0000	0.0000
292.2	0.0000	0.0000	0.0000
292.3	0.0000	0.0000	0.0000
292.4	0.0000	0.0000	0.0000
292.5	0.0000	0.0000	0.0000
292.6	0.0000	0.0000	0.0000
292.7	0.0000	0.0000	0.0000
292.8	0.0000	0.0000	0.0000
292.9	0.0000	0.0000	0.0000
293.0	0.0000	0.0000	0.0000
293.1	0.0000	0.0000	0.0000
293.2	0.0000	0.0000	0.0000
293.3	0.0000	0.0000	0.0000
293.4	0.0000	0.0000	0.0000
293.5	0.0000	0.0000	0.0000
293.6	0.0000	0.0000	0.0000
293.7	0.0000	0.0000	0.0000
293.8	0.0000	0.0000	0.0000
293.9	0.0000	0.0000	0.0000
294.0	0.0000	0.0000	0.0000
294.1	0.0000	0.0000	0.0000
294.2	0.0000	0.0000	0.0000
294.3	0.0000	0.0000	0.0000
294.4	0.0000	0.0000	0.0000
294.5	0.0000	0.0000	0.0000
294.6	0.0000	0.0000	0.0000
294.7	0.0000	0.0000	0.0000
294.8	0.0000	0.0000	0.0000
294.9	0.0000	0.0000	0.0000
295.0	0.0000	0.0000	0.0000
295.1	0.0000	0.0000	0.0000
295.2	0.0000	0.0000	0.0000
295.3	0.0000	0.0000	0.0000
295.4	0.0000	0.0000	0.0000
295.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
295.6	0.0000	0.0000	0.0000
295.7	0.0000	0.0000	0.0000
295.8	0.0000	0.0000	0.0000
295.9	0.0000	0.0000	0.0000
296.0	0.0000	0.0000	0.0000
296.1	0.0000	0.0000	0.0000
296.2	0.0000	0.0000	0.0000
296.3	0.0000	0.0000	0.0000
296.4	0.0000	0.0000	0.0000
296.5	0.0000	0.0000	0.0000
296.6	0.0000	0.0000	0.0000
296.7	0.0000	0.0000	0.0000
296.8	0.0000	0.0000	0.0000
296.9	0.0000	0.0000	0.0000
297.0	0.0000	0.0000	0.0000
297.1	0.0000	0.0000	0.0000
297.2	0.0000	0.0000	0.0000
297.3	0.0000	0.0000	0.0000
297.4	0.0000	0.0000	0.0000
297.5	0.0000	0.0000	0.0000
297.6	0.0000	0.0000	0.0000
297.7	0.0000	0.0000	0.0000
297.8	0.0000	0.0000	0.0000
297.9	0.0000	0.0000	0.0000
298.0	0.0000	0.0000	0.0000
298.1	0.0000	0.0000	0.0000
298.2	0.0000	0.0000	0.0000
298.3	0.0000	0.0000	0.0000
298.4	0.0000	0.0000	0.0000
298.5	0.0000	0.0000	0.0000
298.6	0.0000	0.0000	0.0000
298.7	0.0000	0.0000	0.0000
298.8	0.0000	0.0000	0.0000
298.9	0.0000	0.0000	0.0000
299.0	0.0000	0.0000	0.0000
299.1	0.0000	0.0000	0.0000
299.2	0.0000	0.0000	0.0000
299.3	0.0000	0.0000	0.0000
299.4	0.0000	0.0000	0.0000
299.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
299.6	0.0000	0.0000	0.0000
299.7	0.0000	0.0000	0.0000
299.8	0.0000	0.0000	0.0000
299.9	0.0000	0.0000	0.0000
300.0	0.0000	0.0000	0.0000
300.1	0.0000	0.0000	0.0000
300.2	0.0000	0.0000	0.0000
300.3	0.0000	0.0000	0.0000
300.4	0.0000	0.0000	0.0000
300.5	0.0000	0.0000	0.0000
300.6	0.0000	0.0000	0.0000
300.7	0.0000	0.0000	0.0000
300.8	0.0000	0.0000	0.0000
300.9	0.0000	0.0000	0.0000
301.0	0.0000	0.0000	0.0000
301.1	0.0000	0.0000	0.0000
301.2	0.0000	0.0000	0.0000
301.3	0.0000	0.0000	0.0000
301.4	0.0000	0.0000	0.0000
301.5	0.0000	0.0000	0.0000
301.6	0.0000	0.0000	0.0000
301.7	0.0000	0.0000	0.0000
301.8	0.0000	0.0000	0.0000
301.9	0.0000	0.0000	0.0000
302.0	0.0000	0.0000	0.0000
302.1	0.0000	0.0000	0.0000
302.2	0.0000	0.0000	0.0000
302.3	0.0000	0.0000	0.0000
302.4	0.0000	0.0000	0.0000
302.5	0.0000	0.0000	0.0000
302.6	0.0000	0.0000	0.0000
302.7	0.0000	0.0000	0.0000
302.8	0.0000	0.0000	0.0000
302.9	0.0000	0.0000	0.0000
303.0	0.0000	0.0000	0.0000
303.1	0.0000	0.0000	0.0000
303.2	0.0000	0.0000	0.0000
303.3	0.0000	0.0000	0.0000
303.4	0.0000	0.0000	0.0000
303.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
303.6	0.0000	0.0000	0.0000
303.7	0.0000	0.0000	0.0000
303.8	0.0000	0.0000	0.0000
303.9	0.0000	0.0000	0.0000
304.0	0.0000	0.0000	0.0000
304.1	0.0000	0.0000	0.0000
304.2	0.0000	0.0000	0.0000
304.3	0.0000	0.0000	0.0000
304.4	0.0000	0.0000	0.0000
304.5	0.0000	0.0000	0.0000
304.6	0.0000	0.0000	0.0000
304.7	0.0000	0.0000	0.0000
304.8	0.0000	0.0000	0.0000
304.9	0.0000	0.0000	0.0000
305.0	0.0000	0.0000	0.0000
305.1	0.0000	0.0000	0.0000
305.2	0.0000	0.0000	0.0000
305.3	0.0000	0.0000	0.0000
305.4	0.0000	0.0000	0.0000
305.5	0.0000	0.0000	0.0000
305.6	0.0000	0.0000	0.0000
305.7	0.0000	0.0000	0.0000
305.8	0.0000	0.0000	0.0000
305.9	0.0000	0.0000	0.0000
306.0	0.0000	0.0000	0.0000
306.1	0.0000	0.0000	0.0000
306.2	0.0000	0.0000	0.0000
306.3	0.0000	0.0000	0.0000
306.4	0.0000	0.0000	0.0000
306.5	0.0000	0.0000	0.0000
306.6	0.0000	0.0000	0.0000
306.7	0.0000	0.0000	0.0000
306.8	0.0000	0.0000	0.0000
306.9	0.0000	0.0000	0.0000
307.0	0.0000	0.0000	0.0000
307.1	0.0000	0.0000	0.0000
307.2	0.0000	0.0000	0.0000
307.3	0.0000	0.0000	0.0000
307.4	0.0000	0.0000	0.0000
307.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
307.6	0.0000	0.0000	0.0000
307.7	0.0000	0.0000	0.0000
307.8	0.0000	0.0000	0.0000
307.9	0.0000	0.0000	0.0000
308.0	0.0000	0.0000	0.0000
308.1	0.0000	0.0000	0.0000
308.2	0.0000	0.0000	0.0000
308.3	0.0000	0.0000	0.0000
308.4	0.0000	0.0000	0.0000
308.5	0.0000	0.0000	0.0000
308.6	0.0000	0.0000	0.0000
308.7	0.0000	0.0000	0.0000
308.8	0.0000	0.0000	0.0000
308.9	0.0000	0.0000	0.0000
309.0	0.0000	0.0000	0.0000
309.1	0.0000	0.0000	0.0000
309.2	0.0000	0.0000	0.0000
309.3	0.0000	0.0000	0.0000
309.4	0.0000	0.0000	0.0000
309.5	0.0000	0.0000	0.0000
309.6	0.0000	0.0000	0.0000
309.7	0.0000	0.0000	0.0000
309.8	0.0000	0.0000	0.0000
309.9	0.0000	0.0000	0.0000
310.0	0.0000	0.0000	0.0000
310.1	0.0000	0.0000	0.0000
310.2	0.0000	0.0000	0.0000
310.3	0.0000	0.0000	0.0000
310.4	0.0000	0.0000	0.0000
310.5	0.0000	0.0000	0.0000
310.6	0.0000	0.0000	0.0000
310.7	0.0000	0.0000	0.0000
310.8	0.0000	0.0000	0.0000
310.9	0.0000	0.0000	0.0000
311.0	0.0000	0.0000	0.0000
311.1	0.0000	0.0000	0.0000
311.2	0.0000	0.0000	0.0000
311.3	0.0000	0.0000	0.0000
311.4	0.0000	0.0000	0.0000
311.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
311.6	0.0000	0.0000	0.0000
311.7	0.0000	0.0000	0.0000
311.8	0.0000	0.0000	0.0000
311.9	0.0000	0.0000	0.0000
312.0	0.0000	0.0000	0.0000
312.1	0.0000	0.0000	0.0000
312.2	0.0000	0.0000	0.0000
312.3	0.0000	0.0000	0.0000
312.4	0.0000	0.0000	0.0000
312.5	0.0000	0.0000	0.0000
312.6	0.0000	0.0000	0.0000
312.7	0.0000	0.0000	0.0000
312.8	0.0000	0.0000	0.0000
312.9	0.0000	0.0000	0.0000
313.0	0.0000	0.0000	0.0000
313.1	0.0000	0.0000	0.0000
313.2	0.0000	0.0000	0.0000
313.3	0.0000	0.0000	0.0000
313.4	0.0000	0.0000	0.0000
313.5	0.0000	0.0000	0.0000
313.6	0.0000	0.0000	0.0000
313.7	0.0000	0.0000	0.0000
313.8	0.0000	0.0000	0.0000
313.9	0.0000	0.0000	0.0000
314.0	0.0000	0.0000	0.0000
314.1	0.0000	0.0000	0.0000
314.2	0.0000	0.0000	0.0000
314.3	0.0000	0.0000	0.0000
314.4	0.0000	0.0000	0.0000
314.5	0.0000	0.0000	0.0000
314.6	0.0000	0.0000	0.0000
314.7	0.0000	0.0000	0.0000
314.8	0.0000	0.0000	0.0000
314.9	0.0000	0.0000	0.0000
315.0	0.0000	0.0000	0.0000
315.1	0.0000	0.0000	0.0000
315.2	0.0000	0.0000	0.0000
315.3	0.0000	0.0000	0.0000
315.4	0.0000	0.0000	0.0000
315.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
315.6	0.0000	0.0000	0.0000
315.7	0.0000	0.0000	0.0000
315.8	0.0000	0.0000	0.0000
315.9	0.0000	0.0000	0.0000
316.0	0.0000	0.0000	0.0000
316.1	0.0000	0.0000	0.0000
316.2	0.0000	0.0000	0.0000
316.3	0.0000	0.0000	0.0000
316.4	0.0000	0.0000	0.0000
316.5	0.0000	0.0000	0.0000
316.6	0.0000	0.0000	0.0000
316.7	0.0000	0.0000	0.0000
316.8	0.0000	0.0000	0.0000
316.9	0.0000	0.0000	0.0000
317.0	0.0000	0.0000	0.0000
317.1	0.0000	0.0000	0.0000
317.2	0.0000	0.0000	0.0000
317.3	0.0000	0.0000	0.0000
317.4	0.0000	0.0000	0.0000
317.5	0.0000	0.0000	0.0000
317.6	0.0000	0.0000	0.0000
317.7	0.0000	0.0000	0.0000
317.8	0.0000	0.0000	0.0000
317.9	0.0000	0.0000	0.0000
318.0	0.0000	0.0000	0.0000
318.1	0.0000	0.0000	0.0000
318.2	0.0000	0.0000	0.0000
318.3	0.0000	0.0000	0.0000
318.4	0.0000	0.0000	0.0000
318.5	0.0000	0.0000	0.0000
318.6	0.0000	0.0000	0.0000
318.7	0.0000	0.0000	0.0000
318.8	0.0000	0.0000	0.0000
318.9	0.0000	0.0000	0.0000
319.0	0.0000	0.0000	0.0000
319.1	0.0000	0.0000	0.0000
319.2	0.0000	0.0000	0.0000
319.3	0.0000	0.0000	0.0000
319.4	0.0000	0.0000	0.0000
319.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
319.6	0.0000	0.0000	0.0000
319.7	0.0000	0.0000	0.0000
319.8	0.0000	0.0000	0.0000
319.9	0.0000	0.0000	0.0000
320.0	0.0000	0.0000	0.0000
320.1	0.0000	0.0000	0.0000
320.2	0.0000	0.0000	0.0000
320.3	0.0000	0.0000	0.0000
320.4	0.0000	0.0000	0.0000
320.5	0.0000	0.0000	0.0000
320.6	0.0000	0.0000	0.0000
320.7	0.0000	0.0000	0.0000
320.8	0.0000	0.0000	0.0000
320.9	0.0000	0.0000	0.0000
321.0	0.0000	0.0000	0.0000
321.1	0.0000	0.0000	0.0000
321.2	0.0000	0.0000	0.0000
321.3	0.0000	0.0000	0.0000
321.4	0.0000	0.0000	0.0000
321.5	0.0000	0.0000	0.0000
321.6	0.0000	0.0000	0.0000
321.7	0.0000	0.0000	0.0000
321.8	0.0000	0.0000	0.0000
321.9	0.0000	0.0000	0.0000
322.0	0.0000	0.0000	0.0000
322.1	0.0000	0.0000	0.0000
322.2	0.0000	0.0000	0.0000
322.3	0.0000	0.0000	0.0000
322.4	0.0000	0.0000	0.0000
322.5	0.0000	0.0000	0.0000
322.6	0.0000	0.0000	0.0000
322.7	0.0000	0.0000	0.0000
322.8	0.0000	0.0000	0.0000
322.9	0.0000	0.0000	0.0000
323.0	0.0000	0.0000	0.0000
323.1	0.0000	0.0000	0.0000
323.2	0.0000	0.0000	0.0000
323.3	0.0000	0.0000	0.0000
323.4	0.0000	0.0000	0.0000
323.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
323.6	0.0000	0.0000	0.0000
323.7	0.0000	0.0000	0.0000
323.8	0.0000	0.0000	0.0000
323.9	0.0000	0.0000	0.0000
324.0	0.0000	0.0000	0.0000
324.1	0.0000	0.0000	0.0000
324.2	0.0000	0.0000	0.0000
324.3	0.0000	0.0000	0.0000
324.4	0.0000	0.0000	0.0000
324.5	0.0000	0.0000	0.0000
324.6	0.0000	0.0000	0.0000
324.7	0.0000	0.0000	0.0000
324.8	0.0000	0.0000	0.0000
324.9	0.0000	0.0000	0.0000
325.0	0.0000	0.0000	0.0000
325.1	0.0000	0.0000	0.0000
325.2	0.0000	0.0000	0.0000
325.3	0.0000	0.0000	0.0000
325.4	0.0000	0.0000	0.0000
325.5	0.0000	0.0000	0.0000
325.6	0.0000	0.0000	0.0000
325.7	0.0000	0.0000	0.0000
325.8	0.0000	0.0000	0.0000
325.9	0.0000	0.0000	0.0000
326.0	0.0000	0.0000	0.0000
326.1	0.0000	0.0000	0.0000
326.2	0.0000	0.0000	0.0000
326.3	0.0000	0.0000	0.0000
326.4	0.0000	0.0000	0.0000
326.5	0.0000	0.0000	0.0000
326.6	0.0000	0.0000	0.0000
326.7	0.0000	0.0000	0.0000
326.8	0.0000	0.0000	0.0000
326.9	0.0000	0.0000	0.0000
327.0	0.0000	0.0000	0.0000
327.1	0.0000	0.0000	0.0000
327.2	0.0000	0.0000	0.0000
327.3	0.0000	0.0000	0.0000
327.4	0.0000	0.0000	0.0000
327.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
327.6	0.0000	0.0000	0.0000
327.7	0.0000	0.0000	0.0000
327.8	0.0000	0.0000	0.0000
327.9	0.0000	0.0000	0.0000
328.0	0.0000	0.0000	0.0000
328.1	0.0000	0.0000	0.0000
328.2	0.0000	0.0000	0.0000
328.3	0.0000	0.0000	0.0000
328.4	0.0000	0.0000	0.0000
328.5	0.0000	0.0000	0.0000
328.6	0.0000	0.0000	0.0000
328.7	0.0000	0.0000	0.0000
328.8	0.0000	0.0000	0.0000
328.9	0.0000	0.0000	0.0000
329.0	0.0000	0.0000	0.0000
329.1	0.0000	0.0000	0.0000
329.2	0.0000	0.0000	0.0000
329.3	0.0000	0.0000	0.0000
329.4	0.0000	0.0000	0.0000
329.5	0.0000	0.0000	0.0000
329.6	0.0000	0.0000	0.0000
329.7	0.0000	0.0000	0.0000
329.8	0.0000	0.0000	0.0000
329.9	0.0000	0.0000	0.0000
330.0	0.0000	0.0000	0.0000
330.1	0.0000	0.0000	0.0000
330.2	0.0000	0.0000	0.0000
330.3	0.0000	0.0000	0.0000
330.4	0.0000	0.0000	0.0000
330.5	0.0000	0.0000	0.0000
330.6	0.0000	0.0000	0.0000
330.7	0.0000	0.0000	0.0000
330.8	0.0000	0.0000	0.0000
330.9	0.0000	0.0000	0.0000
331.0	0.0000	0.0000	0.0000
331.1	0.0000	0.0000	0.0000
331.2	0.0000	0.0000	0.0000
331.3	0.0000	0.0000	0.0000
331.4	0.0000	0.0000	0.0000
331.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
331.6	0.0000	0.0000	0.0000
331.7	0.0000	0.0000	0.0000
331.8	0.0000	0.0000	0.0000
331.9	0.0000	0.0000	0.0000
332.0	0.0000	0.0000	0.0000
332.1	0.0000	0.0000	0.0000
332.2	0.0000	0.0000	0.0000
332.3	0.0000	0.0000	0.0000
332.4	0.0000	0.0000	0.0000
332.5	0.0000	0.0000	0.0000
332.6	0.0000	0.0000	0.0000
332.7	0.0000	0.0000	0.0000
332.8	0.0000	0.0000	0.0000
332.9	0.0000	0.0000	0.0000
333.0	0.0000	0.0000	0.0000
333.1	0.0000	0.0000	0.0000
333.2	0.0000	0.0000	0.0000
333.3	0.0000	0.0000	0.0000
333.4	0.0000	0.0000	0.0000
333.5	0.0000	0.0000	0.0000
333.6	0.0000	0.0000	0.0000
333.7	0.0000	0.0000	0.0000
333.8	0.0000	0.0000	0.0000
333.9	0.0000	0.0000	0.0000
334.0	0.0000	0.0000	0.0000
334.1	0.0000	0.0000	0.0000
334.2	0.0000	0.0000	0.0000
334.3	0.0000	0.0000	0.0000
334.4	0.0000	0.0000	0.0000
334.5	0.0000	0.0000	0.0000
334.6	0.0000	0.0000	0.0000
334.7	0.0000	0.0000	0.0000
334.8	0.0000	0.0000	0.0000
334.9	0.0000	0.0000	0.0000
335.0	0.0000	0.0000	0.0000
335.1	0.0000	0.0000	0.0000
335.2	0.0000	0.0000	0.0000
335.3	0.0000	0.0000	0.0000
335.4	0.0000	0.0000	0.0000
335.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
335.6	0.0000	0.0000	0.0000
335.7	0.0000	0.0000	0.0000
335.8	0.0000	0.0000	0.0000
335.9	0.0000	0.0000	0.0000
336.0	0.0000	0.0000	0.0000
336.1	0.0000	0.0000	0.0000
336.2	0.0000	0.0000	0.0000
336.3	0.0000	0.0000	0.0000
336.4	0.0000	0.0000	0.0000
336.5	0.0000	0.0000	0.0000
336.6	0.0000	0.0000	0.0000
336.7	0.0000	0.0000	0.0000
336.8	0.0000	0.0000	0.0000
336.9	0.0000	0.0000	0.0000
337.0	0.0000	0.0000	0.0000
337.1	0.0000	0.0000	0.0000
337.2	0.0000	0.0000	0.0000
337.3	0.0000	0.0000	0.0000
337.4	0.0000	0.0000	0.0000
337.5	0.0000	0.0000	0.0000
337.6	0.0000	0.0000	0.0000
337.7	0.0000	0.0000	0.0000
337.8	0.0000	0.0000	0.0000
337.9	0.0000	0.0000	0.0000
338.0	0.0000	0.0000	0.0000
338.1	0.0000	0.0000	0.0000
338.2	0.0000	0.0000	0.0000
338.3	0.0000	0.0000	0.0000
338.4	0.0000	0.0000	0.0000
338.5	0.0000	0.0000	0.0000
338.6	0.0000	0.0000	0.0000
338.7	0.0000	0.0000	0.0000
338.8	0.0000	0.0000	0.0000
338.9	0.0000	0.0000	0.0000
339.0	0.0000	0.0000	0.0000
339.1	0.0000	0.0000	0.0000
339.2	0.0000	0.0000	0.0000
339.3	0.0000	0.0000	0.0000
339.4	0.0000	0.0000	0.0000
339.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
339.6	0.0000	0.0000	0.0000
339.7	0.0000	0.0000	0.0000
339.8	0.0000	0.0000	0.0000
339.9	0.0000	0.0000	0.0000
340.0	0.0000	0.0000	0.0000
340.1	0.0000	0.0000	0.0000
340.2	0.0000	0.0000	0.0000
340.3	0.0000	0.0000	0.0000
340.4	0.0000	0.0000	0.0000
340.5	0.0000	0.0000	0.0000
340.6	0.0000	0.0000	0.0000
340.7	0.0000	0.0000	0.0000
340.8	0.0000	0.0000	0.0000
340.9	0.0000	0.0000	0.0000
341.0	0.0000	0.0000	0.0000
341.1	0.0000	0.0000	0.0000
341.2	0.0000	0.0000	0.0000
341.3	0.0000	0.0000	0.0000
341.4	0.0000	0.0000	0.0000
341.5	0.0000	0.0000	0.0000
341.6	0.0000	0.0000	0.0000
341.7	0.0000	0.0000	0.0000
341.8	0.0000	0.0000	0.0000
341.9	0.0000	0.0000	0.0000
342.0	0.0000	0.0000	0.0000
342.1	0.0000	0.0000	0.0000
342.2	0.0000	0.0000	0.0000
342.3	0.0000	0.0000	0.0000
342.4	0.0000	0.0000	0.0000
342.5	0.0000	0.0000	0.0000
342.6	0.0000	0.0000	0.0000
342.7	0.0000	0.0000	0.0000
342.8	0.0000	0.0000	0.0000
342.9	0.0000	0.0000	0.0000
343.0	0.0000	0.0000	0.0000
343.1	0.0000	0.0000	0.0000
343.2	0.0000	0.0000	0.0000
343.3	0.0000	0.0000	0.0000
343.4	0.0000	0.0000	0.0000
343.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
343.6	0.0000	0.0000	0.0000
343.7	0.0000	0.0000	0.0000
343.8	0.0000	0.0000	0.0000
343.9	0.0000	0.0000	0.0000
344.0	0.0000	0.0000	0.0000
344.1	0.0000	0.0000	0.0000
344.2	0.0000	0.0000	0.0000
344.3	0.0000	0.0000	0.0000
344.4	0.0000	0.0000	0.0000
344.5	0.0000	0.0000	0.0000
344.6	0.0000	0.0000	0.0000
344.7	0.0000	0.0000	0.0000
344.8	0.0000	0.0000	0.0000
344.9	0.0000	0.0000	0.0000
345.0	0.0000	0.0000	0.0000
345.1	0.0000	0.0000	0.0000
345.2	0.0000	0.0000	0.0000
345.3	0.0000	0.0000	0.0000
345.4	0.0000	0.0000	0.0000
345.5	0.0000	0.0000	0.0000
345.6	0.0000	0.0000	0.0000
345.7	0.0000	0.0000	0.0000
345.8	0.0000	0.0000	0.0000
345.9	0.0000	0.0000	0.0000
346.0	0.0000	0.0000	0.0000
346.1	0.0000	0.0000	0.0000
346.2	0.0000	0.0000	0.0000
346.3	0.0000	0.0000	0.0000
346.4	0.0000	0.0000	0.0000
346.5	0.0000	0.0000	0.0000
346.6	0.0000	0.0000	0.0000
346.7	0.0000	0.0000	0.0000
346.8	0.0000	0.0000	0.0000
346.9	0.0000	0.0000	0.0000
347.0	0.0000	0.0000	0.0000
347.1	0.0000	0.0000	0.0000
347.2	0.0000	0.0000	0.0000
347.3	0.0000	0.0000	0.0000
347.4	0.0000	0.0000	0.0000
347.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
347.6	0.0000	0.0000	0.0000
347.7	0.0000	0.0000	0.0000
347.8	0.0000	0.0000	0.0000
347.9	0.0000	0.0000	0.0000
348.0	0.0000	0.0000	0.0000
348.1	0.0000	0.0000	0.0000
348.2	0.0000	0.0000	0.0000
348.3	0.0000	0.0000	0.0000
348.4	0.0000	0.0000	0.0000
348.5	0.0000	0.0000	0.0000
348.6	0.0000	0.0000	0.0000
348.7	0.0000	0.0000	0.0000
348.8	0.0000	0.0000	0.0000
348.9	0.0000	0.0000	0.0000
349.0	0.0000	0.0000	0.0000
349.1	0.0000	0.0000	0.0000
349.2	0.0000	0.0000	0.0000
349.3	0.0000	0.0000	0.0000
349.4	0.0000	0.0000	0.0000
349.5	0.0000	0.0000	0.0000
349.6	0.0000	0.0000	0.0000
349.7	0.0000	0.0000	0.0000
349.8	0.0000	0.0000	0.0000
349.9	0.0000	0.0000	0.0000
350.0	0.0000	0.0000	0.0000
350.1	0.0000	0.0000	0.0000
350.2	0.0000	0.0000	0.0000
350.3	0.0000	0.0000	0.0000
350.4	0.0000	0.0000	0.0000
350.5	0.0000	0.0000	0.0000
350.6	0.0000	0.0000	0.0000
350.7	0.0000	0.0000	0.0000
350.8	0.0000	0.0000	0.0000
350.9	0.0000	0.0000	0.0000
351.0	0.0000	0.0000	0.0000
351.1	0.0000	0.0000	0.0000
351.2	0.0000	0.0000	0.0000
351.3	0.0000	0.0000	0.0000
351.4	0.0000	0.0000	0.0000
351.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
351.6	0.0000	0.0000	0.0000
351.7	0.0000	0.0000	0.0000
351.8	0.0000	0.0000	0.0000
351.9	0.0000	0.0000	0.0000
352.0	0.0000	0.0000	0.0000
352.1	0.0000	0.0000	0.0000
352.2	0.0000	0.0000	0.0000
352.3	0.0000	0.0000	0.0000
352.4	0.0000	0.0000	0.0000
352.5	0.0000	0.0000	0.0000
352.6	0.0000	0.0000	0.0000
352.7	0.0000	0.0000	0.0000
352.8	0.0000	0.0000	0.0000
352.9	0.0000	0.0000	0.0000
353.0	0.0000	0.0000	0.0000
353.1	0.0000	0.0000	0.0000
353.2	0.0000	0.0000	0.0000
353.3	0.0000	0.0000	0.0000
353.4	0.0000	0.0000	0.0000
353.5	0.0000	0.0000	0.0000
353.6	0.0000	0.0000	0.0000
353.7	0.0000	0.0000	0.0000
353.8	0.0000	0.0000	0.0000
353.9	0.0000	0.0000	0.0000
354.0	0.0000	0.0000	0.0000
354.1	0.0000	0.0000	0.0000
354.2	0.0000	0.0000	0.0000
354.3	0.0000	0.0000	0.0000
354.4	0.0000	0.0000	0.0000
354.5	0.0000	0.0000	0.0000
354.6	0.0000	0.0000	0.0000
354.7	0.0000	0.0000	0.0000
354.8	0.0000	0.0000	0.0000
354.9	0.0000	0.0000	0.0000
355.0	0.0000	0.0000	0.0000
355.1	0.0000	0.0000	0.0000
355.2	0.0000	0.0000	0.0000
355.3	0.0000	0.0000	0.0000
355.4	0.0000	0.0000	0.0000
355.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
355.6	0.0000	0.0000	0.0000
355.7	0.0000	0.0000	0.0000
355.8	0.0000	0.0000	0.0000
355.9	0.0000	0.0000	0.0000
356.0	0.0000	0.0000	0.0000
356.1	0.0000	0.0000	0.0000
356.2	0.0000	0.0000	0.0000
356.3	0.0000	0.0000	0.0000
356.4	0.0000	0.0000	0.0000
356.5	0.0000	0.0000	0.0000
356.6	0.0000	0.0000	0.0000
356.7	0.0000	0.0000	0.0000
356.8	0.0000	0.0000	0.0000
356.9	0.0000	0.0000	0.0000
357.0	0.0000	0.0000	0.0000
357.1	0.0000	0.0000	0.0000
357.2	0.0000	0.0000	0.0000
357.3	0.0000	0.0000	0.0000
357.4	0.0000	0.0000	0.0000
357.5	0.0000	0.0000	0.0000
357.6	0.0000	0.0000	0.0000
357.7	0.0000	0.0000	0.0000
357.8	0.0000	0.0000	0.0000
357.9	0.0000	0.0000	0.0000
358.0	0.0000	0.0000	0.0000
358.1	0.0000	0.0000	0.0000
358.2	0.0000	0.0000	0.0000
358.3	0.0000	0.0000	0.0000
358.4	0.0000	0.0000	0.0000
358.5	0.0000	0.0000	0.0000
358.6	0.0000	0.0000	0.0000
358.7	0.0000	0.0000	0.0000
358.8	0.0000	0.0000	0.0000
358.9	0.0000	0.0000	0.0000
359.0	0.0000	0.0000	0.0000
359.1	0.0000	0.0000	0.0000
359.2	0.0000	0.0000	0.0000
359.3	0.0000	0.0000	0.0000
359.4	0.0000	0.0000	0.0000
359.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
359.6	0.0000	0.0000	0.0000
359.7	0.0000	0.0000	0.0000
359.8	0.0000	0.0000	0.0000
359.9	0.0000	0.0000	0.0000
360.0	0.0000	0.0000	0.0000
360.1	0.0000	0.0000	0.0000
360.2	0.0000	0.0000	0.0000
360.3	0.0000	0.0000	0.0000
360.4	0.0000	0.0000	0.0000
360.5	0.0000	0.0000	0.0000
360.6	0.0000	0.0000	0.0000
360.7	0.0000	0.0000	0.0000
360.8	0.0000	0.0000	0.0000
360.9	0.0000	0.0000	0.0000
361.0	0.0000	0.0000	0.0000
361.1	0.0000	0.0000	0.0000
361.2	0.0000	0.0000	0.0000
361.3	0.0000	0.0000	0.0000
361.4	0.0000	0.0000	0.0000
361.5	0.0000	0.0000	0.0000
361.6	0.0000	0.0000	0.0000
361.7	0.0000	0.0000	0.0000
361.8	0.0000	0.0000	0.0000
361.9	0.0000	0.0000	0.0000
362.0	0.0000	0.0000	0.0000
362.1	0.0000	0.0000	0.0000
362.2	0.0000	0.0000	0.0000
362.3	0.0000	0.0000	0.0000
362.4	0.0000	0.0000	0.0000
362.5	0.0000	0.0000	0.0000
362.6	0.0000	0.0000	0.0000
362.7	0.0000	0.0000	0.0000
362.8	0.0000	0.0000	0.0000
362.9	0.0000	0.0000	0.0000
363.0	0.0000	0.0000	0.0000
363.1	0.0000	0.0000	0.0000
363.2	0.0000	0.0000	0.0000
363.3	0.0000	0.0000	0.0000
363.4	0.0000	0.0000	0.0000
363.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
363.6	0.0000	0.0000	0.0000
363.7	0.0000	0.0000	0.0000
363.8	0.0000	0.0000	0.0000
363.9	0.0000	0.0000	0.0000
364.0	0.0000	0.0000	0.0000
364.1	0.0000	0.0000	0.0000
364.2	0.0000	0.0000	0.0000
364.3	0.0000	0.0000	0.0000
364.4	0.0000	0.0000	0.0000
364.5	0.0000	0.0000	0.0000
364.6	0.0000	0.0000	0.0000
364.7	0.0000	0.0000	0.0000
364.8	0.0000	0.0000	0.0000
364.9	0.0000	0.0000	0.0000
365.0	0.0000	0.0000	0.0000
365.1	0.0000	0.0000	0.0000
365.2	0.0000	0.0000	0.0000
365.3	0.0000	0.0000	0.0000
365.4	0.0000	0.0000	0.0000
365.5	0.0000	0.0000	0.0000
365.6	0.0000	0.0000	0.0000
365.7	0.0000	0.0000	0.0000
365.8	0.0000	0.0000	0.0000
365.9	0.0000	0.0000	0.0000
366.0	0.0000	0.0000	0.0000
366.1	0.0000	0.0000	0.0000
366.2	0.0000	0.0000	0.0000
366.3	0.0000	0.0000	0.0000
366.4	0.0000	0.0000	0.0000
366.5	0.0000	0.0000	0.0000
366.6	0.0000	0.0000	0.0000
366.7	0.0000	0.0000	0.0000
366.8	0.0000	0.0000	0.0000
366.9	0.0000	0.0000	0.0000
367.0	0.0000	0.0000	0.0000
367.1	0.0000	0.0000	0.0000
367.2	0.0000	0.0000	0.0000
367.3	0.0000	0.0000	0.0000
367.4	0.0000	0.0000	0.0000
367.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
367.6	0.0000	0.0000	0.0000
367.7	0.0000	0.0000	0.0000
367.8	0.0000	0.0000	0.0000
367.9	0.0000	0.0000	0.0000
368.0	0.0000	0.0000	0.0000
368.1	0.0000	0.0000	0.0000
368.2	0.0000	0.0000	0.0000
368.3	0.0000	0.0000	0.0000
368.4	0.0000	0.0000	0.0000
368.5	0.0000	0.0000	0.0000
368.6	0.0000	0.0000	0.0000
368.7	0.0000	0.0000	0.0000
368.8	0.0000	0.0000	0.0000
368.9	0.0000	0.0000	0.0000
369.0	0.0000	0.0000	0.0000
369.1	0.0000	0.0000	0.0000
369.2	0.0000	0.0000	0.0000
369.3	0.0000	0.0000	0.0000
369.4	0.0000	0.0000	0.0000
369.5	0.0000	0.0000	0.0000
369.6	0.0000	0.0000	0.0000
369.7	0.0000	0.0000	0.0000
369.8	0.0000	0.0000	0.0000
369.9	0.0000	0.0000	0.0000
370.0	0.0000	0.0000	0.0000
370.1	0.0000	0.0000	0.0000
370.2	0.0000	0.0000	0.0000
370.3	0.0000	0.0000	0.0000
370.4	0.0000	0.0000	0.0000
370.5	0.0000	0.0000	0.0000
370.6	0.0000	0.0000	0.0000
370.7	0.0000	0.0000	0.0000
370.8	0.0000	0.0000	0.0000
370.9	0.0000	0.0000	0.0000
371.0	0.0000	0.0000	0.0000
371.1	0.0000	0.0000	0.0000
371.2	0.0000	0.0000	0.0000
371.3	0.0000	0.0000	0.0000
371.4	0.0000	0.0000	0.0000
371.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
371.6	0.0000	0.0000	0.0000
371.7	0.0000	0.0000	0.0000
371.8	0.0000	0.0000	0.0000
371.9	0.0000	0.0000	0.0000
372.0	0.0000	0.0000	0.0000
372.1	0.0000	0.0000	0.0000
372.2	0.0000	0.0000	0.0000
372.3	0.0000	0.0000	0.0000
372.4	0.0000	0.0000	0.0000
372.5	0.0000	0.0000	0.0000
372.6	0.0000	0.0000	0.0000
372.7	0.0000	0.0000	0.0000
372.8	0.0000	0.0000	0.0000
372.9	0.0000	0.0000	0.0000
373.0	0.0000	0.0000	0.0000
373.1	0.0000	0.0000	0.0000
373.2	0.0000	0.0000	0.0000
373.3	0.0000	0.0000	0.0000
373.4	0.0000	0.0000	0.0000
373.5	0.0000	0.0000	0.0000
373.6	0.0000	0.0000	0.0000
373.7	0.0000	0.0000	0.0000
373.8	0.0000	0.0000	0.0000
373.9	0.0000	0.0000	0.0000
374.0	0.0000	0.0000	0.0000
374.1	0.0000	0.0000	0.0000
374.2	0.0000	0.0000	0.0000
374.3	0.0000	0.0000	0.0000
374.4	0.0000	0.0000	0.0000
374.5	0.0000	0.0000	0.0000
374.6	0.0000	0.0000	0.0000
374.7	0.0000	0.0000	0.0000
374.8	0.0000	0.0000	0.0000
374.9	0.0000	0.0000	0.0000
375.0	0.0000	0.0000	0.0000
375.1	0.0000	0.0000	0.0000
375.2	0.0000	0.0000	0.0000
375.3	0.0000	0.0000	0.0000
375.4	0.0000	0.0000	0.0000
375.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
375.6	0.0000	0.0000	0.0000
375.7	0.0000	0.0000	0.0000
375.8	0.0000	0.0000	0.0000
375.9	0.0000	0.0000	0.0000
376.0	0.0000	0.0000	0.0000
376.1	0.0000	0.0000	0.0000
376.2	0.0000	0.0000	0.0000
376.3	0.0000	0.0000	0.0000
376.4	0.0000	0.0000	0.0000
376.5	0.0000	0.0000	0.0000
376.6	0.0000	0.0000	0.0000
376.7	0.0000	0.0000	0.0000
376.8	0.0000	0.0000	0.0000
376.9	0.0000	0.0000	0.0000
377.0	0.0000	0.0000	0.0000
377.1	0.0000	0.0000	0.0000
377.2	0.0000	0.0000	0.0000
377.3	0.0000	0.0000	0.0000
377.4	0.0000	0.0000	0.0000
377.5	0.0000	0.0000	0.0000
377.6	0.0000	0.0000	0.0000
377.7	0.0000	0.0000	0.0000
377.8	0.0000	0.0000	0.0000
377.9	0.0000	0.0000	0.0000
378.0	0.0000	0.0000	0.0000
378.1	0.0000	0.0000	0.0000
378.2	0.0000	0.0000	0.0000
378.3	0.0000	0.0000	0.0000
378.4	0.0000	0.0000	0.0000
378.5	0.0000	0.0000	0.0000
378.6	0.0000	0.0000	0.0000
378.7	0.0000	0.0000	0.0000
378.8	0.0000	0.0000	0.0000
378.9	0.0000	0.0000	0.0000
379.0	0.0000	0.0000	0.0000
379.1	0.0000	0.0000	0.0000
379.2	0.0000	0.0000	0.0000
379.3	0.0000	0.0000	0.0000
379.4	0.0000	0.0000	0.0000
379.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
379.6	0.0000	0.0000	0.0000
379.7	0.0000	0.0000	0.0000
379.8	0.0000	0.0000	0.0000
379.9	0.0000	0.0000	0.0000
380.0	0.0000	0.0000	0.0000
380.1	0.0000	0.0000	0.0000
380.2	0.0000	0.0000	0.0000
380.3	0.0000	0.0000	0.0000
380.4	0.0000	0.0000	0.0000
380.5	0.0000	0.0000	0.0000
380.6	0.0000	0.0000	0.0000
380.7	0.0000	0.0000	0.0000
380.8	0.0000	0.0000	0.0000
380.9	0.0000	0.0000	0.0000
381.0	0.0000	0.0000	0.0000
381.1	0.0000	0.0000	0.0000
381.2	0.0000	0.0000	0.0000
381.3	0.0000	0.0000	0.0000
381.4	0.0000	0.0000	0.0000
381.5	0.0000	0.0000	0.0000
381.6	0.0000	0.0000	0.0000
381.7	0.0000	0.0000	0.0000
381.8	0.0000	0.0000	0.0000
381.9	0.0000	0.0000	0.0000
382.0	0.0000	0.0000	0.0000
382.1	0.0000	0.0000	0.0000
382.2	0.0000	0.0000	0.0000
382.3	0.0000	0.0000	0.0000
382.4	0.0000	0.0000	0.0000
382.5	0.0000	0.0000	0.0000
382.6	0.0000	0.0000	0.0000
382.7	0.0000	0.0000	0.0000
382.8	0.0000	0.0000	0.0000
382.9	0.0000	0.0000	0.0000
383.0	0.0000	0.0000	0.0000
383.1	0.0000	0.0000	0.0000
383.2	0.0000	0.0000	0.0000
383.3	0.0000	0.0000	0.0000
383.4	0.0000	0.0000	0.0000
383.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
383.6	0.0000	0.0000	0.0000
383.7	0.0000	0.0000	0.0000
383.8	0.0000	0.0000	0.0000
383.9	0.0000	0.0000	0.0000
384.0	0.0000	0.0000	0.0000
384.1	0.0000	0.0000	0.0000
384.2	0.0000	0.0000	0.0000
384.3	0.0000	0.0000	0.0000
384.4	0.0000	0.0000	0.0000
384.5	0.0000	0.0000	0.0000
384.6	0.0000	0.0000	0.0000
384.7	0.0000	0.0000	0.0000
384.8	0.0000	0.0000	0.0000
384.9	0.0000	0.0000	0.0000
385.0	0.0000	0.0000	0.0000
385.1	0.0000	0.0000	0.0000
385.2	0.0000	0.0000	0.0000
385.3	0.0000	0.0000	0.0000
385.4	0.0000	0.0000	0.0000
385.5	0.0000	0.0000	0.0000
385.6	0.0000	0.0000	0.0000
385.7	0.0000	0.0000	0.0000
385.8	0.0000	0.0000	0.0000
385.9	0.0000	0.0000	0.0000
386.0	0.0000	0.0000	0.0000
386.1	0.0000	0.0000	0.0000
386.2	0.0000	0.0000	0.0000
386.3	0.0000	0.0000	0.0000
386.4	0.0000	0.0000	0.0000
386.5	0.0000	0.0000	0.0000
386.6	0.0000	0.0000	0.0000
386.7	0.0000	0.0000	0.0000
386.8	0.0000	0.0000	0.0000
386.9	0.0000	0.0000	0.0000
387.0	0.0000	0.0000	0.0000
387.1	0.0000	0.0000	0.0000
387.2	0.0000	0.0000	0.0000
387.3	0.0000	0.0000	0.0000
387.4	0.0000	0.0000	0.0000
387.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
387.6	0.0000	0.0000	0.0000
387.7	0.0000	0.0000	0.0000
387.8	0.0000	0.0000	0.0000
387.9	0.0000	0.0000	0.0000
388.0	0.0000	0.0000	0.0000
388.1	0.0000	0.0000	0.0000
388.2	0.0000	0.0000	0.0000
388.3	0.0000	0.0000	0.0000
388.4	0.0000	0.0000	0.0000
388.5	0.0000	0.0000	0.0000
388.6	0.0000	0.0000	0.0000
388.7	0.0000	0.0000	0.0000
388.8	0.0000	0.0000	0.0000
388.9	0.0000	0.0000	0.0000
389.0	0.0000	0.0000	0.0000
389.1	0.0000	0.0000	0.0000
389.2	0.0000	0.0000	0.0000
389.3	0.0000	0.0000	0.0000
389.4	0.0000	0.0000	0.0000
389.5	0.0000	0.0000	0.0000
389.6	0.0000	0.0000	0.0000
389.7	0.0000	0.0000	0.0000
389.8	0.0000	0.0000	0.0000
389.9	0.0000	0.0000	0.0000
390.0	0.0000	0.0000	0.0000
390.1	0.0000	0.0000	0.0000
390.2	0.0000	0.0000	0.0000
390.3	0.0000	0.0000	0.0000
390.4	0.0000	0.0000	0.0000
390.5	0.0000	0.0000	0.0000
390.6	0.0000	0.0000	0.0000
390.7	0.0000	0.0000	0.0000
390.8	0.0000	0.0000	0.0000
390.9	0.0000	0.0000	0.0000
391.0	0.0000	0.0000	0.0000
391.1	0.0000	0.0000	0.0000
391.2	0.0000	0.0000	0.0000
391.3	0.0000	0.0000	0.0000
391.4	0.0000	0.0000	0.0000
391.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
391.6	0.0000	0.0000	0.0000
391.7	0.0000	0.0000	0.0000
391.8	0.0000	0.0000	0.0000
391.9	0.0000	0.0000	0.0000
392.0	0.0000	0.0000	0.0000
392.1	0.0000	0.0000	0.0000
392.2	0.0000	0.0000	0.0000
392.3	0.0000	0.0000	0.0000
392.4	0.0000	0.0000	0.0000
392.5	0.0000	0.0000	0.0000
392.6	0.0000	0.0000	0.0000
392.7	0.0000	0.0000	0.0000
392.8	0.0000	0.0000	0.0000
392.9	0.0000	0.0000	0.0000
393.0	0.0000	0.0000	0.0000
393.1	0.0000	0.0000	0.0000
393.2	0.0000	0.0000	0.0000
393.3	0.0000	0.0000	0.0000
393.4	0.0000	0.0000	0.0000
393.5	0.0000	0.0000	0.0000
393.6	0.0000	0.0000	0.0000
393.7	0.0000	0.0000	0.0000
393.8	0.0000	0.0000	0.0000
393.9	0.0000	0.0000	0.0000
394.0	0.0000	0.0000	0.0000
394.1	0.0000	0.0000	0.0000
394.2	0.0000	0.0000	0.0000
394.3	0.0000	0.0000	0.0000
394.4	0.0000	0.0000	0.0000
394.5	0.0000	0.0000	0.0000
394.6	0.0000	0.0000	0.0000
394.7	0.0000	0.0000	0.0000
394.8	0.0000	0.0000	0.0000
394.9	0.0000	0.0000	0.0000
395.0	0.0000	0.0000	0.0000
395.1	0.0000	0.0000	0.0000
395.2	0.0000	0.0000	0.0000
395.3	0.0000	0.0000	0.0000
395.4	0.0000	0.0000	0.0000
395.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
395.6	0.0000	0.0000	0.0000
395.7	0.0000	0.0000	0.0000
395.8	0.0000	0.0000	0.0000
395.9	0.0000	0.0000	0.0000
396.0	0.0000	0.0000	0.0000
396.1	0.0000	0.0000	0.0000
396.2	0.0000	0.0000	0.0000
396.3	0.0000	0.0000	0.0000
396.4	0.0000	0.0000	0.0000
396.5	0.0000	0.0000	0.0000
396.6	0.0000	0.0000	0.0000
396.7	0.0000	0.0000	0.0000
396.8	0.0000	0.0000	0.0000
396.9	0.0000	0.0000	0.0000
397.0	0.0000	0.0000	0.0000
397.1	0.0000	0.0000	0.0000
397.2	0.0000	0.0000	0.0000
397.3	0.0000	0.0000	0.0000
397.4	0.0000	0.0000	0.0000
397.5	0.0000	0.0000	0.0000
397.6	0.0000	0.0000	0.0000
397.7	0.0000	0.0000	0.0000
397.8	0.0000	0.0000	0.0000
397.9	0.0000	0.0000	0.0000
398.0	0.0000	0.0000	0.0000
398.1	0.0000	0.0000	0.0000
398.2	0.0000	0.0000	0.0000
398.3	0.0000	0.0000	0.0000
398.4	0.0000	0.0000	0.0000
398.5	0.0000	0.0000	0.0000
398.6	0.0000	0.0000	0.0000
398.7	0.0000	0.0000	0.0000
398.8	0.0000	0.0000	0.0000
398.9	0.0000	0.0000	0.0000
399.0	0.0000	0.0000	0.0000
399.1	0.0000	0.0000	0.0000
399.2	0.0000	0.0000	0.0000
399.3	0.0000	0.0000	0.0000
399.4	0.0000	0.0000	0.0000
399.5	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
399.6	0.0000	0.0000	0.0000
399.7	0.0000	0.0000	0.0000
399.8	0.0000	0.0000	0.0000
399.9	0.0000	0.0000	0.0000
400.0	0.0000	0.0000	0.0000

Table B.6.2: Output for Problem 6.1.1-L02

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0000	0.0000
1.0	0.0000	0.0000	0.0000
2.0	0.0000	0.0000	0.0000
3.0	0.0000	0.0000	0.0000
4.0	0.0000	0.0000	0.0000
5.0	0.0000	0.0000	0.0000
6.0	0.0000	0.0000	0.0000
7.0	0.0000	0.0000	0.0000
8.0	0.0000	0.0000	0.0000
9.0	0.0000	0.0000	0.0000
10.0	0.0000	0.0000	0.0000
11.0	0.0000	0.0000	0.0000
12.0	0.0000	0.0000	0.0000
13.0	0.0000	0.0000	0.0000
14.0	0.0000	0.0000	0.0000
15.0	0.0000	0.0000	0.0000
16.0	0.0000	0.0000	0.0000
17.0	0.0000	0.0000	0.0000
18.0	0.0000	0.0000	0.0000
19.0	0.0000	0.0000	0.0000
20.0	0.0000	0.0000	0.0000
21.0	0.0000	0.0000	0.0000
22.0	0.0000	0.0000	0.0000
23.0	0.0000	0.0000	0.0000
24.0	0.0000	0.0000	0.0000
25.0	0.0000	0.0000	0.0000
26.0	0.0000	0.0000	0.0000
27.0	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000
29.0	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
30.0	0.0000	0.0000	0.0000
31.0	0.0000	0.0000	0.0000
32.0	0.0000	0.0000	0.0000
33.0	0.0000	0.0000	0.0000
34.0	0.0000	0.0000	0.0000
35.0	0.0000	0.0000	0.0000
36.0	0.0000	0.0000	0.0000
37.0	0.0000	0.0000	0.0000
38.0	0.0000	0.0000	0.0000
39.0	0.0000	0.0000	0.0000
40.0	0.0000	0.0000	0.0000
41.0	0.0000	0.0000	0.0000
42.0	0.0000	0.0000	0.0000
43.0	0.0000	0.0000	0.0000
44.0	0.0000	0.0000	0.0000
45.0	0.0000	0.0000	0.0000
46.0	0.0000	0.0000	0.0000
47.0	0.0000	0.0000	0.0000
48.0	0.0000	0.0000	0.0000
49.0	0.0000	0.0000	0.0000
50.0	0.0000	0.0000	0.0000
51.0	0.0000	0.0000	0.0000
52.0	0.0000	0.0000	0.0000
53.0	0.0000	0.0000	0.0000
54.0	0.0000	0.0000	0.0000
55.0	0.0000	0.0000	0.0000
56.0	0.0000	0.0000	0.0000
57.0	0.0000	0.0000	0.0000
58.0	0.0000	0.0000	0.0000
59.0	0.0000	0.0000	0.0000
60.0	0.0000	0.0000	0.0000
61.0	0.0000	0.0000	0.0000
62.0	0.0000	0.0000	0.0000
63.0	0.0000	0.0000	0.0000
64.0	0.0000	0.0000	0.0000
65.0	0.0000	0.0000	0.0000
66.0	0.0000	0.0000	0.0000
67.0	0.0000	0.0000	0.0000
68.0	0.0000	0.0000	0.0000
69.0	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70.0	0.0000	0.0000	0.0000
71.0	0.0000	0.0000	0.0000
72.0	0.0000	0.0000	0.0000
73.0	0.0000	0.0000	0.0000
74.0	0.0000	0.0000	0.0000
75.0	0.0000	0.0000	0.0000
76.0	0.0000	0.0000	0.0000
77.0	0.0000	0.0000	0.0000
78.0	0.0000	0.0000	0.0000
79.0	0.0000	0.0000	0.0000
80.0	0.0000	0.0000	0.0000
81.0	0.0000	0.0000	0.0000
82.0	0.0000	0.0000	0.0000
83.0	0.0000	0.0000	0.0000
84.0	0.0000	0.0000	0.0000
85.0	0.0000	0.0000	0.0000
86.0	0.0000	0.0000	0.0000
87.0	0.0000	0.0000	0.0000
88.0	0.0000	0.0000	0.0000
89.0	0.0000	0.0000	0.0000
90.0	0.0000	0.0000	0.0000
91.0	0.0000	0.0000	0.0000
92.0	0.0000	0.0000	0.0000
93.0	0.0000	0.0000	0.0000
94.0	0.0000	0.0000	0.0000
95.0	0.0000	0.0000	0.0000
96.0	0.0000	0.0000	0.0000
97.0	0.0000	0.0000	0.0000
98.0	0.0000	0.0000	0.0000
99.0	0.0000	0.0000	0.0000
100.0	0.0000	0.0000	0.0000
101.0	0.0000	0.0000	0.0000
102.0	0.0000	0.0000	0.0000
103.0	0.0000	0.0000	0.0000
104.0	0.0000	0.0000	0.0000
105.0	0.0000	0.0000	0.0000
106.0	0.0000	0.0000	0.0000
107.0	0.0000	0.0000	0.0000
108.0	0.0000	0.0000	0.0000
109.0	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
110.0	0.0000	0.0000	0.0000
111.0	0.0000	0.0000	0.0000
112.0	0.0000	0.0000	0.0000
113.0	0.0000	0.0000	0.0000
114.0	0.0000	0.0000	0.0000
115.0	0.0000	0.0000	0.0000
116.0	0.0000	0.0000	0.0000
117.0	0.0000	0.0000	0.0000
118.0	0.0000	0.0000	0.0000
119.0	0.0000	0.0000	0.0000
120.0	0.0000	0.0000	0.0000
121.0	0.0000	0.0000	0.0000
122.0	0.0000	0.0000	0.0000
123.0	0.0000	0.0000	0.0000
124.0	0.0000	0.0000	0.0000
125.0	0.0000	0.0000	0.0000
126.0	0.0000	0.0000	0.0000
127.0	0.0000	0.0000	0.0000
128.0	0.0000	0.0000	0.0000
129.0	0.0000	0.0001	0.0001
130.0	0.0000	0.0001	0.0001
131.0	0.0000	0.0001	0.0001
132.0	0.0000	0.0001	0.0001
133.0	0.0000	0.0002	0.0002
134.0	0.0000	0.0003	0.0003
135.0	0.0000	0.0003	0.0003
136.0	0.0000	0.0005	0.0005
137.0	0.0000	0.0006	0.0006
138.0	0.0000	0.0008	0.0008
139.0	0.0000	0.0011	0.0011
140.0	0.0000	0.0014	0.0014
141.0	0.0000	0.0018	0.0018
142.0	0.0000	0.0023	0.0023
143.0	0.0000	0.0029	0.0029
144.0	0.0000	0.0037	0.0037
145.0	0.0000	0.0047	0.0047
146.0	0.0000	0.0059	0.0059
147.0	0.0000	0.0073	0.0073
148.0	0.0000	0.0090	0.0090
149.0	0.0000	0.0111	0.0111

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
150.0	0.0000	0.0136	0.0136
151.0	0.0000	0.0166	0.0166
152.0	0.0000	0.0200	0.0200
153.0	0.0000	0.0241	0.0241
154.0	0.0000	0.0288	0.0288
155.0	0.0000	0.0342	0.0342
156.0	0.0000	0.0405	0.0405
157.0	0.0000	0.0476	0.0476
158.0	0.0000	0.0557	0.0557
159.0	0.0000	0.0648	0.0648
160.0	0.0000	0.0749	0.0749
161.0	0.0000	0.0863	0.0863
162.0	0.0000	0.0988	0.0988
163.0	0.0000	0.1126	0.1126
164.0	0.0000	0.1277	0.1277
165.0	0.0000	0.1441	0.1441
166.0	0.0000	0.1618	0.1618
167.0	0.0000	0.1808	0.1808
168.0	0.0000	0.2012	0.2012
169.0	0.0000	0.2227	0.2227
170.0	0.0000	0.2455	0.2455
171.0	0.0000	0.2694	0.2694
172.0	0.0000	0.2944	0.2944
173.0	0.0000	0.3203	0.3203
174.0	0.0000	0.3470	0.3470
175.0	0.0000	0.3744	0.3744
176.0	0.0000	0.4023	0.4023
177.0	0.0000	0.4307	0.4307
178.0	0.0000	0.4592	0.4592
179.0	0.0000	0.4878	0.4878
180.0	0.5001	0.5162	0.5162
181.0	1.0000	0.5444	0.5444
182.0	1.0000	0.5720	0.5720
183.0	1.0000	0.5990	0.5990
184.0	1.0000	0.6252	0.6252
185.0	1.0000	0.6504	0.6504
186.0	1.0000	0.6745	0.6745
187.0	1.0000	0.6973	0.6973
188.0	1.0000	0.7187	0.7187
189.0	1.0000	0.7385	0.7385

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
190.0	1.0000	0.7567	0.7567
191.0	1.0000	0.7732	0.7732
192.0	1.0000	0.7878	0.7878
193.0	1.0000	0.8006	0.8006
194.0	1.0000	0.8114	0.8114
195.0	1.0000	0.8202	0.8202
196.0	1.0000	0.8270	0.8270
197.0	1.0000	0.8318	0.8318
198.0	1.0000	0.8345	0.8345
199.0	1.0000	0.8351	0.8351
200.0	1.0000	0.8338	0.8338
201.0	1.0000	0.8304	0.8304
202.0	1.0000	0.8250	0.8250
203.0	1.0000	0.8177	0.8177
204.0	1.0000	0.8085	0.8085
205.0	1.0000	0.7976	0.7976
206.0	1.0000	0.7848	0.7848
207.0	1.0000	0.7704	0.7704
208.0	1.0000	0.7544	0.7544
209.0	1.0000	0.7369	0.7369
210.0	1.0000	0.7181	0.7181
211.0	1.0000	0.6979	0.6979
212.0	1.0000	0.6766	0.6766
213.0	1.0000	0.6543	0.6543
214.0	1.0000	0.6310	0.6310
215.0	1.0000	0.6070	0.6070
216.0	1.0000	0.5824	0.5824
217.0	1.0000	0.5572	0.5572
218.0	1.0000	0.5316	0.5316
219.0	1.0000	0.5059	0.5059
220.0	0.4998	0.4800	0.4800
221.0	0.0000	0.4542	0.4542
222.0	0.0000	0.4285	0.4285
223.0	0.0000	0.4031	0.4031
224.0	0.0000	0.3781	0.3781
225.0	0.0000	0.3536	0.3536
226.0	0.0000	0.3297	0.3297
227.0	0.0000	0.3064	0.3064
228.0	0.0000	0.2840	0.2840
229.0	0.0000	0.2624	0.2624

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
230.0	0.0000	0.2417	0.2417
231.0	0.0000	0.2219	0.2219
232.0	0.0000	0.2031	0.2031
233.0	0.0000	0.1853	0.1853
234.0	0.0000	0.1685	0.1685
235.0	0.0000	0.1528	0.1528
236.0	0.0000	0.1381	0.1381
237.0	0.0000	0.1244	0.1244
238.0	0.0000	0.1117	0.1117
239.0	0.0000	0.0999	0.0999
240.0	0.0000	0.0891	0.0891
241.0	0.0000	0.0793	0.0793
242.0	0.0000	0.0702	0.0702
243.0	0.0000	0.0620	0.0620
244.0	0.0000	0.0546	0.0546
245.0	0.0000	0.0479	0.0479
246.0	0.0000	0.0419	0.0419
247.0	0.0000	0.0365	0.0365
248.0	0.0000	0.0317	0.0317
249.0	0.0000	0.0275	0.0275
250.0	0.0000	0.0237	0.0237
251.0	0.0000	0.0204	0.0204
252.0	0.0000	0.0175	0.0175
253.0	0.0000	0.0150	0.0150
254.0	0.0000	0.0127	0.0127
255.0	0.0000	0.0108	0.0108
256.0	0.0000	0.0091	0.0091
257.0	0.0000	0.0077	0.0077
258.0	0.0000	0.0065	0.0065
259.0	0.0000	0.0054	0.0054
260.0	0.0000	0.0045	0.0045
261.0	0.0000	0.0038	0.0038
262.0	0.0000	0.0031	0.0031
263.0	0.0000	0.0026	0.0026
264.0	0.0000	0.0021	0.0021
265.0	0.0000	0.0017	0.0017
266.0	0.0000	0.0014	0.0014
267.0	0.0000	0.0012	0.0012
268.0	0.0000	0.0009	0.0009
269.0	0.0000	0.0008	0.0008

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
270.0	0.0000	0.0006	0.0006
271.0	0.0000	0.0005	0.0005
272.0	0.0000	0.0004	0.0004
273.0	0.0000	0.0003	0.0003
274.0	0.0000	0.0003	0.0003
275.0	0.0000	0.0002	0.0002
276.0	0.0000	0.0002	0.0002
277.0	0.0000	0.0001	0.0001
278.0	0.0000	0.0001	0.0001
279.0	0.0000	0.0001	0.0001
280.0	0.0000	0.0001	0.0001
281.0	0.0000	0.0000	0.0000
282.0	0.0000	0.0000	0.0000
283.0	0.0000	0.0000	0.0000
284.0	0.0000	0.0000	0.0000
285.0	0.0000	0.0000	0.0000
286.0	0.0000	0.0000	0.0000
287.0	0.0000	0.0000	0.0000
288.0	0.0000	0.0000	0.0000
289.0	0.0000	0.0000	0.0000
290.0	0.0000	0.0000	0.0000
291.0	0.0000	0.0000	0.0000
292.0	0.0000	0.0000	0.0000
293.0	0.0000	0.0000	0.0000
294.0	0.0000	0.0000	0.0000
295.0	0.0000	0.0000	0.0000
296.0	0.0000	0.0000	0.0000
297.0	0.0000	0.0000	0.0000
298.0	0.0000	0.0000	0.0000
299.0	0.0000	0.0000	0.0000
300.0	0.0000	0.0000	0.0000
301.0	0.0000	0.0000	0.0000
302.0	0.0000	0.0000	0.0000
303.0	0.0000	0.0000	0.0000
304.0	0.0000	0.0000	0.0000
305.0	0.0000	0.0000	0.0000
306.0	0.0000	0.0000	0.0000
307.0	0.0000	0.0000	0.0000
308.0	0.0000	0.0000	0.0000
309.0	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
310.0	0.0000	0.0000	0.0000
311.0	0.0000	0.0000	0.0000
312.0	0.0000	0.0000	0.0000
313.0	0.0000	0.0000	0.0000
314.0	0.0000	0.0000	0.0000
315.0	0.0000	0.0000	0.0000
316.0	0.0000	0.0000	0.0000
317.0	0.0000	0.0000	0.0000
318.0	0.0000	0.0000	0.0000
319.0	0.0000	0.0000	0.0000
320.0	0.0000	0.0000	0.0000
321.0	0.0000	0.0000	0.0000
322.0	0.0000	0.0000	0.0000
323.0	0.0000	0.0000	0.0000
324.0	0.0000	0.0000	0.0000
325.0	0.0000	0.0000	0.0000
326.0	0.0000	0.0000	0.0000
327.0	0.0000	0.0000	0.0000
328.0	0.0000	0.0000	0.0000
329.0	0.0000	0.0000	0.0000
330.0	0.0000	0.0000	0.0000
331.0	0.0000	0.0000	0.0000
332.0	0.0000	0.0000	0.0000
333.0	0.0000	0.0000	0.0000
334.0	0.0000	0.0000	0.0000
335.0	0.0000	0.0000	0.0000
336.0	0.0000	0.0000	0.0000
337.0	0.0000	0.0000	0.0000
338.0	0.0000	0.0000	0.0000
339.0	0.0000	0.0000	0.0000
340.0	0.0000	0.0000	0.0000
341.0	0.0000	0.0000	0.0000
342.0	0.0000	0.0000	0.0000
343.0	0.0000	0.0000	0.0000
344.0	0.0000	0.0000	0.0000
345.0	0.0000	0.0000	0.0000
346.0	0.0000	0.0000	0.0000
347.0	0.0000	0.0000	0.0000
348.0	0.0000	0.0000	0.0000
349.0	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
350.0	0.0000	0.0000	0.0000
351.0	0.0000	0.0000	0.0000
352.0	0.0000	0.0000	0.0000
353.0	0.0000	0.0000	0.0000
354.0	0.0000	0.0000	0.0000
355.0	0.0000	0.0000	0.0000
356.0	0.0000	0.0000	0.0000
357.0	0.0000	0.0000	0.0000
358.0	0.0000	0.0000	0.0000
359.0	0.0000	0.0000	0.0000
360.0	0.0000	0.0000	0.0000
361.0	0.0000	0.0000	0.0000
362.0	0.0000	0.0000	0.0000
363.0	0.0000	0.0000	0.0000
364.0	0.0000	0.0000	0.0000
365.0	0.0000	0.0000	0.0000
366.0	0.0000	0.0000	0.0000
367.0	0.0000	0.0000	0.0000
368.0	0.0000	0.0000	0.0000
369.0	0.0000	0.0000	0.0000
370.0	0.0000	0.0000	0.0000
371.0	0.0000	0.0000	0.0000
372.0	0.0000	0.0000	0.0000
373.0	0.0000	0.0000	0.0000
374.0	0.0000	0.0000	0.0000
375.0	0.0000	0.0000	0.0000
376.0	0.0000	0.0000	0.0000
377.0	0.0000	0.0000	0.0000
378.0	0.0000	0.0000	0.0000
379.0	0.0000	0.0000	0.0000
380.0	0.0000	0.0000	0.0000
381.0	0.0000	0.0000	0.0000
382.0	0.0000	0.0000	0.0000
383.0	0.0000	0.0000	0.0000
384.0	0.0000	0.0000	0.0000
385.0	0.0000	0.0000	0.0000
386.0	0.0000	0.0000	0.0000
387.0	0.0000	0.0000	0.0000
388.0	0.0000	0.0000	0.0000
389.0	0.0000	0.0000	0.0000

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x	$A(x)$	P_{v1}	P_{v2}
390.0	0.0000	0.0000	0.0000
391.0	0.0000	0.0000	0.0000
392.0	0.0000	0.0000	0.0000
393.0	0.0000	0.0000	0.0000
394.0	0.0000	0.0000	0.0000
395.0	0.0000	0.0000	0.0000
396.0	0.0000	0.0000	0.0000
397.0	0.0000	0.0000	0.0000
398.0	0.0000	0.0000	0.0000
399.0	0.0000	0.0000	0.0000
400.0	0.0000	0.0000	0.0000

Table B.6.3: Output for Problem 6.1.1-L03

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0000	0.0000
5.0	0.0000	0.0000	0.0000
10.0	0.0000	0.0000	0.0000
15.0	0.0000	0.0000	0.0000
20.0	0.0000	0.0000	0.0000
25.0	0.0000	0.0000	0.0000
30.0	0.0000	0.0000	0.0000
35.0	0.0000	0.0000	0.0000
40.0	0.0000	0.0000	0.0000
45.0	0.0000	0.0000	0.0000
50.0	0.0000	0.0000	0.0000
55.0	0.0000	0.0000	0.0000
60.0	0.0000	0.0000	0.0000
65.0	0.0000	0.0000	0.0000
70.0	0.0000	0.0000	0.0000
75.0	0.0000	0.0001	0.0001
80.0	0.0000	0.0002	0.0002
85.0	0.0000	0.0004	0.0004
90.0	0.0000	0.0007	0.0007
95.0	0.0000	0.0015	0.0015
100.0	0.0000	0.0027	0.0027
105.0	0.0000	0.0049	0.0049
110.0	0.0000	0.0085	0.0085
115.0	0.0000	0.0139	0.0139

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x	$A(x)$	P_{v1}	P_{v2}
120.0	0.0000	0.0221	0.0221
125.0	0.0000	0.0337	0.0337
130.0	0.0000	0.0495	0.0495
135.0	0.0000	0.0702	0.0702
140.0	0.0000	0.0963	0.0963
145.0	0.0000	0.1279	0.1279
150.0	0.0000	0.1647	0.1647
155.0	0.0000	0.2058	0.2058
160.0	0.0000	0.2499	0.2499
165.0	0.0000	0.2952	0.2952
170.0	0.0000	0.3395	0.3395
175.0	0.0000	0.3805	0.3805
180.0	0.5001	0.4159	0.4159
185.0	1.0000	0.4438	0.4438
190.0	1.0000	0.4627	0.4627
195.0	1.0000	0.4716	0.4716
200.0	1.0000	0.4702	0.4702
205.0	1.0000	0.4589	0.4589
210.0	1.0000	0.4386	0.4386
215.0	1.0000	0.4109	0.4109
220.0	0.4998	0.3773	0.3773
225.0	0.0000	0.3399	0.3399
230.0	0.0000	0.3005	0.3005
235.0	0.0000	0.2607	0.2607
240.0	0.0000	0.2222	0.2222
245.0	0.0000	0.1861	0.1861
250.0	0.0000	0.1531	0.1531
255.0	0.0000	0.1238	0.1238
260.0	0.0000	0.0985	0.0985
265.0	0.0000	0.0771	0.0771
270.0	0.0000	0.0593	0.0593
275.0	0.0000	0.0450	0.0450
280.0	0.0000	0.0335	0.0335
285.0	0.0000	0.0246	0.0246
290.0	0.0000	0.0178	0.0178
295.0	0.0000	0.0127	0.0127
300.0	0.0000	0.0089	0.0089
305.0	0.0000	0.0062	0.0062
310.0	0.0000	0.0042	0.0042
315.0	0.0000	0.0028	0.0028

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x	$A(x)$	P_{v1}	P_{v2}
320.0	0.0000	0.0019	0.0019
325.0	0.0000	0.0012	0.0012
330.0	0.0000	0.0008	0.0008
335.0	0.0000	0.0005	0.0005
340.0	0.0000	0.0003	0.0003
345.0	0.0000	0.0002	0.0002
350.0	0.0000	0.0001	0.0001
355.0	0.0000	0.0001	0.0001
360.0	0.0000	0.0000	0.0000
365.0	0.0000	0.0000	0.0000
370.0	0.0000	0.0000	0.0000
375.0	0.0000	0.0000	0.0000
380.0	0.0000	0.0000	0.0000
385.0	0.0000	0.0000	0.0000
390.0	0.0000	0.0000	0.0000
395.0	0.0000	0.0000	0.0000
400.0	0.0000	0.0000	0.0000

Table B.6.4: Output for Problem 6.1.1-L04

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0000	0.0000
10.0	0.0000	0.0000	0.0000
20.0	0.0000	0.0000	0.0000
30.0	0.0000	0.0000	0.0000
40.0	0.0000	0.0001	0.0001
50.0	0.0000	0.0003	0.0003
60.0	0.0000	0.0010	0.0010
70.0	0.0000	0.0027	0.0027
80.0	0.0000	0.0066	0.0066
90.0	0.0000	0.0140	0.0140
100.0	0.0000	0.0270	0.0270
110.0	0.0000	0.0475	0.0475
120.0	0.0000	0.0768	0.0768
130.0	0.0000	0.1151	0.1151
140.0	0.0000	0.1606	0.1606
150.0	0.0000	0.2098	0.2098
160.0	0.0000	0.2579	0.2579
170.0	0.0000	0.2993	0.2993

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x	$A(x)$	P_{v1}	P_{v2}
180.0	0.5001	0.3292	0.3292
190.0	1.0000	0.3443	0.3443
200.0	1.0000	0.3432	0.3432
210.0	1.0000	0.3269	0.3269
220.0	0.4998	0.2983	0.2983
230.0	0.0000	0.2612	0.2612
240.0	0.0000	0.2199	0.2199
250.0	0.0000	0.1784	0.1784
260.0	0.0000	0.1395	0.1395
270.0	0.0000	0.1054	0.1054
280.0	0.0000	0.0771	0.0771
290.0	0.0000	0.0546	0.0546
300.0	0.0000	0.0374	0.0374
310.0	0.0000	0.0249	0.0249
320.0	0.0000	0.0161	0.0161
330.0	0.0000	0.0101	0.0101
340.0	0.0000	0.0062	0.0062
350.0	0.0000	0.0037	0.0037
360.0	0.0000	0.0021	0.0021
370.0	0.0000	0.0012	0.0012
380.0	0.0000	0.0007	0.0007
390.0	0.0000	0.0004	0.0004
400.0	0.0000	0.0002	0.0002

Table B.6.5: Output for Problem 6.1.1-L05

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0000	0.0000
15.0	0.0000	0.0001	0.0001
30.0	0.0000	0.0005	0.0005
45.0	0.0000	0.0020	0.0020
60.0	0.0000	0.0065	0.0065
75.0	0.0000	0.0169	0.0169
90.0	0.0000	0.0365	0.0365
105.0	0.0000	0.0679	0.0679
120.0	0.0000	0.1107	0.1107
135.0	0.0000	0.1611	0.1611
150.0	0.0000	0.2116	0.2116
165.0	0.0000	0.2536	0.2536

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x	$A(x)$	P_{v1}	P_{v2}
180.0	0.5001	0.2795	0.2795
195.0	1.0000	0.2854	0.2854
210.0	1.0000	0.2716	0.2716
225.0	0.0000	0.2420	0.2420
240.0	0.0000	0.2028	0.2028
255.0	0.0000	0.1606	0.1606
270.0	0.0000	0.1205	0.1205
285.0	0.0000	0.0859	0.0859
300.0	0.0000	0.0584	0.0584
315.0	0.0000	0.0379	0.0379
330.0	0.0000	0.0236	0.0236
345.0	0.0000	0.0140	0.0140
360.0	0.0000	0.0080	0.0080
375.0	0.0000	0.0044	0.0044
390.0	0.0000	0.0024	0.0024
405.0	0.0000	0.0012	0.0012

Table B.6.6: Output for Problem 6.1.1-L06

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0001	0.0001
20.0	0.0000	0.0010	0.0010
40.0	0.0000	0.0050	0.0050
60.0	0.0000	0.0164	0.0164
80.0	0.0000	0.0400	0.0400
100.0	0.0000	0.0783	0.0783
120.0	0.0000	0.1282	0.1282
140.0	0.0000	0.1807	0.1807
160.0	0.0000	0.2235	0.2235
180.0	0.5001	0.2467	0.2467
200.0	1.0000	0.2459	0.2459
220.0	0.4998	0.2235	0.2235
240.0	0.0000	0.1870	0.1870
260.0	0.0000	0.1448	0.1448
280.0	0.0000	0.1045	0.1045
300.0	0.0000	0.0707	0.0707
320.0	0.0000	0.0449	0.0449
340.0	0.0000	0.0270	0.0270
360.0	0.0000	0.0153	0.0153

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x	$A(x)$	P_{v1}	P_{v2}
380.0	0.0000	0.0083	0.0083
400.0	0.0000	0.0043	0.0043

Table B.6.7: Output for Problem 6.1.1-L07

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0018	0.0018
30.0	0.0000	0.0119	0.0119
60.0	0.0000	0.0390	0.0390
90.0	0.0000	0.0853	0.0853
120.0	0.0000	0.1404	0.1404
150.0	0.0000	0.1854	0.1854
180.0	0.5001	0.2049	0.2049
210.0	1.0000	0.1947	0.1947
240.0	0.0000	0.1624	0.1624
270.0	0.0000	0.1209	0.1209
300.0	0.0000	0.0813	0.0813
330.0	0.0000	0.0498	0.0498
360.0	0.0000	0.0281	0.0281
390.0	0.0000	0.0147	0.0147

Table B.6.8: Output for Problem 6.1.1-L08

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0070	0.0070
40.0	0.0000	0.0346	0.0346
80.0	0.0000	0.0852	0.0852
120.0	0.0000	0.1406	0.1406
160.0	0.0000	0.1745	0.1745
200.0	1.0000	0.1739	0.1739
240.0	0.0000	0.1450	0.1450
280.0	0.0000	0.1039	0.1039
320.0	0.0000	0.0654	0.0654
360.0	0.0000	0.0367	0.0367
400.0	0.0000	0.0186	0.0186

Table B.6.9: Output for Problem 6.1.1-L09

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0151	0.0151
50.0	0.0000	0.0594	0.0594
100.0	0.0000	0.1176	0.1176
150.0	0.0000	0.1557	0.1557
200.0	1.0000	0.1552	0.1552
250.0	0.0000	0.1242	0.1242
300.0	0.0000	0.0831	0.0831
350.0	0.0000	0.0478	0.0478
400.0	0.0000	0.0242	0.0242

Table B.6.10: Output for Problem 6.1.1-L10

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0000	0.0242	0.0242
60.0	0.0000	0.0799	0.0799
120.0	0.0000	0.1321	0.1321
180.0	0.5001	0.1461	0.1461
240.0	0.0000	0.1216	0.1216
300.0	0.0000	0.0813	0.0813
360.0	0.0000	0.0454	0.0454
420.0	0.0000	0.0218	0.0218

Table B.6.11: Output for Problem 6.1.2-L01

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0149	0.0149
0.1	0.0149	0.0149	0.0149
0.2	0.0150	0.0150	0.0150
0.3	0.0150	0.0150	0.0150
0.4	0.0150	0.0150	0.0150
0.5	0.0151	0.0151	0.0151
0.6	0.0151	0.0151	0.0151
0.7	0.0151	0.0151	0.0151
0.8	0.0152	0.0152	0.0152
0.9	0.0152	0.0152	0.0152

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x	$A(x)$	P_{v1}	P_{v2}
1.0	0.0153	0.0153	0.0153
1.1	0.0153	0.0153	0.0153
1.2	0.0153	0.0153	0.0153
1.3	0.0154	0.0154	0.0154
1.4	0.0154	0.0154	0.0154
1.5	0.0154	0.0155	0.0155
1.6	0.0155	0.0155	0.0155
1.7	0.0155	0.0155	0.0155
1.8	0.0156	0.0156	0.0156
1.9	0.0156	0.0156	0.0156
2.0	0.0156	0.0156	0.0156
2.1	0.0157	0.0157	0.0157
2.2	0.0157	0.0157	0.0157
2.3	0.0158	0.0158	0.0158
2.4	0.0158	0.0158	0.0158
2.5	0.0158	0.0158	0.0158
2.6	0.0159	0.0159	0.0159
2.7	0.0159	0.0159	0.0159
2.8	0.0159	0.0160	0.0160
2.9	0.0160	0.0160	0.0160
3.0	0.0160	0.0160	0.0160
3.1	0.0161	0.0161	0.0161
3.2	0.0161	0.0161	0.0161
3.3	0.0161	0.0162	0.0162
3.4	0.0162	0.0162	0.0162
3.5	0.0162	0.0162	0.0162
3.6	0.0163	0.0163	0.0163
3.7	0.0163	0.0163	0.0163
3.8	0.0163	0.0164	0.0164
3.9	0.0164	0.0164	0.0164
4.0	0.0164	0.0164	0.0164
4.1	0.0165	0.0165	0.0165
4.2	0.0165	0.0165	0.0165
4.3	0.0165	0.0166	0.0166
4.4	0.0166	0.0166	0.0166
4.5	0.0166	0.0166	0.0166
4.6	0.0167	0.0167	0.0167
4.7	0.0167	0.0167	0.0167
4.8	0.0168	0.0168	0.0168
4.9	0.0168	0.0168	0.0168

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x	$A(x)$	P_{v1}	P_{v2}
5.0	0.0168	0.0168	0.0168
5.1	0.0169	0.0169	0.0169
5.2	0.0169	0.0169	0.0169
5.3	0.0170	0.0170	0.0170
5.4	0.0170	0.0170	0.0170
5.5	0.0170	0.0170	0.0170
5.6	0.0171	0.0171	0.0171
5.7	0.0171	0.0171	0.0171
5.8	0.0172	0.0172	0.0172
5.9	0.0172	0.0172	0.0172
6.0	0.0172	0.0173	0.0173
6.1	0.0173	0.0173	0.0173
6.2	0.0173	0.0173	0.0173
6.3	0.0174	0.0174	0.0174
6.4	0.0174	0.0174	0.0174
6.5	0.0175	0.0175	0.0175
6.6	0.0175	0.0175	0.0175
6.7	0.0175	0.0176	0.0176
6.8	0.0176	0.0176	0.0176
6.9	0.0176	0.0176	0.0176
7.0	0.0177	0.0177	0.0177
7.1	0.0177	0.0177	0.0177
7.2	0.0178	0.0178	0.0178
7.3	0.0178	0.0178	0.0178
7.4	0.0178	0.0179	0.0179
7.5	0.0179	0.0179	0.0179
7.6	0.0179	0.0179	0.0179
7.7	0.0180	0.0180	0.0180
7.8	0.0180	0.0180	0.0180
7.9	0.0181	0.0181	0.0181
8.0	0.0181	0.0181	0.0181
8.1	0.0181	0.0182	0.0182
8.2	0.0182	0.0182	0.0182
8.3	0.0182	0.0182	0.0182
8.4	0.0183	0.0183	0.0183
8.5	0.0183	0.0183	0.0183
8.6	0.0184	0.0184	0.0184
8.7	0.0184	0.0184	0.0184
8.8	0.0184	0.0185	0.0185
8.9	0.0185	0.0185	0.0185

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x	$A(x)$	P_{v1}	P_{v2}
9.0	0.0185	0.0185	0.0185
9.1	0.0186	0.0186	0.0186
9.2	0.0186	0.0186	0.0186
9.3	0.0187	0.0187	0.0187
9.4	0.0187	0.0187	0.0187
9.5	0.0188	0.0188	0.0188
9.6	0.0188	0.0188	0.0188
9.7	0.0188	0.0189	0.0189
9.8	0.0189	0.0189	0.0189
9.9	0.0189	0.0190	0.0190
10.0	0.0190	0.0190	0.0190
10.1	0.0190	0.0190	0.0190
10.2	0.0191	0.0191	0.0191
10.3	0.0191	0.0191	0.0191
10.4	0.0192	0.0192	0.0192
10.5	0.0192	0.0192	0.0192
10.6	0.0193	0.0193	0.0193
10.7	0.0193	0.0193	0.0193
10.8	0.0193	0.0194	0.0194
10.9	0.0194	0.0194	0.0194
11.0	0.0194	0.0195	0.0195
11.1	0.0195	0.0195	0.0195
11.2	0.0195	0.0195	0.0195
11.3	0.0196	0.0196	0.0196
11.4	0.0196	0.0196	0.0196
11.5	0.0197	0.0197	0.0197
11.6	0.0197	0.0197	0.0197
11.7	0.0198	0.0198	0.0198
11.8	0.0198	0.0198	0.0198
11.9	0.0199	0.0199	0.0199
12.0	0.0199	0.0199	0.0199
12.1	0.0199	0.0200	0.0200
12.2	0.0200	0.0200	0.0200
12.3	0.0200	0.0201	0.0201
12.4	0.0201	0.0201	0.0201
12.5	0.0201	0.0201	0.0201
12.6	0.0202	0.0202	0.0202
12.7	0.0202	0.0202	0.0202
12.8	0.0203	0.0203	0.0203
12.9	0.0203	0.0203	0.0203

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
13.0	0.0204	0.0204	0.0204
13.1	0.0204	0.0204	0.0204
13.2	0.0205	0.0205	0.0205
13.3	0.0205	0.0205	0.0205
13.4	0.0206	0.0206	0.0206
13.5	0.0206	0.0206	0.0206
13.6	0.0207	0.0207	0.0207
13.7	0.0207	0.0207	0.0207
13.8	0.0208	0.0208	0.0208
13.9	0.0208	0.0208	0.0208
14.0	0.0209	0.0209	0.0209
14.1	0.0209	0.0209	0.0209
14.2	0.0209	0.0210	0.0210
14.3	0.0210	0.0210	0.0210
14.4	0.0210	0.0211	0.0211
14.5	0.0211	0.0211	0.0211
14.6	0.0211	0.0212	0.0212
14.7	0.0212	0.0212	0.0212
14.8	0.0212	0.0213	0.0213
14.9	0.0213	0.0213	0.0213
15.0	0.0213	0.0214	0.0214
15.1	0.0214	0.0214	0.0214
15.2	0.0214	0.0215	0.0215
15.3	0.0215	0.0215	0.0215
15.4	0.0215	0.0216	0.0216
15.5	0.0216	0.0216	0.0216
15.6	0.0216	0.0217	0.0217
15.7	0.0217	0.0217	0.0217
15.8	0.0217	0.0218	0.0218
15.9	0.0218	0.0218	0.0218
16.0	0.0218	0.0219	0.0219
16.1	0.0219	0.0219	0.0219
16.2	0.0219	0.0220	0.0220
16.3	0.0220	0.0220	0.0220
16.4	0.0220	0.0221	0.0221
16.5	0.0221	0.0221	0.0221
16.6	0.0221	0.0222	0.0222
16.7	0.0222	0.0222	0.0222
16.8	0.0222	0.0223	0.0223
16.9	0.0223	0.0223	0.0223

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
17.0	0.0223	0.0224	0.0224
17.1	0.0224	0.0224	0.0224
17.2	0.0224	0.0225	0.0225
17.3	0.0225	0.0225	0.0225
17.4	0.0225	0.0226	0.0226
17.5	0.0226	0.0226	0.0226
17.6	0.0227	0.0227	0.0227
17.7	0.0227	0.0227	0.0227
17.8	0.0228	0.0228	0.0228
17.9	0.0228	0.0228	0.0228
18.0	0.0229	0.0229	0.0229
18.1	0.0229	0.0229	0.0229
18.2	0.0230	0.0230	0.0230
18.3	0.0230	0.0230	0.0230
18.4	0.0231	0.0231	0.0231
18.5	0.0231	0.0231	0.0231
18.6	0.0232	0.0232	0.0232
18.7	0.0232	0.0232	0.0232
18.8	0.0233	0.0233	0.0233
18.9	0.0233	0.0233	0.0233
19.0	0.0234	0.0234	0.0234
19.1	0.0234	0.0235	0.0235
19.2	0.0235	0.0235	0.0235
19.3	0.0235	0.0236	0.0236
19.4	0.0236	0.0236	0.0236
19.5	0.0236	0.0237	0.0237
19.6	0.0237	0.0237	0.0237
19.7	0.0238	0.0238	0.0238
19.8	0.0238	0.0238	0.0238
19.9	0.0239	0.0239	0.0239
20.0	0.0239	0.0239	0.0239
20.1	0.0240	0.0240	0.0240
20.2	0.0240	0.0240	0.0240
20.3	0.0241	0.0241	0.0241
20.4	0.0241	0.0241	0.0241
20.5	0.0242	0.0242	0.0242
20.6	0.0242	0.0243	0.0243
20.7	0.0243	0.0243	0.0243
20.8	0.0243	0.0244	0.0244
20.9	0.0244	0.0244	0.0244

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x	$A(x)$	P_{v1}	P_{v2}
21.0	0.0245	0.0245	0.0245
21.1	0.0245	0.0245	0.0245
21.2	0.0246	0.0246	0.0246
21.3	0.0246	0.0246	0.0246
21.4	0.0247	0.0247	0.0247
21.5	0.0247	0.0247	0.0247
21.6	0.0248	0.0248	0.0248
21.7	0.0248	0.0249	0.0249
21.8	0.0249	0.0249	0.0249
21.9	0.0250	0.0250	0.0250
22.0	0.0250	0.0250	0.0250
22.1	0.0251	0.0251	0.0251
22.2	0.0251	0.0251	0.0251
22.3	0.0252	0.0252	0.0252
22.4	0.0252	0.0252	0.0252
22.5	0.0253	0.0253	0.0253
22.6	0.0253	0.0254	0.0254
22.7	0.0254	0.0254	0.0254
22.8	0.0255	0.0255	0.0255
22.9	0.0255	0.0255	0.0255
23.0	0.0256	0.0256	0.0256
23.1	0.0256	0.0256	0.0256
23.2	0.0257	0.0257	0.0257
23.3	0.0257	0.0258	0.0258
23.4	0.0258	0.0258	0.0258
23.5	0.0259	0.0259	0.0259
23.6	0.0259	0.0259	0.0259
23.7	0.0260	0.0260	0.0260
23.8	0.0260	0.0260	0.0260
23.9	0.0261	0.0261	0.0261
24.0	0.0261	0.0262	0.0262
24.1	0.0262	0.0262	0.0262
24.2	0.0263	0.0263	0.0263
24.3	0.0263	0.0263	0.0263
24.4	0.0264	0.0264	0.0264
24.5	0.0264	0.0264	0.0264
24.6	0.0265	0.0265	0.0265
24.7	0.0265	0.0266	0.0266
24.8	0.0266	0.0266	0.0266
24.9	0.0267	0.0267	0.0267

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x	$A(x)$	P_{v1}	P_{v2}
25.0	0.0267	0.0267	0.0267
25.1	0.0268	0.0268	0.0268
25.2	0.0268	0.0269	0.0269
25.3	0.0269	0.0269	0.0269
25.4	0.0270	0.0270	0.0270
25.5	0.0270	0.0270	0.0270
25.6	0.0271	0.0271	0.0271
25.7	0.0271	0.0271	0.0271
25.8	0.0272	0.0272	0.0272
25.9	0.0272	0.0273	0.0273
26.0	0.0273	0.0273	0.0273
26.1	0.0274	0.0274	0.0274
26.2	0.0274	0.0274	0.0274
26.3	0.0275	0.0275	0.0275
26.4	0.0275	0.0276	0.0276
26.5	0.0276	0.0276	0.0276
26.6	0.0277	0.0277	0.0277
26.7	0.0277	0.0277	0.0277
26.8	0.0278	0.0278	0.0278
26.9	0.0278	0.0279	0.0279
27.0	0.0279	0.0279	0.0279
27.1	0.0280	0.0280	0.0280
27.2	0.0280	0.0280	0.0280
27.3	0.0281	0.0281	0.0281
27.4	0.0281	0.0282	0.0282
27.5	0.0282	0.0282	0.0282
27.6	0.0283	0.0283	0.0283
27.7	0.0283	0.0283	0.0283
27.8	0.0284	0.0284	0.0284
27.9	0.0284	0.0285	0.0285
28.0	0.0285	0.0285	0.0285
28.1	0.0286	0.0286	0.0286
28.2	0.0286	0.0286	0.0286
28.3	0.0287	0.0287	0.0287
28.4	0.0288	0.0288	0.0288
28.5	0.0288	0.0288	0.0288
28.6	0.0289	0.0289	0.0289
28.7	0.0289	0.0290	0.0290
28.8	0.0290	0.0290	0.0290
28.9	0.0291	0.0291	0.0291

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x	$A(x)$	P_{v1}	P_{v2}
29.0	0.0291	0.0291	0.0291
29.1	0.0292	0.0292	0.0292
29.2	0.0293	0.0293	0.0293
29.3	0.0293	0.0293	0.0293
29.4	0.0294	0.0294	0.0294
29.5	0.0294	0.0295	0.0295
29.6	0.0295	0.0295	0.0295
29.7	0.0296	0.0296	0.0296
29.8	0.0296	0.0296	0.0296
29.9	0.0297	0.0297	0.0297
30.0	0.0298	0.0298	0.0298
30.1	0.0298	0.0298	0.0298
30.2	0.0299	0.0299	0.0299
30.3	0.0299	0.0300	0.0300
30.4	0.0300	0.0300	0.0300
30.5	0.0301	0.0301	0.0301
30.6	0.0301	0.0302	0.0302
30.7	0.0302	0.0302	0.0302
30.8	0.0303	0.0303	0.0303
30.9	0.0303	0.0303	0.0303
31.0	0.0304	0.0304	0.0304
31.1	0.0305	0.0305	0.0305
31.2	0.0305	0.0305	0.0305
31.3	0.0306	0.0306	0.0306
31.4	0.0306	0.0307	0.0307
31.5	0.0307	0.0307	0.0307
31.6	0.0308	0.0308	0.0308
31.7	0.0308	0.0309	0.0309
31.8	0.0309	0.0309	0.0309
31.9	0.0310	0.0310	0.0310
32.0	0.0310	0.0311	0.0311
32.1	0.0311	0.0311	0.0311
32.2	0.0312	0.0312	0.0312
32.3	0.0312	0.0312	0.0312
32.4	0.0313	0.0313	0.0313
32.5	0.0314	0.0314	0.0314
32.6	0.0314	0.0314	0.0314
32.7	0.0315	0.0315	0.0315
32.8	0.0316	0.0316	0.0316
32.9	0.0316	0.0316	0.0316

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x	$A(x)$	P_{v1}	P_{v2}
33.0	0.0317	0.0317	0.0317
33.1	0.0318	0.0318	0.0318
33.2	0.0318	0.0318	0.0318
33.3	0.0319	0.0319	0.0319
33.4	0.0320	0.0320	0.0320
33.5	0.0320	0.0320	0.0320
33.6	0.0321	0.0321	0.0321
33.7	0.0322	0.0322	0.0322
33.8	0.0322	0.0322	0.0322
33.9	0.0323	0.0323	0.0323
34.0	0.0324	0.0324	0.0324
34.1	0.0324	0.0324	0.0324
34.2	0.0325	0.0325	0.0325
34.3	0.0326	0.0326	0.0326
34.4	0.0326	0.0326	0.0326
34.5	0.0327	0.0327	0.0327
34.6	0.0328	0.0328	0.0328
34.7	0.0328	0.0328	0.0328
34.8	0.0329	0.0329	0.0329
34.9	0.0330	0.0330	0.0330
35.0	0.0330	0.0330	0.0330
35.1	0.0331	0.0331	0.0331
35.2	0.0332	0.0332	0.0332
35.3	0.0332	0.0333	0.0333
35.4	0.0333	0.0333	0.0333
35.5	0.0334	0.0334	0.0334
35.6	0.0334	0.0335	0.0335
35.7	0.0335	0.0335	0.0335
35.8	0.0336	0.0336	0.0336
35.9	0.0336	0.0337	0.0337
36.0	0.0337	0.0337	0.0337
36.1	0.0338	0.0338	0.0338
36.2	0.0338	0.0339	0.0339
36.3	0.0339	0.0339	0.0339
36.4	0.0340	0.0340	0.0340
36.5	0.0341	0.0341	0.0341
36.6	0.0341	0.0341	0.0341
36.7	0.0342	0.0342	0.0342
36.8	0.0343	0.0343	0.0343
36.9	0.0343	0.0344	0.0344

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x	$A(x)$	P_{v1}	P_{v2}
37.0	0.0344	0.0344	0.0344
37.1	0.0345	0.0345	0.0345
37.2	0.0345	0.0346	0.0346
37.3	0.0346	0.0346	0.0346
37.4	0.0347	0.0347	0.0347
37.5	0.0348	0.0348	0.0348
37.6	0.0348	0.0348	0.0348
37.7	0.0349	0.0349	0.0349
37.8	0.0350	0.0350	0.0350
37.9	0.0350	0.0351	0.0351
38.0	0.0351	0.0351	0.0351
38.1	0.0352	0.0352	0.0352
38.2	0.0353	0.0353	0.0353
38.3	0.0353	0.0353	0.0353
38.4	0.0354	0.0354	0.0354
38.5	0.0355	0.0355	0.0355
38.6	0.0355	0.0356	0.0356
38.7	0.0356	0.0356	0.0356
38.8	0.0357	0.0357	0.0357
38.9	0.0358	0.0358	0.0358
39.0	0.0358	0.0358	0.0358
39.1	0.0359	0.0359	0.0359
39.2	0.0360	0.0360	0.0360
39.3	0.0360	0.0361	0.0361
39.4	0.0361	0.0361	0.0361
39.5	0.0362	0.0362	0.0362
39.6	0.0363	0.0363	0.0363
39.7	0.0363	0.0363	0.0363
39.8	0.0364	0.0364	0.0364
39.9	0.0365	0.0365	0.0365
40.0	0.0365	0.0366	0.0366
40.1	0.0366	0.0366	0.0366
40.2	0.0367	0.0367	0.0367
40.3	0.0368	0.0368	0.0368
40.4	0.0368	0.0369	0.0369
40.5	0.0369	0.0369	0.0369
40.6	0.0370	0.0370	0.0370
40.7	0.0371	0.0371	0.0371
40.8	0.0371	0.0372	0.0372
40.9	0.0372	0.0372	0.0372

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x	$A(x)$	P_{v1}	P_{v2}
41.0	0.0373	0.0373	0.0373
41.1	0.0374	0.0374	0.0374
41.2	0.0374	0.0374	0.0374
41.3	0.0375	0.0375	0.0375
41.4	0.0376	0.0376	0.0376
41.5	0.0377	0.0377	0.0377
41.6	0.0377	0.0377	0.0377
41.7	0.0378	0.0378	0.0378
41.8	0.0379	0.0379	0.0379
41.9	0.0379	0.0380	0.0380
42.0	0.0380	0.0380	0.0380
42.1	0.0381	0.0381	0.0381
42.2	0.0382	0.0382	0.0382
42.3	0.0382	0.0383	0.0383
42.4	0.0383	0.0383	0.0383
42.5	0.0384	0.0384	0.0384
42.6	0.0385	0.0385	0.0385
42.7	0.0385	0.0386	0.0386
42.8	0.0386	0.0386	0.0386
42.9	0.0387	0.0387	0.0387
43.0	0.0388	0.0388	0.0388
43.1	0.0389	0.0389	0.0389
43.2	0.0389	0.0390	0.0390
43.3	0.0390	0.0390	0.0390
43.4	0.0391	0.0391	0.0391
43.5	0.0392	0.0392	0.0392
43.6	0.0392	0.0393	0.0393
43.7	0.0393	0.0393	0.0393
43.8	0.0394	0.0394	0.0394
43.9	0.0395	0.0395	0.0395
44.0	0.0395	0.0396	0.0396
44.1	0.0396	0.0396	0.0396
44.2	0.0397	0.0397	0.0397
44.3	0.0398	0.0398	0.0398
44.4	0.0398	0.0399	0.0399
44.5	0.0399	0.0399	0.0399
44.6	0.0400	0.0400	0.0400
44.7	0.0401	0.0401	0.0401
44.8	0.0402	0.0402	0.0402
44.9	0.0402	0.0403	0.0403

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x	$A(x)$	P_{v1}	P_{v2}
45.0	0.0403	0.0403	0.0403
45.1	0.0404	0.0404	0.0404
45.2	0.0405	0.0405	0.0405
45.3	0.0405	0.0406	0.0406
45.4	0.0406	0.0406	0.0406
45.5	0.0407	0.0407	0.0407
45.6	0.0408	0.0408	0.0408
45.7	0.0409	0.0409	0.0409
45.8	0.0409	0.0410	0.0410
45.9	0.0410	0.0410	0.0410
46.0	0.0411	0.0411	0.0411
46.1	0.0412	0.0412	0.0412
46.2	0.0413	0.0413	0.0413
46.3	0.0413	0.0414	0.0414
46.4	0.0414	0.0414	0.0414
46.5	0.0415	0.0415	0.0415
46.6	0.0416	0.0416	0.0416
46.7	0.0417	0.0417	0.0417
46.8	0.0417	0.0418	0.0418
46.9	0.0418	0.0418	0.0418
47.0	0.0419	0.0419	0.0419
47.1	0.0420	0.0420	0.0420
47.2	0.0420	0.0421	0.0421
47.3	0.0421	0.0422	0.0422
47.4	0.0422	0.0422	0.0422
47.5	0.0423	0.0423	0.0423
47.6	0.0424	0.0424	0.0424
47.7	0.0425	0.0425	0.0425
47.8	0.0425	0.0426	0.0426
47.9	0.0426	0.0426	0.0426
48.0	0.0427	0.0427	0.0427
48.1	0.0428	0.0428	0.0428
48.2	0.0429	0.0429	0.0429
48.3	0.0429	0.0430	0.0430
48.4	0.0430	0.0430	0.0430
48.5	0.0431	0.0431	0.0431
48.6	0.0432	0.0432	0.0432
48.7	0.0433	0.0433	0.0433
48.8	0.0433	0.0434	0.0434
48.9	0.0434	0.0434	0.0434

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x	$A(x)$	P_{v1}	P_{v2}
49.0	0.0435	0.0435	0.0435
49.1	0.0436	0.0436	0.0436
49.2	0.0437	0.0437	0.0437
49.3	0.0438	0.0438	0.0438
49.4	0.0438	0.0439	0.0439
49.5	0.0439	0.0439	0.0439
49.6	0.0440	0.0440	0.0440
49.7	0.0441	0.0441	0.0441
49.8	0.0442	0.0442	0.0442
49.9	0.0442	0.0443	0.0443
50.0	0.0443	0.0444	0.0444
50.1	0.0444	0.0444	0.0444
50.2	0.0445	0.0445	0.0445
50.3	0.0446	0.0446	0.0446
50.4	0.0447	0.0447	0.0447
50.5	0.0447	0.0448	0.0448
50.6	0.0448	0.0448	0.0448
50.7	0.0449	0.0449	0.0449
50.8	0.0450	0.0450	0.0450
50.9	0.0451	0.0451	0.0451
51.0	0.0452	0.0452	0.0452
51.1	0.0452	0.0453	0.0453
51.2	0.0453	0.0454	0.0454
51.3	0.0454	0.0454	0.0454
51.4	0.0455	0.0455	0.0455
51.5	0.0456	0.0456	0.0456
51.6	0.0457	0.0457	0.0457
51.7	0.0457	0.0458	0.0458
51.8	0.0458	0.0459	0.0459
51.9	0.0459	0.0459	0.0459
52.0	0.0460	0.0460	0.0460
52.1	0.0461	0.0461	0.0461
52.2	0.0462	0.0462	0.0462
52.3	0.0463	0.0463	0.0463
52.4	0.0463	0.0464	0.0464
52.5	0.0464	0.0465	0.0465
52.6	0.0465	0.0465	0.0465
52.7	0.0466	0.0466	0.0466
52.8	0.0467	0.0467	0.0467
52.9	0.0468	0.0468	0.0468

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x	$A(x)$	P_{v1}	P_{v2}
53.0	0.0469	0.0469	0.0469
53.1	0.0469	0.0470	0.0470
53.2	0.0470	0.0471	0.0471
53.3	0.0471	0.0471	0.0471
53.4	0.0472	0.0472	0.0472
53.5	0.0473	0.0473	0.0473
53.6	0.0474	0.0474	0.0474
53.7	0.0475	0.0475	0.0475
53.8	0.0475	0.0476	0.0476
53.9	0.0476	0.0477	0.0477
54.0	0.0477	0.0477	0.0477
54.1	0.0478	0.0478	0.0478
54.2	0.0479	0.0479	0.0479
54.3	0.0480	0.0480	0.0480
54.4	0.0481	0.0481	0.0481
54.5	0.0482	0.0482	0.0482
54.6	0.0482	0.0483	0.0483
54.7	0.0483	0.0484	0.0484
54.8	0.0484	0.0484	0.0484
54.9	0.0485	0.0485	0.0485
55.0	0.0486	0.0486	0.0486
55.1	0.0487	0.0487	0.0487
55.2	0.0488	0.0488	0.0488
55.3	0.0489	0.0489	0.0489
55.4	0.0489	0.0490	0.0490
55.5	0.0490	0.0491	0.0491
55.6	0.0491	0.0491	0.0491
55.7	0.0492	0.0492	0.0492
55.8	0.0493	0.0493	0.0493
55.9	0.0494	0.0494	0.0494
56.0	0.0495	0.0495	0.0495
56.1	0.0496	0.0496	0.0496
56.2	0.0496	0.0497	0.0497
56.3	0.0497	0.0498	0.0498
56.4	0.0498	0.0498	0.0498
56.5	0.0499	0.0499	0.0499
56.6	0.0500	0.0500	0.0500
56.7	0.0501	0.0501	0.0501
56.8	0.0502	0.0502	0.0502
56.9	0.0503	0.0503	0.0503

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x	$A(x)$	P_{v1}	P_{v2}
57.0	0.0504	0.0504	0.0504
57.1	0.0504	0.0505	0.0505
57.2	0.0505	0.0506	0.0506
57.3	0.0506	0.0507	0.0507
57.4	0.0507	0.0507	0.0507
57.5	0.0508	0.0508	0.0508
57.6	0.0509	0.0509	0.0509
57.7	0.0510	0.0510	0.0510
57.8	0.0511	0.0511	0.0511
57.9	0.0512	0.0512	0.0512
58.0	0.0513	0.0513	0.0513
58.1	0.0514	0.0514	0.0514
58.2	0.0514	0.0515	0.0515
58.3	0.0515	0.0516	0.0516
58.4	0.0516	0.0516	0.0516
58.5	0.0517	0.0517	0.0517
58.6	0.0518	0.0518	0.0518
58.7	0.0519	0.0519	0.0519
58.8	0.0520	0.0520	0.0520
58.9	0.0521	0.0521	0.0521
59.0	0.0522	0.0522	0.0522
59.1	0.0523	0.0523	0.0523
59.2	0.0524	0.0524	0.0524
59.3	0.0524	0.0525	0.0525
59.4	0.0525	0.0526	0.0526
59.5	0.0526	0.0527	0.0527
59.6	0.0527	0.0527	0.0527
59.7	0.0528	0.0528	0.0528
59.8	0.0529	0.0529	0.0529
59.9	0.0530	0.0530	0.0530
60.0	0.0531	0.0531	0.0531
60.1	0.0532	0.0532	0.0532
60.2	0.0533	0.0533	0.0533
60.3	0.0534	0.0534	0.0534
60.4	0.0535	0.0535	0.0535
60.5	0.0536	0.0536	0.0536
60.6	0.0536	0.0537	0.0537
60.7	0.0537	0.0538	0.0538
60.8	0.0538	0.0539	0.0539
60.9	0.0539	0.0540	0.0540

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x	$A(x)$	P_{v1}	P_{v2}
61.0	0.0540	0.0540	0.0540
61.1	0.0541	0.0541	0.0541
61.2	0.0542	0.0542	0.0542
61.3	0.0543	0.0543	0.0543
61.4	0.0544	0.0544	0.0544
61.5	0.0545	0.0545	0.0545
61.6	0.0546	0.0546	0.0546
61.7	0.0547	0.0547	0.0547
61.8	0.0548	0.0548	0.0548
61.9	0.0549	0.0549	0.0549
62.0	0.0550	0.0550	0.0550
62.1	0.0551	0.0551	0.0551
62.2	0.0551	0.0552	0.0552
62.3	0.0552	0.0553	0.0553
62.4	0.0553	0.0554	0.0554
62.5	0.0554	0.0555	0.0555
62.6	0.0555	0.0555	0.0555
62.7	0.0556	0.0556	0.0556
62.8	0.0557	0.0557	0.0557
62.9	0.0558	0.0558	0.0558
63.0	0.0559	0.0559	0.0559
63.1	0.0560	0.0560	0.0560
63.2	0.0561	0.0561	0.0561
63.3	0.0562	0.0562	0.0562
63.4	0.0563	0.0563	0.0563
63.5	0.0564	0.0564	0.0564
63.6	0.0565	0.0565	0.0565
63.7	0.0566	0.0566	0.0566
63.8	0.0567	0.0567	0.0567
63.9	0.0568	0.0568	0.0568
64.0	0.0569	0.0569	0.0569
64.1	0.0570	0.0570	0.0570
64.2	0.0571	0.0571	0.0571
64.3	0.0571	0.0572	0.0572
64.4	0.0572	0.0573	0.0573
64.5	0.0573	0.0574	0.0574
64.6	0.0574	0.0575	0.0575
64.7	0.0575	0.0576	0.0576
64.8	0.0576	0.0577	0.0577
64.9	0.0577	0.0578	0.0578

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x	$A(x)$	P_{v1}	P_{v2}
65.0	0.0578	0.0579	0.0579
65.1	0.0579	0.0579	0.0579
65.2	0.0580	0.0580	0.0580
65.3	0.0581	0.0581	0.0581
65.4	0.0582	0.0582	0.0582
65.5	0.0583	0.0583	0.0583
65.6	0.0584	0.0584	0.0584
65.7	0.0585	0.0585	0.0585
65.8	0.0586	0.0586	0.0586
65.9	0.0587	0.0587	0.0587
66.0	0.0588	0.0588	0.0588
66.1	0.0589	0.0589	0.0589
66.2	0.0590	0.0590	0.0590
66.3	0.0591	0.0591	0.0591
66.4	0.0592	0.0592	0.0592
66.5	0.0593	0.0593	0.0593
66.6	0.0594	0.0594	0.0594
66.7	0.0595	0.0595	0.0595
66.8	0.0596	0.0596	0.0596
66.9	0.0597	0.0597	0.0597
67.0	0.0598	0.0598	0.0598
67.1	0.0599	0.0599	0.0599
67.2	0.0600	0.0600	0.0600
67.3	0.0601	0.0601	0.0601
67.4	0.0602	0.0602	0.0602
67.5	0.0603	0.0603	0.0603
67.6	0.0604	0.0604	0.0604
67.7	0.0605	0.0605	0.0605
67.8	0.0606	0.0606	0.0606
67.9	0.0607	0.0607	0.0607
68.0	0.0608	0.0608	0.0608
68.1	0.0609	0.0609	0.0609
68.2	0.0610	0.0610	0.0610
68.3	0.0611	0.0611	0.0611
68.4	0.0612	0.0612	0.0612
68.5	0.0613	0.0613	0.0613
68.6	0.0614	0.0614	0.0614
68.7	0.0615	0.0615	0.0615
68.8	0.0616	0.0616	0.0616
68.9	0.0617	0.0617	0.0617

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x	$A(x)$	P_{v1}	P_{v2}
69.0	0.0618	0.0618	0.0618
69.1	0.0619	0.0619	0.0619
69.2	0.0620	0.0620	0.0620
69.3	0.0621	0.0621	0.0621
69.4	0.0622	0.0622	0.0622
69.5	0.0623	0.0623	0.0623
69.6	0.0624	0.0624	0.0624
69.7	0.0625	0.0625	0.0625
69.8	0.0626	0.0626	0.0626
69.9	0.0627	0.0627	0.0627
70.0	0.0628	0.0628	0.0628
70.1	0.0629	0.0629	0.0629
70.2	0.0630	0.0630	0.0630
70.3	0.0631	0.0631	0.0631
70.4	0.0632	0.0632	0.0632
70.5	0.0633	0.0633	0.0633
70.6	0.0634	0.0634	0.0634
70.7	0.0635	0.0635	0.0635
70.8	0.0636	0.0636	0.0636
70.9	0.0637	0.0637	0.0637
71.0	0.0638	0.0638	0.0638
71.1	0.0639	0.0639	0.0639
71.2	0.0640	0.0640	0.0640
71.3	0.0641	0.0641	0.0641
71.4	0.0642	0.0642	0.0642
71.5	0.0643	0.0643	0.0643
71.6	0.0644	0.0644	0.0644
71.7	0.0645	0.0645	0.0645
71.8	0.0646	0.0646	0.0646
71.9	0.0647	0.0648	0.0648
72.0	0.0648	0.0649	0.0649
72.1	0.0649	0.0650	0.0650
72.2	0.0650	0.0651	0.0651
72.3	0.0651	0.0652	0.0652
72.4	0.0652	0.0653	0.0653
72.5	0.0653	0.0654	0.0654
72.6	0.0654	0.0655	0.0655
72.7	0.0656	0.0656	0.0656
72.8	0.0657	0.0657	0.0657
72.9	0.0658	0.0658	0.0658

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x	$A(x)$	P_{v1}	P_{v2}
73.0	0.0659	0.0659	0.0659
73.1	0.0660	0.0660	0.0660
73.2	0.0661	0.0661	0.0661
73.3	0.0662	0.0662	0.0662
73.4	0.0663	0.0663	0.0663
73.5	0.0664	0.0664	0.0664
73.6	0.0665	0.0665	0.0665
73.7	0.0666	0.0666	0.0666
73.8	0.0667	0.0667	0.0667
73.9	0.0668	0.0668	0.0668
74.0	0.0669	0.0669	0.0669
74.1	0.0670	0.0670	0.0670
74.2	0.0671	0.0671	0.0671
74.3	0.0672	0.0672	0.0672
74.4	0.0673	0.0674	0.0674
74.5	0.0674	0.0675	0.0675
74.6	0.0675	0.0676	0.0676
74.7	0.0676	0.0677	0.0677
74.8	0.0677	0.0678	0.0678
74.9	0.0678	0.0679	0.0679
75.0	0.0680	0.0680	0.0680
75.1	0.0681	0.0681	0.0681
75.2	0.0682	0.0682	0.0682
75.3	0.0683	0.0683	0.0683
75.4	0.0684	0.0684	0.0684
75.5	0.0685	0.0685	0.0685
75.6	0.0686	0.0686	0.0686
75.7	0.0687	0.0687	0.0687
75.8	0.0688	0.0688	0.0688
75.9	0.0689	0.0689	0.0689
76.0	0.0690	0.0690	0.0690
76.1	0.0691	0.0691	0.0691
76.2	0.0692	0.0693	0.0693
76.3	0.0693	0.0694	0.0694
76.4	0.0694	0.0695	0.0695
76.5	0.0695	0.0696	0.0696
76.6	0.0697	0.0697	0.0697
76.7	0.0698	0.0698	0.0698
76.8	0.0699	0.0699	0.0699
76.9	0.0700	0.0700	0.0700

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x	$A(x)$	P_{v1}	P_{v2}
77.0	0.0701	0.0701	0.0701
77.1	0.0702	0.0702	0.0702
77.2	0.0703	0.0703	0.0703
77.3	0.0704	0.0704	0.0704
77.4	0.0705	0.0705	0.0705
77.5	0.0706	0.0706	0.0706
77.6	0.0707	0.0707	0.0707
77.7	0.0708	0.0709	0.0709
77.8	0.0709	0.0710	0.0710
77.9	0.0710	0.0711	0.0711
78.0	0.0712	0.0712	0.0712
78.1	0.0713	0.0713	0.0713
78.2	0.0714	0.0714	0.0714
78.3	0.0715	0.0715	0.0715
78.4	0.0716	0.0716	0.0716
78.5	0.0717	0.0717	0.0717
78.6	0.0718	0.0718	0.0718
78.7	0.0719	0.0719	0.0719
78.8	0.0720	0.0720	0.0720
78.9	0.0721	0.0722	0.0722
79.0	0.0722	0.0723	0.0723
79.1	0.0723	0.0724	0.0724
79.2	0.0724	0.0725	0.0725
79.3	0.0726	0.0726	0.0726
79.4	0.0727	0.0727	0.0727
79.5	0.0728	0.0728	0.0728
79.6	0.0729	0.0729	0.0729
79.7	0.0730	0.0730	0.0730
79.8	0.0731	0.0731	0.0731
79.9	0.0732	0.0732	0.0732
80.0	0.0733	0.0733	0.0733
80.1	0.0734	0.0735	0.0735
80.2	0.0735	0.0736	0.0736
80.3	0.0736	0.0737	0.0737
80.4	0.0738	0.0738	0.0738
80.5	0.0739	0.0739	0.0739
80.6	0.0740	0.0740	0.0740
80.7	0.0741	0.0741	0.0741
80.8	0.0742	0.0742	0.0742
80.9	0.0743	0.0743	0.0743

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x	$A(x)$	P_{v1}	P_{v2}
81.0	0.0744	0.0744	0.0744
81.1	0.0745	0.0746	0.0746
81.2	0.0746	0.0747	0.0747
81.3	0.0747	0.0748	0.0748
81.4	0.0749	0.0749	0.0749
81.5	0.0750	0.0750	0.0750
81.6	0.0751	0.0751	0.0751
81.7	0.0752	0.0752	0.0752
81.8	0.0753	0.0753	0.0753
81.9	0.0754	0.0754	0.0754
82.0	0.0755	0.0755	0.0755
82.1	0.0756	0.0757	0.0757
82.2	0.0757	0.0758	0.0758
82.3	0.0758	0.0759	0.0759
82.4	0.0760	0.0760	0.0760
82.5	0.0761	0.0761	0.0761
82.6	0.0762	0.0762	0.0762
82.7	0.0763	0.0763	0.0763
82.8	0.0764	0.0764	0.0764
82.9	0.0765	0.0765	0.0765
83.0	0.0766	0.0766	0.0766
83.1	0.0767	0.0768	0.0768
83.2	0.0768	0.0769	0.0769
83.3	0.0770	0.0770	0.0770
83.4	0.0771	0.0771	0.0771
83.5	0.0772	0.0772	0.0772
83.6	0.0773	0.0773	0.0773
83.7	0.0774	0.0774	0.0774
83.8	0.0775	0.0775	0.0775
83.9	0.0776	0.0777	0.0777
84.0	0.0777	0.0778	0.0778
84.1	0.0778	0.0779	0.0779
84.2	0.0780	0.0780	0.0780
84.3	0.0781	0.0781	0.0781
84.4	0.0782	0.0782	0.0782
84.5	0.0783	0.0783	0.0783
84.6	0.0784	0.0784	0.0784
84.7	0.0785	0.0785	0.0785
84.8	0.0786	0.0787	0.0787
84.9	0.0787	0.0788	0.0788

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x	$A(x)$	P_{v1}	P_{v2}
85.0	0.0789	0.0789	0.0789
85.1	0.0790	0.0790	0.0790
85.2	0.0791	0.0791	0.0791
85.3	0.0792	0.0792	0.0792
85.4	0.0793	0.0793	0.0793
85.5	0.0794	0.0794	0.0794
85.6	0.0795	0.0796	0.0796
85.7	0.0796	0.0797	0.0797
85.8	0.0798	0.0798	0.0798
85.9	0.0799	0.0799	0.0799
86.0	0.0800	0.0800	0.0800
86.1	0.0801	0.0801	0.0801
86.2	0.0802	0.0802	0.0802
86.3	0.0803	0.0803	0.0803
86.4	0.0804	0.0805	0.0805
86.5	0.0805	0.0806	0.0806
86.6	0.0807	0.0807	0.0807
86.7	0.0808	0.0808	0.0808
86.8	0.0809	0.0809	0.0809
86.9	0.0810	0.0810	0.0810
87.0	0.0811	0.0811	0.0811
87.1	0.0812	0.0813	0.0813
87.2	0.0813	0.0814	0.0814
87.3	0.0815	0.0815	0.0815
87.4	0.0816	0.0816	0.0816
87.5	0.0817	0.0817	0.0817
87.6	0.0818	0.0818	0.0818
87.7	0.0819	0.0819	0.0819
87.8	0.0820	0.0821	0.0821
87.9	0.0821	0.0822	0.0822
88.0	0.0823	0.0823	0.0823
88.1	0.0824	0.0824	0.0824
88.2	0.0825	0.0825	0.0825
88.3	0.0826	0.0826	0.0826
88.4	0.0827	0.0827	0.0827
88.5	0.0828	0.0829	0.0829
88.6	0.0829	0.0830	0.0830
88.7	0.0831	0.0831	0.0831
88.8	0.0832	0.0832	0.0832
88.9	0.0833	0.0833	0.0833

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x	$A(x)$	P_{v1}	P_{v2}
89.0	0.0834	0.0834	0.0834
89.1	0.0835	0.0835	0.0835
89.2	0.0836	0.0837	0.0837
89.3	0.0837	0.0838	0.0838
89.4	0.0839	0.0839	0.0839
89.5	0.0840	0.0840	0.0840
89.6	0.0841	0.0841	0.0841
89.7	0.0842	0.0842	0.0842
89.8	0.0843	0.0843	0.0843
89.9	0.0844	0.0845	0.0845
90.0	0.0845	0.0846	0.0846
90.1	0.0847	0.0847	0.0847
90.2	0.0848	0.0848	0.0848
90.3	0.0849	0.0849	0.0849
90.4	0.0850	0.0850	0.0850
90.5	0.0851	0.0851	0.0851
90.6	0.0852	0.0853	0.0853
90.7	0.0854	0.0854	0.0854
90.8	0.0855	0.0855	0.0855
90.9	0.0856	0.0856	0.0856
91.0	0.0857	0.0857	0.0857
91.1	0.0858	0.0858	0.0858
91.2	0.0859	0.0860	0.0860
91.3	0.0860	0.0861	0.0861
91.4	0.0862	0.0862	0.0862
91.5	0.0863	0.0863	0.0863
91.6	0.0864	0.0864	0.0864
91.7	0.0865	0.0865	0.0865
91.8	0.0866	0.0867	0.0867
91.9	0.0867	0.0868	0.0868
92.0	0.0869	0.0869	0.0869
92.1	0.0870	0.0870	0.0870
92.2	0.0871	0.0871	0.0871
92.3	0.0872	0.0872	0.0872
92.4	0.0873	0.0873	0.0873
92.5	0.0874	0.0875	0.0875
92.6	0.0876	0.0876	0.0876
92.7	0.0877	0.0877	0.0877
92.8	0.0878	0.0878	0.0878
92.9	0.0879	0.0879	0.0879

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x	$A(x)$	P_{v1}	P_{v2}
93.0	0.0880	0.0880	0.0880
93.1	0.0881	0.0882	0.0882
93.2	0.0883	0.0883	0.0883
93.3	0.0884	0.0884	0.0884
93.4	0.0885	0.0885	0.0885
93.5	0.0886	0.0886	0.0886
93.6	0.0887	0.0887	0.0887
93.7	0.0888	0.0889	0.0889
93.8	0.0890	0.0890	0.0890
93.9	0.0891	0.0891	0.0891
94.0	0.0892	0.0892	0.0892
94.1	0.0893	0.0893	0.0893
94.2	0.0894	0.0894	0.0894
94.3	0.0895	0.0896	0.0896
94.4	0.0897	0.0897	0.0897
94.5	0.0898	0.0898	0.0898
94.6	0.0899	0.0899	0.0899
94.7	0.0900	0.0900	0.0900
94.8	0.0901	0.0902	0.0902
94.9	0.0902	0.0903	0.0903
95.0	0.0904	0.0904	0.0904
95.1	0.0905	0.0905	0.0905
95.2	0.0906	0.0906	0.0906
95.3	0.0907	0.0907	0.0907
95.4	0.0908	0.0909	0.0909
95.5	0.0909	0.0910	0.0910
95.6	0.0911	0.0911	0.0911
95.7	0.0912	0.0912	0.0912
95.8	0.0913	0.0913	0.0913
95.9	0.0914	0.0914	0.0914
96.0	0.0915	0.0916	0.0916
96.1	0.0917	0.0917	0.0917
96.2	0.0918	0.0918	0.0918
96.3	0.0919	0.0919	0.0919
96.4	0.0920	0.0920	0.0920
96.5	0.0921	0.0922	0.0922
96.6	0.0922	0.0923	0.0923
96.7	0.0924	0.0924	0.0924
96.8	0.0925	0.0925	0.0925
96.9	0.0926	0.0926	0.0926

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x	$A(x)$	P_{v1}	P_{v2}
97.0	0.0927	0.0927	0.0927
97.1	0.0928	0.0929	0.0929
97.2	0.0930	0.0930	0.0930
97.3	0.0931	0.0931	0.0931
97.4	0.0932	0.0932	0.0932
97.5	0.0933	0.0933	0.0933
97.6	0.0934	0.0934	0.0934
97.7	0.0935	0.0936	0.0936
97.8	0.0937	0.0937	0.0937
97.9	0.0938	0.0938	0.0938
98.0	0.0939	0.0939	0.0939
98.1	0.0940	0.0940	0.0940
98.2	0.0941	0.0942	0.0942
98.3	0.0943	0.0943	0.0943
98.4	0.0944	0.0944	0.0944
98.5	0.0945	0.0945	0.0945
98.6	0.0946	0.0946	0.0946
98.7	0.0947	0.0948	0.0948
98.8	0.0948	0.0949	0.0949
98.9	0.0950	0.0950	0.0950
99.0	0.0951	0.0951	0.0951
99.1	0.0952	0.0952	0.0952
99.2	0.0953	0.0953	0.0953
99.3	0.0954	0.0955	0.0955
99.4	0.0956	0.0956	0.0956
99.5	0.0957	0.0957	0.0957
99.6	0.0958	0.0958	0.0958
99.7	0.0959	0.0959	0.0959
99.8	0.0960	0.0961	0.0961
99.9	0.0962	0.0962	0.0962
100.0	0.0963	0.0963	0.0963
100.1	0.0964	0.0964	0.0964
100.2	0.0965	0.0965	0.0965
100.3	0.0966	0.0967	0.0967
100.4	0.0967	0.0968	0.0968
100.5	0.0969	0.0969	0.0969
100.6	0.0970	0.0970	0.0970
100.7	0.0971	0.0971	0.0971
100.8	0.0972	0.0972	0.0972
100.9	0.0973	0.0974	0.0974

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x	$A(x)$	P_{v1}	P_{v2}
101.0	0.0975	0.0975	0.0975
101.1	0.0976	0.0976	0.0976
101.2	0.0977	0.0977	0.0977
101.3	0.0978	0.0978	0.0978
101.4	0.0979	0.0980	0.0980
101.5	0.0981	0.0981	0.0981
101.6	0.0982	0.0982	0.0982
101.7	0.0983	0.0983	0.0983
101.8	0.0984	0.0984	0.0984
101.9	0.0985	0.0986	0.0986
102.0	0.0987	0.0987	0.0987
102.1	0.0988	0.0988	0.0988
102.2	0.0989	0.0989	0.0989
102.3	0.0990	0.0990	0.0990
102.4	0.0991	0.0992	0.0992
102.5	0.0993	0.0993	0.0993
102.6	0.0994	0.0994	0.0994
102.7	0.0995	0.0995	0.0995
102.8	0.0996	0.0996	0.0996
102.9	0.0997	0.0998	0.0998
103.0	0.0999	0.0999	0.0999
103.1	0.1000	0.1000	0.1000
103.2	0.1001	0.1001	0.1001
103.3	0.1002	0.1002	0.1002
103.4	0.1003	0.1004	0.1004
103.5	0.1005	0.1005	0.1005
103.6	0.1006	0.1006	0.1006
103.7	0.1007	0.1007	0.1007
103.8	0.1008	0.1008	0.1008
103.9	0.1009	0.1010	0.1010
104.0	0.1011	0.1011	0.1011
104.1	0.1012	0.1012	0.1012
104.2	0.1013	0.1013	0.1013
104.3	0.1014	0.1014	0.1014
104.4	0.1015	0.1016	0.1016
104.5	0.1016	0.1017	0.1017
104.6	0.1018	0.1018	0.1018
104.7	0.1019	0.1019	0.1019
104.8	0.1020	0.1020	0.1020
104.9	0.1021	0.1022	0.1022

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x	$A(x)$	P_{v1}	P_{v2}
105.0	0.1022	0.1023	0.1023
105.1	0.1024	0.1024	0.1024
105.2	0.1025	0.1025	0.1025
105.3	0.1026	0.1026	0.1026
105.4	0.1027	0.1027	0.1027
105.5	0.1028	0.1029	0.1029
105.6	0.1030	0.1030	0.1030
105.7	0.1031	0.1031	0.1031
105.8	0.1032	0.1032	0.1032
105.9	0.1033	0.1033	0.1033
106.0	0.1034	0.1035	0.1035
106.1	0.1036	0.1036	0.1036
106.2	0.1037	0.1037	0.1037
106.3	0.1038	0.1038	0.1038
106.4	0.1039	0.1039	0.1039
106.5	0.1040	0.1041	0.1041
106.6	0.1042	0.1042	0.1042
106.7	0.1043	0.1043	0.1043
106.8	0.1044	0.1044	0.1044
106.9	0.1045	0.1045	0.1045
107.0	0.1046	0.1047	0.1047
107.1	0.1048	0.1048	0.1048
107.2	0.1049	0.1049	0.1049
107.3	0.1050	0.1050	0.1050
107.4	0.1051	0.1052	0.1052
107.5	0.1053	0.1053	0.1053
107.6	0.1054	0.1054	0.1054
107.7	0.1055	0.1055	0.1055
107.8	0.1056	0.1056	0.1056
107.9	0.1057	0.1058	0.1058
108.0	0.1059	0.1059	0.1059
108.1	0.1060	0.1060	0.1060
108.2	0.1061	0.1061	0.1061
108.3	0.1062	0.1062	0.1062
108.4	0.1063	0.1064	0.1064
108.5	0.1065	0.1065	0.1065
108.6	0.1066	0.1066	0.1066
108.7	0.1067	0.1067	0.1067
108.8	0.1068	0.1068	0.1068
108.9	0.1069	0.1070	0.1070

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x	$A(x)$	P_{v1}	P_{v2}
109.0	0.1071	0.1071	0.1071
109.1	0.1072	0.1072	0.1072
109.2	0.1073	0.1073	0.1073
109.3	0.1074	0.1074	0.1074
109.4	0.1075	0.1076	0.1076
109.5	0.1077	0.1077	0.1077
109.6	0.1078	0.1078	0.1078
109.7	0.1079	0.1079	0.1079
109.8	0.1080	0.1080	0.1080
109.9	0.1081	0.1082	0.1082
110.0	0.1083	0.1083	0.1083
110.1	0.1084	0.1084	0.1084
110.2	0.1085	0.1085	0.1085
110.3	0.1086	0.1086	0.1086
110.4	0.1087	0.1088	0.1088
110.5	0.1089	0.1089	0.1089
110.6	0.1090	0.1090	0.1090
110.7	0.1091	0.1091	0.1091
110.8	0.1092	0.1092	0.1092
110.9	0.1093	0.1094	0.1094
111.0	0.1095	0.1095	0.1095
111.1	0.1096	0.1096	0.1096
111.2	0.1097	0.1097	0.1097
111.3	0.1098	0.1098	0.1098
111.4	0.1099	0.1100	0.1100
111.5	0.1101	0.1101	0.1101
111.6	0.1102	0.1102	0.1102
111.7	0.1103	0.1103	0.1103
111.8	0.1104	0.1104	0.1104
111.9	0.1105	0.1106	0.1106
112.0	0.1107	0.1107	0.1107
112.1	0.1108	0.1108	0.1108
112.2	0.1109	0.1109	0.1109
112.3	0.1110	0.1110	0.1110
112.4	0.1111	0.1112	0.1112
112.5	0.1113	0.1113	0.1113
112.6	0.1114	0.1114	0.1114
112.7	0.1115	0.1115	0.1115
112.8	0.1116	0.1116	0.1116
112.9	0.1117	0.1118	0.1118

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x	$A(x)$	P_{v1}	P_{v2}
113.0	0.1119	0.1119	0.1119
113.1	0.1120	0.1120	0.1120
113.2	0.1121	0.1121	0.1121
113.3	0.1122	0.1122	0.1122
113.4	0.1123	0.1124	0.1124
113.5	0.1125	0.1125	0.1125
113.6	0.1126	0.1126	0.1126
113.7	0.1127	0.1127	0.1127
113.8	0.1128	0.1128	0.1128
113.9	0.1129	0.1130	0.1130
114.0	0.1131	0.1131	0.1131
114.1	0.1132	0.1132	0.1132
114.2	0.1133	0.1133	0.1133
114.3	0.1134	0.1134	0.1134
114.4	0.1135	0.1136	0.1136
114.5	0.1137	0.1137	0.1137
114.6	0.1138	0.1138	0.1138
114.7	0.1139	0.1139	0.1139
114.8	0.1140	0.1140	0.1140
114.9	0.1141	0.1141	0.1141
115.0	0.1143	0.1143	0.1143
115.1	0.1144	0.1144	0.1144
115.2	0.1145	0.1145	0.1145
115.3	0.1146	0.1146	0.1146
115.4	0.1147	0.1147	0.1147
115.5	0.1149	0.1149	0.1149
115.6	0.1150	0.1150	0.1150
115.7	0.1151	0.1151	0.1151
115.8	0.1152	0.1152	0.1152
115.9	0.1153	0.1153	0.1153
116.0	0.1154	0.1155	0.1155
116.1	0.1156	0.1156	0.1156
116.2	0.1157	0.1157	0.1157
116.3	0.1158	0.1158	0.1158
116.4	0.1159	0.1159	0.1159
116.5	0.1160	0.1161	0.1161
116.6	0.1162	0.1162	0.1162
116.7	0.1163	0.1163	0.1163
116.8	0.1164	0.1164	0.1164
116.9	0.1165	0.1165	0.1165

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
117.0	0.1166	0.1167	0.1167
117.1	0.1168	0.1168	0.1168
117.2	0.1169	0.1169	0.1169
117.3	0.1170	0.1170	0.1170
117.4	0.1171	0.1171	0.1171
117.5	0.1172	0.1173	0.1173
117.6	0.1174	0.1174	0.1174
117.7	0.1175	0.1175	0.1175
117.8	0.1176	0.1176	0.1176
117.9	0.1177	0.1177	0.1177
118.0	0.1178	0.1178	0.1178
118.1	0.1180	0.1180	0.1180
118.2	0.1181	0.1181	0.1181
118.3	0.1182	0.1182	0.1182
118.4	0.1183	0.1183	0.1183
118.5	0.1184	0.1184	0.1184
118.6	0.1185	0.1186	0.1186
118.7	0.1187	0.1187	0.1187
118.8	0.1188	0.1188	0.1188
118.9	0.1189	0.1189	0.1189
119.0	0.1190	0.1190	0.1190
119.1	0.1191	0.1192	0.1192
119.2	0.1193	0.1193	0.1193
119.3	0.1194	0.1194	0.1194
119.4	0.1195	0.1195	0.1195
119.5	0.1196	0.1196	0.1196
119.6	0.1197	0.1197	0.1197
119.7	0.1199	0.1199	0.1199
119.8	0.1200	0.1200	0.1200
119.9	0.1201	0.1201	0.1201
120.0	0.1202	0.1202	0.1202
120.1	0.1203	0.1203	0.1203
120.2	0.1204	0.1205	0.1205
120.3	0.1206	0.1206	0.1206
120.4	0.1207	0.1207	0.1207
120.5	0.1208	0.1208	0.1208
120.6	0.1209	0.1209	0.1209
120.7	0.1210	0.1210	0.1210
120.8	0.1212	0.1212	0.1212
120.9	0.1213	0.1213	0.1213

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
121.0	0.1214	0.1214	0.1214
121.1	0.1215	0.1215	0.1215
121.2	0.1216	0.1216	0.1216
121.3	0.1217	0.1218	0.1218
121.4	0.1219	0.1219	0.1219
121.5	0.1220	0.1220	0.1220
121.6	0.1221	0.1221	0.1221
121.7	0.1222	0.1222	0.1222
121.8	0.1223	0.1223	0.1223
121.9	0.1224	0.1225	0.1225
122.0	0.1226	0.1226	0.1226
122.1	0.1227	0.1227	0.1227
122.2	0.1228	0.1228	0.1228
122.3	0.1229	0.1229	0.1229
122.4	0.1230	0.1230	0.1230
122.5	0.1232	0.1232	0.1232
122.6	0.1233	0.1233	0.1233
122.7	0.1234	0.1234	0.1234
122.8	0.1235	0.1235	0.1235
122.9	0.1236	0.1236	0.1236
123.0	0.1237	0.1237	0.1237
123.1	0.1239	0.1239	0.1239
123.2	0.1240	0.1240	0.1240
123.3	0.1241	0.1241	0.1241
123.4	0.1242	0.1242	0.1242
123.5	0.1243	0.1243	0.1243
123.6	0.1244	0.1244	0.1244
123.7	0.1246	0.1246	0.1246
123.8	0.1247	0.1247	0.1247
123.9	0.1248	0.1248	0.1248
124.0	0.1249	0.1249	0.1249
124.1	0.1250	0.1250	0.1250
124.2	0.1251	0.1251	0.1251
124.3	0.1253	0.1253	0.1253
124.4	0.1254	0.1254	0.1254
124.5	0.1255	0.1255	0.1255
124.6	0.1256	0.1256	0.1256
124.7	0.1257	0.1257	0.1257
124.8	0.1258	0.1258	0.1258
124.9	0.1260	0.1260	0.1260

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
125.0	0.1261	0.1261	0.1261
125.1	0.1262	0.1262	0.1262
125.2	0.1263	0.1263	0.1263
125.3	0.1264	0.1264	0.1264
125.4	0.1265	0.1265	0.1265
125.5	0.1267	0.1267	0.1267
125.6	0.1268	0.1268	0.1268
125.7	0.1269	0.1269	0.1269
125.8	0.1270	0.1270	0.1270
125.9	0.1271	0.1271	0.1271
126.0	0.1272	0.1272	0.1272
126.1	0.1273	0.1274	0.1274
126.2	0.1275	0.1275	0.1275
126.3	0.1276	0.1276	0.1276
126.4	0.1277	0.1277	0.1277
126.5	0.1278	0.1278	0.1278
126.6	0.1279	0.1279	0.1279
126.7	0.1280	0.1280	0.1280
126.8	0.1282	0.1282	0.1282
126.9	0.1283	0.1283	0.1283
127.0	0.1284	0.1284	0.1284
127.1	0.1285	0.1285	0.1285
127.2	0.1286	0.1286	0.1286
127.3	0.1287	0.1287	0.1287
127.4	0.1288	0.1289	0.1289
127.5	0.1290	0.1290	0.1290
127.6	0.1291	0.1291	0.1291
127.7	0.1292	0.1292	0.1292
127.8	0.1293	0.1293	0.1293
127.9	0.1294	0.1294	0.1294
128.0	0.1295	0.1295	0.1295
128.1	0.1296	0.1297	0.1297
128.2	0.1298	0.1298	0.1298
128.3	0.1299	0.1299	0.1299
128.4	0.1300	0.1300	0.1300
128.5	0.1301	0.1301	0.1301
128.6	0.1302	0.1302	0.1302
128.7	0.1303	0.1303	0.1303
128.8	0.1304	0.1305	0.1305
128.9	0.1306	0.1306	0.1306

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x	$A(x)$	P_{v1}	P_{v2}
129.0	0.1307	0.1307	0.1307
129.1	0.1308	0.1308	0.1308
129.2	0.1309	0.1309	0.1309
129.3	0.1310	0.1310	0.1310
129.4	0.1311	0.1311	0.1311
129.5	0.1312	0.1312	0.1312
129.6	0.1314	0.1314	0.1314
129.7	0.1315	0.1315	0.1315
129.8	0.1316	0.1316	0.1316
129.9	0.1317	0.1317	0.1317
130.0	0.1318	0.1318	0.1318
130.1	0.1319	0.1319	0.1319
130.2	0.1320	0.1320	0.1320
130.3	0.1322	0.1322	0.1322
130.4	0.1323	0.1323	0.1323
130.5	0.1324	0.1324	0.1324
130.6	0.1325	0.1325	0.1325
130.7	0.1326	0.1326	0.1326
130.8	0.1327	0.1327	0.1327
130.9	0.1328	0.1328	0.1328
131.0	0.1329	0.1329	0.1329
131.1	0.1331	0.1331	0.1331
131.2	0.1332	0.1332	0.1332
131.3	0.1333	0.1333	0.1333
131.4	0.1334	0.1334	0.1334
131.5	0.1335	0.1335	0.1335
131.6	0.1336	0.1336	0.1336
131.7	0.1337	0.1337	0.1337
131.8	0.1338	0.1338	0.1338
131.9	0.1340	0.1340	0.1340
132.0	0.1341	0.1341	0.1341
132.1	0.1342	0.1342	0.1342
132.2	0.1343	0.1343	0.1343
132.3	0.1344	0.1344	0.1344
132.4	0.1345	0.1345	0.1345
132.5	0.1346	0.1346	0.1346
132.6	0.1347	0.1347	0.1347
132.7	0.1348	0.1348	0.1348
132.8	0.1350	0.1350	0.1350
132.9	0.1351	0.1351	0.1351

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
133.0	0.1352	0.1352	0.1352
133.1	0.1353	0.1353	0.1353
133.2	0.1354	0.1354	0.1354
133.3	0.1355	0.1355	0.1355
133.4	0.1356	0.1356	0.1356
133.5	0.1357	0.1357	0.1357
133.6	0.1358	0.1358	0.1358
133.7	0.1360	0.1360	0.1360
133.8	0.1361	0.1361	0.1361
133.9	0.1362	0.1362	0.1362
134.0	0.1363	0.1363	0.1363
134.1	0.1364	0.1364	0.1364
134.2	0.1365	0.1365	0.1365
134.3	0.1366	0.1366	0.1366
134.4	0.1367	0.1367	0.1367
134.5	0.1368	0.1368	0.1368
134.6	0.1369	0.1369	0.1369
134.7	0.1371	0.1371	0.1371
134.8	0.1372	0.1372	0.1372
134.9	0.1373	0.1373	0.1373
135.0	0.1374	0.1374	0.1374
135.1	0.1375	0.1375	0.1375
135.2	0.1376	0.1376	0.1376
135.3	0.1377	0.1377	0.1377
135.4	0.1378	0.1378	0.1378
135.5	0.1379	0.1379	0.1379
135.6	0.1380	0.1380	0.1380
135.7	0.1381	0.1381	0.1381
135.8	0.1383	0.1383	0.1383
135.9	0.1384	0.1384	0.1384
136.0	0.1385	0.1385	0.1385
136.1	0.1386	0.1386	0.1386
136.2	0.1387	0.1387	0.1387
136.3	0.1388	0.1388	0.1388
136.4	0.1389	0.1389	0.1389
136.5	0.1390	0.1390	0.1390
136.6	0.1391	0.1391	0.1391
136.7	0.1392	0.1392	0.1392
136.8	0.1393	0.1393	0.1393
136.9	0.1394	0.1394	0.1394

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
137.0	0.1396	0.1395	0.1395
137.1	0.1397	0.1397	0.1397
137.2	0.1398	0.1398	0.1398
137.3	0.1399	0.1399	0.1399
137.4	0.1400	0.1400	0.1400
137.5	0.1401	0.1401	0.1401
137.6	0.1402	0.1402	0.1402
137.7	0.1403	0.1403	0.1403
137.8	0.1404	0.1404	0.1404
137.9	0.1405	0.1405	0.1405
138.0	0.1406	0.1406	0.1406
138.1	0.1407	0.1407	0.1407
138.2	0.1408	0.1408	0.1408
138.3	0.1409	0.1409	0.1409
138.4	0.1411	0.1410	0.1410
138.5	0.1412	0.1411	0.1411
138.6	0.1413	0.1413	0.1413
138.7	0.1414	0.1414	0.1414
138.8	0.1415	0.1415	0.1415
138.9	0.1416	0.1416	0.1416
139.0	0.1417	0.1417	0.1417
139.1	0.1418	0.1418	0.1418
139.2	0.1419	0.1419	0.1419
139.3	0.1420	0.1420	0.1420
139.4	0.1421	0.1421	0.1421
139.5	0.1422	0.1422	0.1422
139.6	0.1423	0.1423	0.1423
139.7	0.1424	0.1424	0.1424
139.8	0.1425	0.1425	0.1425
139.9	0.1426	0.1426	0.1426
140.0	0.1427	0.1427	0.1427
140.1	0.1428	0.1428	0.1428
140.2	0.1429	0.1429	0.1429
140.3	0.1431	0.1430	0.1430
140.4	0.1432	0.1431	0.1431
140.5	0.1433	0.1433	0.1433
140.6	0.1434	0.1434	0.1434
140.7	0.1435	0.1435	0.1435
140.8	0.1436	0.1436	0.1436
140.9	0.1437	0.1437	0.1437

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
141.0	0.1438	0.1438	0.1438
141.1	0.1439	0.1439	0.1439
141.2	0.1440	0.1440	0.1440
141.3	0.1441	0.1441	0.1441
141.4	0.1442	0.1442	0.1442
141.5	0.1443	0.1443	0.1443
141.6	0.1444	0.1444	0.1444
141.7	0.1445	0.1445	0.1445
141.8	0.1446	0.1446	0.1446
141.9	0.1447	0.1447	0.1447
142.0	0.1448	0.1448	0.1448
142.1	0.1449	0.1449	0.1449
142.2	0.1450	0.1450	0.1450
142.3	0.1451	0.1451	0.1451
142.4	0.1452	0.1452	0.1452
142.5	0.1453	0.1453	0.1453
142.6	0.1454	0.1454	0.1454
142.7	0.1455	0.1455	0.1455
142.8	0.1456	0.1456	0.1456
142.9	0.1457	0.1457	0.1457
143.0	0.1458	0.1458	0.1458
143.1	0.1459	0.1459	0.1459
143.2	0.1460	0.1460	0.1460
143.3	0.1461	0.1461	0.1461
143.4	0.1462	0.1462	0.1462
143.5	0.1463	0.1463	0.1463
143.6	0.1464	0.1464	0.1464
143.7	0.1465	0.1465	0.1465
143.8	0.1466	0.1466	0.1466
143.9	0.1467	0.1467	0.1467
144.0	0.1468	0.1468	0.1468
144.1	0.1469	0.1469	0.1469
144.2	0.1470	0.1470	0.1470
144.3	0.1471	0.1471	0.1471
144.4	0.1472	0.1472	0.1472
144.5	0.1473	0.1473	0.1473
144.6	0.1474	0.1474	0.1474
144.7	0.1475	0.1475	0.1475
144.8	0.1476	0.1476	0.1476
144.9	0.1477	0.1477	0.1477

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
145.0	0.1478	0.1478	0.1478
145.1	0.1479	0.1479	0.1479
145.2	0.1480	0.1480	0.1480
145.3	0.1481	0.1481	0.1481
145.4	0.1482	0.1482	0.1482
145.5	0.1483	0.1483	0.1483
145.6	0.1484	0.1484	0.1484
145.7	0.1485	0.1485	0.1485
145.8	0.1486	0.1486	0.1486
145.9	0.1487	0.1487	0.1487
146.0	0.1488	0.1488	0.1488
146.1	0.1489	0.1489	0.1489
146.2	0.1490	0.1490	0.1490
146.3	0.1491	0.1491	0.1491
146.4	0.1492	0.1492	0.1492
146.5	0.1493	0.1493	0.1493
146.6	0.1494	0.1494	0.1494
146.7	0.1495	0.1495	0.1495
146.8	0.1496	0.1496	0.1496
146.9	0.1497	0.1497	0.1497
147.0	0.1498	0.1498	0.1498
147.1	0.1499	0.1499	0.1499
147.2	0.1500	0.1500	0.1500
147.3	0.1501	0.1501	0.1501
147.4	0.1502	0.1502	0.1502
147.5	0.1503	0.1503	0.1503
147.6	0.1504	0.1504	0.1504
147.7	0.1505	0.1505	0.1505
147.8	0.1506	0.1506	0.1506
147.9	0.1507	0.1507	0.1507
148.0	0.1508	0.1507	0.1507
148.1	0.1509	0.1508	0.1508
148.2	0.1510	0.1509	0.1509
148.3	0.1511	0.1510	0.1510
148.4	0.1511	0.1511	0.1511
148.5	0.1512	0.1512	0.1512
148.6	0.1513	0.1513	0.1513
148.7	0.1514	0.1514	0.1514
148.8	0.1515	0.1515	0.1515
148.9	0.1516	0.1516	0.1516

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
149.0	0.1517	0.1517	0.1517
149.1	0.1518	0.1518	0.1518
149.2	0.1519	0.1519	0.1519
149.3	0.1520	0.1520	0.1520
149.4	0.1521	0.1521	0.1521
149.5	0.1522	0.1522	0.1522
149.6	0.1523	0.1523	0.1523
149.7	0.1524	0.1523	0.1523
149.8	0.1525	0.1524	0.1524
149.9	0.1526	0.1525	0.1525
150.0	0.1527	0.1526	0.1526
150.1	0.1527	0.1527	0.1527
150.2	0.1528	0.1528	0.1528
150.3	0.1529	0.1529	0.1529
150.4	0.1530	0.1530	0.1530
150.5	0.1531	0.1531	0.1531
150.6	0.1532	0.1532	0.1532
150.7	0.1533	0.1533	0.1533
150.8	0.1534	0.1534	0.1534
150.9	0.1535	0.1535	0.1535
151.0	0.1536	0.1535	0.1535
151.1	0.1537	0.1536	0.1536
151.2	0.1538	0.1537	0.1537
151.3	0.1538	0.1538	0.1538
151.4	0.1539	0.1539	0.1539
151.5	0.1540	0.1540	0.1540
151.6	0.1541	0.1541	0.1541
151.7	0.1542	0.1542	0.1542
151.8	0.1543	0.1543	0.1543
151.9	0.1544	0.1544	0.1544
152.0	0.1545	0.1545	0.1545
152.1	0.1546	0.1545	0.1545
152.2	0.1547	0.1546	0.1546
152.3	0.1548	0.1547	0.1547
152.4	0.1548	0.1548	0.1548
152.5	0.1549	0.1549	0.1549
152.6	0.1550	0.1550	0.1550
152.7	0.1551	0.1551	0.1551
152.8	0.1552	0.1552	0.1552
152.9	0.1553	0.1553	0.1553

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
153.0	0.1554	0.1554	0.1554
153.1	0.1555	0.1554	0.1554
153.2	0.1556	0.1555	0.1555
153.3	0.1556	0.1556	0.1556
153.4	0.1557	0.1557	0.1557
153.5	0.1558	0.1558	0.1558
153.6	0.1559	0.1559	0.1559
153.7	0.1560	0.1560	0.1560
153.8	0.1561	0.1561	0.1561
153.9	0.1562	0.1561	0.1561
154.0	0.1563	0.1562	0.1562
154.1	0.1563	0.1563	0.1563
154.2	0.1564	0.1564	0.1564
154.3	0.1565	0.1565	0.1565
154.4	0.1566	0.1566	0.1566
154.5	0.1567	0.1567	0.1567
154.6	0.1568	0.1568	0.1568
154.7	0.1569	0.1568	0.1568
154.8	0.1570	0.1569	0.1569
154.9	0.1570	0.1570	0.1570
155.0	0.1571	0.1571	0.1571
155.1	0.1572	0.1572	0.1572
155.2	0.1573	0.1573	0.1573
155.3	0.1574	0.1574	0.1574
155.4	0.1575	0.1574	0.1574
155.5	0.1576	0.1575	0.1575
155.6	0.1576	0.1576	0.1576
155.7	0.1577	0.1577	0.1577
155.8	0.1578	0.1578	0.1578
155.9	0.1579	0.1579	0.1579
156.0	0.1580	0.1579	0.1579
156.1	0.1581	0.1580	0.1580
156.2	0.1581	0.1581	0.1581
156.3	0.1582	0.1582	0.1582
156.4	0.1583	0.1583	0.1583
156.5	0.1584	0.1584	0.1584
156.6	0.1585	0.1584	0.1584
156.7	0.1586	0.1585	0.1585
156.8	0.1586	0.1586	0.1586
156.9	0.1587	0.1587	0.1587

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
157.0	0.1588	0.1588	0.1588
157.1	0.1589	0.1589	0.1589
157.2	0.1590	0.1589	0.1589
157.3	0.1591	0.1590	0.1590
157.4	0.1591	0.1591	0.1591
157.5	0.1592	0.1592	0.1592
157.6	0.1593	0.1593	0.1593
157.7	0.1594	0.1594	0.1594
157.8	0.1595	0.1594	0.1594
157.9	0.1595	0.1595	0.1595
158.0	0.1596	0.1596	0.1596
158.1	0.1597	0.1597	0.1597
158.2	0.1598	0.1598	0.1598
158.3	0.1599	0.1598	0.1598
158.4	0.1600	0.1599	0.1599
158.5	0.1600	0.1600	0.1600
158.6	0.1601	0.1601	0.1601
158.7	0.1602	0.1602	0.1602
158.8	0.1603	0.1602	0.1602
158.9	0.1604	0.1603	0.1603
159.0	0.1604	0.1604	0.1604
159.1	0.1605	0.1605	0.1605
159.2	0.1606	0.1606	0.1606
159.3	0.1607	0.1606	0.1606
159.4	0.1608	0.1607	0.1607
159.5	0.1608	0.1608	0.1608
159.6	0.1609	0.1609	0.1609
159.7	0.1610	0.1610	0.1610
159.8	0.1611	0.1610	0.1610
159.9	0.1611	0.1611	0.1611
160.0	0.1612	0.1612	0.1612
160.1	0.1613	0.1613	0.1613
160.2	0.1614	0.1613	0.1613
160.3	0.1615	0.1614	0.1614
160.4	0.1615	0.1615	0.1615
160.5	0.1616	0.1616	0.1616
160.6	0.1617	0.1617	0.1617
160.7	0.1618	0.1617	0.1617
160.8	0.1618	0.1618	0.1618
160.9	0.1619	0.1619	0.1619

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
161.0	0.1620	0.1620	0.1620
161.1	0.1621	0.1620	0.1620
161.2	0.1621	0.1621	0.1621
161.3	0.1622	0.1622	0.1622
161.4	0.1623	0.1623	0.1623
161.5	0.1624	0.1623	0.1623
161.6	0.1625	0.1624	0.1624
161.7	0.1625	0.1625	0.1625
161.8	0.1626	0.1626	0.1626
161.9	0.1627	0.1626	0.1626
162.0	0.1628	0.1627	0.1627
162.1	0.1628	0.1628	0.1628
162.2	0.1629	0.1629	0.1629
162.3	0.1630	0.1629	0.1629
162.4	0.1630	0.1630	0.1630
162.5	0.1631	0.1631	0.1631
162.6	0.1632	0.1632	0.1632
162.7	0.1633	0.1632	0.1632
162.8	0.1633	0.1633	0.1633
162.9	0.1634	0.1634	0.1634
163.0	0.1635	0.1634	0.1634
163.1	0.1636	0.1635	0.1635
163.2	0.1636	0.1636	0.1636
163.3	0.1637	0.1637	0.1637
163.4	0.1638	0.1637	0.1637
163.5	0.1639	0.1638	0.1638
163.6	0.1639	0.1639	0.1639
163.7	0.1640	0.1640	0.1640
163.8	0.1641	0.1640	0.1640
163.9	0.1641	0.1641	0.1641
164.0	0.1642	0.1642	0.1642
164.1	0.1643	0.1642	0.1642
164.2	0.1644	0.1643	0.1643
164.3	0.1644	0.1644	0.1644
164.4	0.1645	0.1645	0.1645
164.5	0.1646	0.1645	0.1645
164.6	0.1646	0.1646	0.1646
164.7	0.1647	0.1647	0.1647
164.8	0.1648	0.1647	0.1647
164.9	0.1648	0.1648	0.1648

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
165.0	0.1649	0.1649	0.1649
165.1	0.1650	0.1649	0.1649
165.2	0.1651	0.1650	0.1650
165.3	0.1651	0.1651	0.1651
165.4	0.1652	0.1651	0.1651
165.5	0.1653	0.1652	0.1652
165.6	0.1653	0.1653	0.1653
165.7	0.1654	0.1654	0.1654
165.8	0.1655	0.1654	0.1654
165.9	0.1655	0.1655	0.1655
166.0	0.1656	0.1656	0.1656
166.1	0.1657	0.1656	0.1656
166.2	0.1657	0.1657	0.1657
166.3	0.1658	0.1658	0.1658
166.4	0.1659	0.1658	0.1658
166.5	0.1659	0.1659	0.1659
166.6	0.1660	0.1660	0.1660
166.7	0.1661	0.1660	0.1660
166.8	0.1661	0.1661	0.1661
166.9	0.1662	0.1662	0.1662
167.0	0.1663	0.1662	0.1662
167.1	0.1663	0.1663	0.1663
167.2	0.1664	0.1664	0.1664
167.3	0.1665	0.1664	0.1664
167.4	0.1665	0.1665	0.1665
167.5	0.1666	0.1666	0.1666
167.6	0.1667	0.1666	0.1666
167.7	0.1667	0.1667	0.1667
167.8	0.1668	0.1667	0.1667
167.9	0.1669	0.1668	0.1668
168.0	0.1669	0.1669	0.1669
168.1	0.1670	0.1669	0.1669
168.2	0.1670	0.1670	0.1670
168.3	0.1671	0.1671	0.1671
168.4	0.1672	0.1671	0.1671
168.5	0.1672	0.1672	0.1672
168.6	0.1673	0.1673	0.1673
168.7	0.1674	0.1673	0.1673
168.8	0.1674	0.1674	0.1674
168.9	0.1675	0.1674	0.1674

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
169.0	0.1676	0.1675	0.1675
169.1	0.1676	0.1676	0.1676
169.2	0.1677	0.1676	0.1676
169.3	0.1677	0.1677	0.1677
169.4	0.1678	0.1678	0.1678
169.5	0.1679	0.1678	0.1678
169.6	0.1679	0.1679	0.1679
169.7	0.1680	0.1679	0.1679
169.8	0.1680	0.1680	0.1680
169.9	0.1681	0.1681	0.1681
170.0	0.1682	0.1681	0.1681
170.1	0.1682	0.1682	0.1682
170.2	0.1683	0.1682	0.1682
170.3	0.1683	0.1683	0.1683
170.4	0.1684	0.1684	0.1684
170.5	0.1685	0.1684	0.1684
170.6	0.1685	0.1685	0.1685
170.7	0.1686	0.1685	0.1685
170.8	0.1686	0.1686	0.1686
170.9	0.1687	0.1687	0.1687
171.0	0.1688	0.1687	0.1687
171.1	0.1688	0.1688	0.1688
171.2	0.1689	0.1688	0.1688
171.3	0.1689	0.1689	0.1689
171.4	0.1690	0.1689	0.1689
171.5	0.1691	0.1690	0.1690
171.6	0.1691	0.1691	0.1691
171.7	0.1692	0.1691	0.1691
171.8	0.1692	0.1692	0.1692
171.9	0.1693	0.1692	0.1692
172.0	0.1693	0.1693	0.1693
172.1	0.1694	0.1693	0.1693
172.2	0.1695	0.1694	0.1694
172.3	0.1695	0.1695	0.1695
172.4	0.1696	0.1695	0.1695
172.5	0.1696	0.1696	0.1696
172.6	0.1697	0.1696	0.1696
172.7	0.1697	0.1697	0.1697
172.8	0.1698	0.1697	0.1697
172.9	0.1698	0.1698	0.1698

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
173.0	0.1699	0.1698	0.1698
173.1	0.1700	0.1699	0.1699
173.2	0.1700	0.1700	0.1700
173.3	0.1701	0.1700	0.1700
173.4	0.1701	0.1701	0.1701
173.5	0.1702	0.1701	0.1701
173.6	0.1702	0.1702	0.1702
173.7	0.1703	0.1702	0.1702
173.8	0.1703	0.1703	0.1703
173.9	0.1704	0.1703	0.1703
174.0	0.1704	0.1704	0.1704
174.1	0.1705	0.1704	0.1704
174.2	0.1705	0.1705	0.1705
174.3	0.1706	0.1705	0.1705
174.4	0.1706	0.1706	0.1706
174.5	0.1707	0.1706	0.1706
174.6	0.1707	0.1707	0.1707
174.7	0.1708	0.1707	0.1707
174.8	0.1709	0.1708	0.1708
174.9	0.1709	0.1708	0.1708
175.0	0.1710	0.1709	0.1709
175.1	0.1710	0.1709	0.1709
175.2	0.1711	0.1710	0.1710
175.3	0.1711	0.1710	0.1710
175.4	0.1712	0.1711	0.1711
175.5	0.1712	0.1711	0.1711
175.6	0.1713	0.1712	0.1712
175.7	0.1713	0.1712	0.1712
175.8	0.1714	0.1713	0.1713
175.9	0.1714	0.1713	0.1713
176.0	0.1715	0.1714	0.1714
176.1	0.1715	0.1714	0.1714
176.2	0.1715	0.1715	0.1715
176.3	0.1716	0.1715	0.1715
176.4	0.1716	0.1716	0.1716
176.5	0.1717	0.1716	0.1716
176.6	0.1717	0.1717	0.1717
176.7	0.1718	0.1717	0.1717
176.8	0.1718	0.1718	0.1718
176.9	0.1719	0.1718	0.1718

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
177.0	0.1719	0.1719	0.1719
177.1	0.1720	0.1719	0.1719
177.2	0.1720	0.1720	0.1720
177.3	0.1721	0.1720	0.1720
177.4	0.1721	0.1721	0.1721
177.5	0.1722	0.1721	0.1721
177.6	0.1722	0.1721	0.1721
177.7	0.1723	0.1722	0.1722
177.8	0.1723	0.1722	0.1722
177.9	0.1723	0.1723	0.1723
178.0	0.1724	0.1723	0.1723
178.1	0.1724	0.1724	0.1724
178.2	0.1725	0.1724	0.1724
178.3	0.1725	0.1725	0.1725
178.4	0.1726	0.1725	0.1725
178.5	0.1726	0.1725	0.1725
178.6	0.1727	0.1726	0.1726
178.7	0.1727	0.1726	0.1726
178.8	0.1727	0.1727	0.1727
178.9	0.1728	0.1727	0.1727
179.0	0.1728	0.1728	0.1728
179.1	0.1729	0.1728	0.1728
179.2	0.1729	0.1728	0.1728
179.3	0.1730	0.1729	0.1729
179.4	0.1730	0.1729	0.1729
179.5	0.1730	0.1730	0.1730
179.6	0.1731	0.1730	0.1730
179.7	0.1731	0.1731	0.1731
179.8	0.1732	0.1731	0.1731
179.9	0.1732	0.1731	0.1731
180.0	0.1732	0.1732	0.1732
180.1	0.1733	0.1732	0.1732
180.2	0.1733	0.1733	0.1733
180.3	0.1734	0.1733	0.1733
180.4	0.1734	0.1733	0.1733
180.5	0.1734	0.1734	0.1734
180.6	0.1735	0.1734	0.1734
180.7	0.1735	0.1735	0.1735
180.8	0.1736	0.1735	0.1735
180.9	0.1736	0.1735	0.1735

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
181.0	0.1736	0.1736	0.1736
181.1	0.1737	0.1736	0.1736
181.2	0.1737	0.1737	0.1737
181.3	0.1738	0.1737	0.1737
181.4	0.1738	0.1737	0.1737
181.5	0.1738	0.1738	0.1738
181.6	0.1739	0.1738	0.1738
181.7	0.1739	0.1738	0.1738
181.8	0.1739	0.1739	0.1739
181.9	0.1740	0.1739	0.1739
182.0	0.1740	0.1740	0.1740
182.1	0.1741	0.1740	0.1740
182.2	0.1741	0.1740	0.1740
182.3	0.1741	0.1741	0.1741
182.4	0.1742	0.1741	0.1741
182.5	0.1742	0.1741	0.1741
182.6	0.1742	0.1742	0.1742
182.7	0.1743	0.1742	0.1742
182.8	0.1743	0.1742	0.1742
182.9	0.1743	0.1743	0.1743
183.0	0.1744	0.1743	0.1743
183.1	0.1744	0.1743	0.1743
183.2	0.1744	0.1744	0.1744
183.3	0.1745	0.1744	0.1744
183.4	0.1745	0.1744	0.1744
183.5	0.1745	0.1745	0.1745
183.6	0.1746	0.1745	0.1745
183.7	0.1746	0.1745	0.1745
183.8	0.1746	0.1746	0.1746
183.9	0.1747	0.1746	0.1746
184.0	0.1747	0.1746	0.1746
184.1	0.1747	0.1747	0.1747
184.2	0.1748	0.1747	0.1747
184.3	0.1748	0.1747	0.1747
184.4	0.1748	0.1748	0.1748
184.5	0.1749	0.1748	0.1748
184.6	0.1749	0.1748	0.1748
184.7	0.1749	0.1749	0.1749
184.8	0.1750	0.1749	0.1749
184.9	0.1750	0.1749	0.1749

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
185.0	0.1750	0.1750	0.1750
185.1	0.1751	0.1750	0.1750
185.2	0.1751	0.1750	0.1750
185.3	0.1751	0.1750	0.1750
185.4	0.1751	0.1751	0.1751
185.5	0.1752	0.1751	0.1751
185.6	0.1752	0.1751	0.1751
185.7	0.1752	0.1752	0.1752
185.8	0.1753	0.1752	0.1752
185.9	0.1753	0.1752	0.1752
186.0	0.1753	0.1752	0.1752
186.1	0.1753	0.1753	0.1753
186.2	0.1754	0.1753	0.1753
186.3	0.1754	0.1753	0.1753
186.4	0.1754	0.1754	0.1754
186.5	0.1755	0.1754	0.1754
186.6	0.1755	0.1754	0.1754
186.7	0.1755	0.1754	0.1754
186.8	0.1755	0.1755	0.1755
186.9	0.1756	0.1755	0.1755
187.0	0.1756	0.1755	0.1755
187.1	0.1756	0.1755	0.1755
187.2	0.1756	0.1756	0.1756
187.3	0.1757	0.1756	0.1756
187.4	0.1757	0.1756	0.1756
187.5	0.1757	0.1756	0.1756
187.6	0.1757	0.1757	0.1757
187.7	0.1758	0.1757	0.1757
187.8	0.1758	0.1757	0.1757
187.9	0.1758	0.1757	0.1757
188.0	0.1758	0.1758	0.1758
188.1	0.1759	0.1758	0.1758
188.2	0.1759	0.1758	0.1758
188.3	0.1759	0.1758	0.1758
188.4	0.1759	0.1759	0.1759
188.5	0.1760	0.1759	0.1759
188.6	0.1760	0.1759	0.1759
188.7	0.1760	0.1759	0.1759
188.8	0.1760	0.1759	0.1759
188.9	0.1760	0.1760	0.1760

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
189.0	0.1761	0.1760	0.1760
189.1	0.1761	0.1760	0.1760
189.2	0.1761	0.1760	0.1760
189.3	0.1761	0.1761	0.1761
189.4	0.1761	0.1761	0.1761
189.5	0.1762	0.1761	0.1761
189.6	0.1762	0.1761	0.1761
189.7	0.1762	0.1761	0.1761
189.8	0.1762	0.1762	0.1762
189.9	0.1763	0.1762	0.1762
190.0	0.1763	0.1762	0.1762
190.1	0.1763	0.1762	0.1762
190.2	0.1763	0.1762	0.1762
190.3	0.1763	0.1763	0.1763
190.4	0.1763	0.1763	0.1763
190.5	0.1764	0.1763	0.1763
190.6	0.1764	0.1763	0.1763
190.7	0.1764	0.1763	0.1763
190.8	0.1764	0.1763	0.1763
190.9	0.1764	0.1764	0.1764
191.0	0.1765	0.1764	0.1764
191.1	0.1765	0.1764	0.1764
191.2	0.1765	0.1764	0.1764
191.3	0.1765	0.1764	0.1764
191.4	0.1765	0.1764	0.1764
191.5	0.1765	0.1765	0.1765
191.6	0.1766	0.1765	0.1765
191.7	0.1766	0.1765	0.1765
191.8	0.1766	0.1765	0.1765
191.9	0.1766	0.1765	0.1765
192.0	0.1766	0.1765	0.1765
192.1	0.1766	0.1766	0.1766
192.2	0.1767	0.1766	0.1766
192.3	0.1767	0.1766	0.1766
192.4	0.1767	0.1766	0.1766
192.5	0.1767	0.1766	0.1766
192.6	0.1767	0.1766	0.1766
192.7	0.1767	0.1766	0.1766
192.8	0.1767	0.1767	0.1767
192.9	0.1767	0.1767	0.1767

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
193.0	0.1768	0.1767	0.1767
193.1	0.1768	0.1767	0.1767
193.2	0.1768	0.1767	0.1767
193.3	0.1768	0.1767	0.1767
193.4	0.1768	0.1767	0.1767
193.5	0.1768	0.1767	0.1767
193.6	0.1768	0.1768	0.1768
193.7	0.1768	0.1768	0.1768
193.8	0.1769	0.1768	0.1768
193.9	0.1769	0.1768	0.1768
194.0	0.1769	0.1768	0.1768
194.1	0.1769	0.1768	0.1768
194.2	0.1769	0.1768	0.1768
194.3	0.1769	0.1768	0.1768
194.4	0.1769	0.1768	0.1768
194.5	0.1769	0.1769	0.1769
194.6	0.1769	0.1769	0.1769
194.7	0.1770	0.1769	0.1769
194.8	0.1770	0.1769	0.1769
194.9	0.1770	0.1769	0.1769
195.0	0.1770	0.1769	0.1769
195.1	0.1770	0.1769	0.1769
195.2	0.1770	0.1769	0.1769
195.3	0.1770	0.1769	0.1769
195.4	0.1770	0.1769	0.1769
195.5	0.1770	0.1769	0.1769
195.6	0.1770	0.1769	0.1769
195.7	0.1770	0.1770	0.1770
195.8	0.1770	0.1770	0.1770
195.9	0.1771	0.1770	0.1770
196.0	0.1771	0.1770	0.1770
196.1	0.1771	0.1770	0.1770
196.2	0.1771	0.1770	0.1770
196.3	0.1771	0.1770	0.1770
196.4	0.1771	0.1770	0.1770
196.5	0.1771	0.1770	0.1770
196.6	0.1771	0.1770	0.1770
196.7	0.1771	0.1770	0.1770
196.8	0.1771	0.1770	0.1770
196.9	0.1771	0.1770	0.1770

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
197.0	0.1771	0.1770	0.1770
197.1	0.1771	0.1770	0.1770
197.2	0.1771	0.1770	0.1770
197.3	0.1771	0.1770	0.1770
197.4	0.1771	0.1770	0.1770
197.5	0.1771	0.1770	0.1770
197.6	0.1771	0.1771	0.1771
197.7	0.1771	0.1771	0.1771
197.8	0.1771	0.1771	0.1771
197.9	0.1771	0.1771	0.1771
198.0	0.1771	0.1771	0.1771
198.1	0.1771	0.1771	0.1771
198.2	0.1771	0.1771	0.1771
198.3	0.1772	0.1771	0.1771
198.4	0.1772	0.1771	0.1771
198.5	0.1772	0.1771	0.1771
198.6	0.1772	0.1771	0.1771
198.7	0.1772	0.1771	0.1771
198.8	0.1772	0.1771	0.1771
198.9	0.1772	0.1771	0.1771
199.0	0.1772	0.1771	0.1771
199.1	0.1772	0.1771	0.1771
199.2	0.1772	0.1771	0.1771
199.3	0.1772	0.1771	0.1771
199.4	0.1772	0.1771	0.1771
199.5	0.1772	0.1771	0.1771
199.6	0.1772	0.1771	0.1771
199.7	0.1771	0.1771	0.1771
199.8	0.1771	0.1771	0.1771
199.9	0.1771	0.1771	0.1771
200.0	0.1771	0.1771	0.1771
200.1	0.1771	0.1771	0.1771
200.2	0.1771	0.1771	0.1771
200.3	0.1771	0.1771	0.1771
200.4	0.1771	0.1770	0.1770
200.5	0.1771	0.1770	0.1770
200.6	0.1771	0.1770	0.1770
200.7	0.1771	0.1770	0.1770
200.8	0.1771	0.1770	0.1770
200.9	0.1771	0.1770	0.1770

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
201.0	0.1771	0.1770	0.1770
201.1	0.1771	0.1770	0.1770
201.2	0.1771	0.1770	0.1770
201.3	0.1771	0.1770	0.1770
201.4	0.1771	0.1770	0.1770
201.5	0.1771	0.1770	0.1770
201.6	0.1771	0.1770	0.1770
201.7	0.1771	0.1770	0.1770
201.8	0.1771	0.1770	0.1770
201.9	0.1771	0.1770	0.1770
202.0	0.1771	0.1770	0.1770
202.1	0.1771	0.1770	0.1770
202.2	0.1770	0.1770	0.1770
202.3	0.1770	0.1770	0.1770
202.4	0.1770	0.1769	0.1769
202.5	0.1770	0.1769	0.1769
202.6	0.1770	0.1769	0.1769
202.7	0.1770	0.1769	0.1769
202.8	0.1770	0.1769	0.1769
202.9	0.1770	0.1769	0.1769
203.0	0.1770	0.1769	0.1769
203.1	0.1770	0.1769	0.1769
203.2	0.1770	0.1769	0.1769
203.3	0.1770	0.1769	0.1769
203.4	0.1769	0.1769	0.1769
203.5	0.1769	0.1768	0.1768
203.6	0.1769	0.1768	0.1768
203.7	0.1769	0.1768	0.1768
203.8	0.1769	0.1768	0.1768
203.9	0.1769	0.1768	0.1768
204.0	0.1769	0.1768	0.1768
204.1	0.1769	0.1768	0.1768
204.2	0.1769	0.1768	0.1768
204.3	0.1768	0.1768	0.1768
204.4	0.1768	0.1767	0.1767
204.5	0.1768	0.1767	0.1767
204.6	0.1768	0.1767	0.1767
204.7	0.1768	0.1767	0.1767
204.8	0.1768	0.1767	0.1767
204.9	0.1768	0.1767	0.1767

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
205.0	0.1768	0.1767	0.1767
205.1	0.1767	0.1767	0.1767
205.2	0.1767	0.1766	0.1766
205.3	0.1767	0.1766	0.1766
205.4	0.1767	0.1766	0.1766
205.5	0.1767	0.1766	0.1766
205.6	0.1767	0.1766	0.1766
205.7	0.1767	0.1766	0.1766
205.8	0.1767	0.1766	0.1766
205.9	0.1766	0.1765	0.1765
206.0	0.1766	0.1765	0.1765
206.1	0.1766	0.1765	0.1765
206.2	0.1766	0.1765	0.1765
206.3	0.1766	0.1765	0.1765
206.4	0.1766	0.1765	0.1765
206.5	0.1765	0.1765	0.1765
206.6	0.1765	0.1764	0.1764
206.7	0.1765	0.1764	0.1764
206.8	0.1765	0.1764	0.1764
206.9	0.1765	0.1764	0.1764
207.0	0.1765	0.1764	0.1764
207.1	0.1764	0.1763	0.1763
207.2	0.1764	0.1763	0.1763
207.3	0.1764	0.1763	0.1763
207.4	0.1764	0.1763	0.1763
207.5	0.1764	0.1763	0.1763
207.6	0.1763	0.1763	0.1763
207.7	0.1763	0.1762	0.1762
207.8	0.1763	0.1762	0.1762
207.9	0.1763	0.1762	0.1762
208.0	0.1763	0.1762	0.1762
208.1	0.1763	0.1762	0.1762
208.2	0.1762	0.1761	0.1761
208.3	0.1762	0.1761	0.1761
208.4	0.1762	0.1761	0.1761
208.5	0.1762	0.1761	0.1761
208.6	0.1762	0.1761	0.1761
208.7	0.1761	0.1760	0.1760
208.8	0.1761	0.1760	0.1760
208.9	0.1761	0.1760	0.1760

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
209.0	0.1761	0.1760	0.1760
209.1	0.1760	0.1760	0.1760
209.2	0.1760	0.1759	0.1759
209.3	0.1760	0.1759	0.1759
209.4	0.1760	0.1759	0.1759
209.5	0.1760	0.1759	0.1759
209.6	0.1759	0.1758	0.1758
209.7	0.1759	0.1758	0.1758
209.8	0.1759	0.1758	0.1758
209.9	0.1759	0.1758	0.1758
210.0	0.1758	0.1757	0.1757
210.1	0.1758	0.1757	0.1757
210.2	0.1758	0.1757	0.1757
210.3	0.1758	0.1757	0.1757
210.4	0.1757	0.1756	0.1756
210.5	0.1757	0.1756	0.1756
210.6	0.1757	0.1756	0.1756
210.7	0.1757	0.1756	0.1756
210.8	0.1756	0.1755	0.1755
210.9	0.1756	0.1755	0.1755
211.0	0.1756	0.1755	0.1755
211.1	0.1756	0.1755	0.1755
211.2	0.1755	0.1754	0.1754
211.3	0.1755	0.1754	0.1754
211.4	0.1755	0.1754	0.1754
211.5	0.1755	0.1754	0.1754
211.6	0.1754	0.1753	0.1753
211.7	0.1754	0.1753	0.1753
211.8	0.1754	0.1753	0.1753
211.9	0.1753	0.1753	0.1753
212.0	0.1753	0.1752	0.1752
212.1	0.1753	0.1752	0.1752
212.2	0.1753	0.1752	0.1752
212.3	0.1752	0.1751	0.1751
212.4	0.1752	0.1751	0.1751
212.5	0.1752	0.1751	0.1751
212.6	0.1751	0.1751	0.1751
212.7	0.1751	0.1750	0.1750
212.8	0.1751	0.1750	0.1750
212.9	0.1751	0.1750	0.1750

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
213.0	0.1750	0.1749	0.1749
213.1	0.1750	0.1749	0.1749
213.2	0.1750	0.1749	0.1749
213.3	0.1749	0.1748	0.1748
213.4	0.1749	0.1748	0.1748
213.5	0.1749	0.1748	0.1748
213.6	0.1748	0.1747	0.1747
213.7	0.1748	0.1747	0.1747
213.8	0.1748	0.1747	0.1747
213.9	0.1747	0.1747	0.1747
214.0	0.1747	0.1746	0.1746
214.1	0.1747	0.1746	0.1746
214.2	0.1746	0.1746	0.1746
214.3	0.1746	0.1745	0.1745
214.4	0.1746	0.1745	0.1745
214.5	0.1745	0.1745	0.1745
214.6	0.1745	0.1744	0.1744
214.7	0.1745	0.1744	0.1744
214.8	0.1744	0.1744	0.1744
214.9	0.1744	0.1743	0.1743
215.0	0.1744	0.1743	0.1743
215.1	0.1743	0.1743	0.1743
215.2	0.1743	0.1742	0.1742
215.3	0.1743	0.1742	0.1742
215.4	0.1742	0.1741	0.1741
215.5	0.1742	0.1741	0.1741
215.6	0.1742	0.1741	0.1741
215.7	0.1741	0.1740	0.1740
215.8	0.1741	0.1740	0.1740
215.9	0.1741	0.1740	0.1740
216.0	0.1740	0.1739	0.1739
216.1	0.1740	0.1739	0.1739
216.2	0.1740	0.1739	0.1739
216.3	0.1739	0.1738	0.1738
216.4	0.1739	0.1738	0.1738
216.5	0.1738	0.1737	0.1737
216.6	0.1738	0.1737	0.1737
216.7	0.1738	0.1737	0.1737
216.8	0.1737	0.1736	0.1736
216.9	0.1737	0.1736	0.1736

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
217.0	0.1736	0.1736	0.1736
217.1	0.1736	0.1735	0.1735
217.2	0.1736	0.1735	0.1735
217.3	0.1735	0.1734	0.1734
217.4	0.1735	0.1734	0.1734
217.5	0.1735	0.1734	0.1734
217.6	0.1734	0.1733	0.1733
217.7	0.1734	0.1733	0.1733
217.8	0.1733	0.1732	0.1732
217.9	0.1733	0.1732	0.1732
218.0	0.1733	0.1732	0.1732
218.1	0.1732	0.1731	0.1731
218.2	0.1732	0.1731	0.1731
218.3	0.1731	0.1730	0.1730
218.4	0.1731	0.1730	0.1730
218.5	0.1730	0.1730	0.1730
218.6	0.1730	0.1729	0.1729
218.7	0.1730	0.1729	0.1729
218.8	0.1729	0.1728	0.1728
218.9	0.1729	0.1728	0.1728
219.0	0.1728	0.1727	0.1727
219.1	0.1728	0.1727	0.1727
219.2	0.1728	0.1727	0.1727
219.3	0.1727	0.1726	0.1726
219.4	0.1727	0.1726	0.1726
219.5	0.1726	0.1725	0.1725
219.6	0.1726	0.1725	0.1725
219.7	0.1725	0.1724	0.1724
219.8	0.1725	0.1724	0.1724
219.9	0.1724	0.1724	0.1724
220.0	0.1724	0.1723	0.1723
220.1	0.1724	0.1723	0.1723
220.2	0.1723	0.1722	0.1722
220.3	0.1723	0.1722	0.1722
220.4	0.1722	0.1721	0.1721
220.5	0.1722	0.1721	0.1721
220.6	0.1721	0.1720	0.1720
220.7	0.1721	0.1720	0.1720
220.8	0.1720	0.1719	0.1719
220.9	0.1720	0.1719	0.1719

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
221.0	0.1719	0.1719	0.1719
221.1	0.1719	0.1718	0.1718
221.2	0.1719	0.1718	0.1718
221.3	0.1718	0.1717	0.1717
221.4	0.1718	0.1717	0.1717
221.5	0.1717	0.1716	0.1716
221.6	0.1717	0.1716	0.1716
221.7	0.1716	0.1715	0.1715
221.8	0.1716	0.1715	0.1715
221.9	0.1715	0.1714	0.1714
222.0	0.1715	0.1714	0.1714
222.1	0.1714	0.1713	0.1713
222.2	0.1714	0.1713	0.1713
222.3	0.1713	0.1712	0.1712
222.4	0.1713	0.1712	0.1712
222.5	0.1712	0.1711	0.1711
222.6	0.1712	0.1711	0.1711
222.7	0.1711	0.1710	0.1710
222.8	0.1711	0.1710	0.1710
222.9	0.1710	0.1709	0.1709
223.0	0.1710	0.1709	0.1709
223.1	0.1709	0.1708	0.1708
223.2	0.1709	0.1708	0.1708
223.3	0.1708	0.1707	0.1707
223.4	0.1708	0.1707	0.1707
223.5	0.1707	0.1706	0.1706
223.6	0.1707	0.1706	0.1706
223.7	0.1706	0.1705	0.1705
223.8	0.1706	0.1705	0.1705
223.9	0.1705	0.1704	0.1704
224.0	0.1705	0.1704	0.1704
224.1	0.1704	0.1703	0.1703
224.2	0.1704	0.1703	0.1703
224.3	0.1703	0.1702	0.1702
224.4	0.1702	0.1702	0.1702
224.5	0.1702	0.1701	0.1701
224.6	0.1701	0.1700	0.1700
224.7	0.1701	0.1700	0.1700
224.8	0.1700	0.1699	0.1699
224.9	0.1700	0.1699	0.1699

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
225.0	0.1699	0.1698	0.1698
225.1	0.1699	0.1698	0.1698
225.2	0.1698	0.1697	0.1697
225.3	0.1698	0.1697	0.1697
225.4	0.1697	0.1696	0.1696
225.5	0.1697	0.1696	0.1696
225.6	0.1696	0.1695	0.1695
225.7	0.1695	0.1694	0.1694
225.8	0.1695	0.1694	0.1694
225.9	0.1694	0.1693	0.1693
226.0	0.1694	0.1693	0.1693
226.1	0.1693	0.1692	0.1692
226.2	0.1693	0.1692	0.1692
226.3	0.1692	0.1691	0.1691
226.4	0.1691	0.1691	0.1691
226.5	0.1691	0.1690	0.1690
226.6	0.1690	0.1689	0.1689
226.7	0.1690	0.1689	0.1689
226.8	0.1689	0.1688	0.1688
226.9	0.1689	0.1688	0.1688
227.0	0.1688	0.1687	0.1687
227.1	0.1687	0.1686	0.1686
227.2	0.1687	0.1686	0.1686
227.3	0.1686	0.1685	0.1685
227.4	0.1686	0.1685	0.1685
227.5	0.1685	0.1684	0.1684
227.6	0.1684	0.1684	0.1684
227.7	0.1684	0.1683	0.1683
227.8	0.1683	0.1682	0.1682
227.9	0.1683	0.1682	0.1682
228.0	0.1682	0.1681	0.1681
228.1	0.1681	0.1681	0.1681
228.2	0.1681	0.1680	0.1680
228.3	0.1680	0.1679	0.1679
228.4	0.1680	0.1679	0.1679
228.5	0.1679	0.1678	0.1678
228.6	0.1678	0.1677	0.1677
228.7	0.1678	0.1677	0.1677
228.8	0.1677	0.1676	0.1676
228.9	0.1677	0.1676	0.1676

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
229.0	0.1676	0.1675	0.1675
229.1	0.1675	0.1674	0.1674
229.2	0.1675	0.1674	0.1674
229.3	0.1674	0.1673	0.1673
229.4	0.1673	0.1673	0.1673
229.5	0.1673	0.1672	0.1672
229.6	0.1672	0.1671	0.1671
229.7	0.1672	0.1671	0.1671
229.8	0.1671	0.1670	0.1670
229.9	0.1670	0.1669	0.1669
230.0	0.1670	0.1669	0.1669
230.1	0.1669	0.1668	0.1668
230.2	0.1668	0.1667	0.1667
230.3	0.1668	0.1667	0.1667
230.4	0.1667	0.1666	0.1666
230.5	0.1666	0.1666	0.1666
230.6	0.1666	0.1665	0.1665
230.7	0.1665	0.1664	0.1664
230.8	0.1665	0.1664	0.1664
230.9	0.1664	0.1663	0.1663
231.0	0.1663	0.1662	0.1662
231.1	0.1663	0.1662	0.1662
231.2	0.1662	0.1661	0.1661
231.3	0.1661	0.1660	0.1660
231.4	0.1661	0.1660	0.1660
231.5	0.1660	0.1659	0.1659
231.6	0.1659	0.1658	0.1658
231.7	0.1659	0.1658	0.1658
231.8	0.1658	0.1657	0.1657
231.9	0.1657	0.1656	0.1656
232.0	0.1657	0.1656	0.1656
232.1	0.1656	0.1655	0.1655
232.2	0.1655	0.1654	0.1654
232.3	0.1655	0.1654	0.1654
232.4	0.1654	0.1653	0.1653
232.5	0.1653	0.1652	0.1652
232.6	0.1653	0.1652	0.1652
232.7	0.1652	0.1651	0.1651
232.8	0.1651	0.1650	0.1650
232.9	0.1650	0.1650	0.1650

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
233.0	0.1650	0.1649	0.1649
233.1	0.1649	0.1648	0.1648
233.2	0.1648	0.1647	0.1647
233.3	0.1648	0.1647	0.1647
233.4	0.1647	0.1646	0.1646
233.5	0.1646	0.1645	0.1645
233.6	0.1646	0.1645	0.1645
233.7	0.1645	0.1644	0.1644
233.8	0.1644	0.1643	0.1643
233.9	0.1644	0.1643	0.1643
234.0	0.1643	0.1642	0.1642
234.1	0.1642	0.1641	0.1641
234.2	0.1641	0.1640	0.1640
234.3	0.1641	0.1640	0.1640
234.4	0.1640	0.1639	0.1639
234.5	0.1639	0.1638	0.1638
234.6	0.1639	0.1638	0.1638
234.7	0.1638	0.1637	0.1637
234.8	0.1637	0.1636	0.1636
234.9	0.1636	0.1635	0.1635
235.0	0.1636	0.1635	0.1635
235.1	0.1635	0.1634	0.1634
235.2	0.1634	0.1633	0.1633
235.3	0.1633	0.1633	0.1633
235.4	0.1633	0.1632	0.1632
235.5	0.1632	0.1631	0.1631
235.6	0.1631	0.1630	0.1630
235.7	0.1631	0.1630	0.1630
235.8	0.1630	0.1629	0.1629
235.9	0.1629	0.1628	0.1628
236.0	0.1628	0.1627	0.1627
236.1	0.1628	0.1627	0.1627
236.2	0.1627	0.1626	0.1626
236.3	0.1626	0.1625	0.1625
236.4	0.1625	0.1624	0.1624
236.5	0.1625	0.1624	0.1624
236.6	0.1624	0.1623	0.1623
236.7	0.1623	0.1622	0.1622
236.8	0.1622	0.1621	0.1621
236.9	0.1622	0.1621	0.1621

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
237.0	0.1621	0.1620	0.1620
237.1	0.1620	0.1619	0.1619
237.2	0.1619	0.1618	0.1618
237.3	0.1619	0.1618	0.1618
237.4	0.1618	0.1617	0.1617
237.5	0.1617	0.1616	0.1616
237.6	0.1616	0.1615	0.1615
237.7	0.1615	0.1615	0.1615
237.8	0.1615	0.1614	0.1614
237.9	0.1614	0.1613	0.1613
238.0	0.1613	0.1612	0.1612
238.1	0.1612	0.1612	0.1612
238.2	0.1612	0.1611	0.1611
238.3	0.1611	0.1610	0.1610
238.4	0.1610	0.1609	0.1609
238.5	0.1609	0.1608	0.1608
238.6	0.1609	0.1608	0.1608
238.7	0.1608	0.1607	0.1607
238.8	0.1607	0.1606	0.1606
238.9	0.1606	0.1605	0.1605
239.0	0.1605	0.1604	0.1604
239.1	0.1605	0.1604	0.1604
239.2	0.1604	0.1603	0.1603
239.3	0.1603	0.1602	0.1602
239.4	0.1602	0.1601	0.1601
239.5	0.1601	0.1601	0.1601
239.6	0.1601	0.1600	0.1600
239.7	0.1600	0.1599	0.1599
239.8	0.1599	0.1598	0.1598
239.9	0.1598	0.1597	0.1597
240.0	0.1597	0.1597	0.1597
240.1	0.1597	0.1596	0.1596
240.2	0.1596	0.1595	0.1595
240.3	0.1595	0.1594	0.1594
240.4	0.1594	0.1593	0.1593
240.5	0.1593	0.1592	0.1592
240.6	0.1593	0.1592	0.1592
240.7	0.1592	0.1591	0.1591
240.8	0.1591	0.1590	0.1590
240.9	0.1590	0.1589	0.1589

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
241.0	0.1589	0.1588	0.1588
241.1	0.1588	0.1588	0.1588
241.2	0.1588	0.1587	0.1587
241.3	0.1587	0.1586	0.1586
241.4	0.1586	0.1585	0.1585
241.5	0.1585	0.1584	0.1584
241.6	0.1584	0.1583	0.1583
241.7	0.1584	0.1583	0.1583
241.8	0.1583	0.1582	0.1582
241.9	0.1582	0.1581	0.1581
242.0	0.1581	0.1580	0.1580
242.1	0.1580	0.1579	0.1579
242.2	0.1579	0.1578	0.1578
242.3	0.1578	0.1578	0.1578
242.4	0.1578	0.1577	0.1577
242.5	0.1577	0.1576	0.1576
242.6	0.1576	0.1575	0.1575
242.7	0.1575	0.1574	0.1574
242.8	0.1574	0.1573	0.1573
242.9	0.1573	0.1573	0.1573
243.0	0.1573	0.1572	0.1572
243.1	0.1572	0.1571	0.1571
243.2	0.1571	0.1570	0.1570
243.3	0.1570	0.1569	0.1569
243.4	0.1569	0.1568	0.1568
243.5	0.1568	0.1567	0.1567
243.6	0.1567	0.1567	0.1567
243.7	0.1567	0.1566	0.1566
243.8	0.1566	0.1565	0.1565
243.9	0.1565	0.1564	0.1564
244.0	0.1564	0.1563	0.1563
244.1	0.1563	0.1562	0.1562
244.2	0.1562	0.1561	0.1561
244.3	0.1561	0.1561	0.1561
244.4	0.1561	0.1560	0.1560
244.5	0.1560	0.1559	0.1559
244.6	0.1559	0.1558	0.1558
244.7	0.1558	0.1557	0.1557
244.8	0.1557	0.1556	0.1556
244.9	0.1556	0.1555	0.1555

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
245.0	0.1555	0.1554	0.1554
245.1	0.1554	0.1554	0.1554
245.2	0.1554	0.1553	0.1553
245.3	0.1553	0.1552	0.1552
245.4	0.1552	0.1551	0.1551
245.5	0.1551	0.1550	0.1550
245.6	0.1550	0.1549	0.1549
245.7	0.1549	0.1548	0.1548
245.8	0.1548	0.1547	0.1547
245.9	0.1547	0.1546	0.1546
246.0	0.1546	0.1546	0.1546
246.1	0.1546	0.1545	0.1545
246.2	0.1545	0.1544	0.1544
246.3	0.1544	0.1543	0.1543
246.4	0.1543	0.1542	0.1542
246.5	0.1542	0.1541	0.1541
246.6	0.1541	0.1540	0.1540
246.7	0.1540	0.1539	0.1539
246.8	0.1539	0.1538	0.1538
246.9	0.1538	0.1538	0.1538
247.0	0.1537	0.1537	0.1537
247.1	0.1537	0.1536	0.1536
247.2	0.1536	0.1535	0.1535
247.3	0.1535	0.1534	0.1534
247.4	0.1534	0.1533	0.1533
247.5	0.1533	0.1532	0.1532
247.6	0.1532	0.1531	0.1531
247.7	0.1531	0.1530	0.1530
247.8	0.1530	0.1529	0.1529
247.9	0.1529	0.1528	0.1528
248.0	0.1528	0.1527	0.1527
248.1	0.1527	0.1527	0.1527
248.2	0.1526	0.1526	0.1526
248.3	0.1526	0.1525	0.1525
248.4	0.1525	0.1524	0.1524
248.5	0.1524	0.1523	0.1523
248.6	0.1523	0.1522	0.1522
248.7	0.1522	0.1521	0.1521
248.8	0.1521	0.1520	0.1520
248.9	0.1520	0.1519	0.1519

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
249.0	0.1519	0.1518	0.1518
249.1	0.1518	0.1517	0.1517
249.2	0.1517	0.1516	0.1516
249.3	0.1516	0.1515	0.1515
249.4	0.1515	0.1514	0.1514
249.5	0.1514	0.1514	0.1514
249.6	0.1513	0.1513	0.1513
249.7	0.1513	0.1512	0.1512
249.8	0.1512	0.1511	0.1511
249.9	0.1511	0.1510	0.1510
250.0	0.1510	0.1509	0.1509
250.1	0.1509	0.1508	0.1508
250.2	0.1508	0.1507	0.1507
250.3	0.1507	0.1506	0.1506
250.4	0.1506	0.1505	0.1505
250.5	0.1505	0.1504	0.1504
250.6	0.1504	0.1503	0.1503
250.7	0.1503	0.1502	0.1502
250.8	0.1502	0.1501	0.1501
250.9	0.1501	0.1500	0.1500
251.0	0.1500	0.1499	0.1499
251.1	0.1499	0.1498	0.1498
251.2	0.1498	0.1497	0.1497
251.3	0.1497	0.1496	0.1496
251.4	0.1496	0.1496	0.1496
251.5	0.1495	0.1495	0.1495
251.6	0.1494	0.1494	0.1494
251.7	0.1493	0.1493	0.1493
251.8	0.1492	0.1492	0.1492
251.9	0.1492	0.1491	0.1491
252.0	0.1491	0.1490	0.1490
252.1	0.1490	0.1489	0.1489
252.2	0.1489	0.1488	0.1488
252.3	0.1488	0.1487	0.1487
252.4	0.1487	0.1486	0.1486
252.5	0.1486	0.1485	0.1485
252.6	0.1485	0.1484	0.1484
252.7	0.1484	0.1483	0.1483
252.8	0.1483	0.1482	0.1482
252.9	0.1482	0.1481	0.1481

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
253.0	0.1481	0.1480	0.1480
253.1	0.1480	0.1479	0.1479
253.2	0.1479	0.1478	0.1478
253.3	0.1478	0.1477	0.1477
253.4	0.1477	0.1476	0.1476
253.5	0.1476	0.1475	0.1475
253.6	0.1475	0.1474	0.1474
253.7	0.1474	0.1473	0.1473
253.8	0.1473	0.1472	0.1472
253.9	0.1472	0.1471	0.1471
254.0	0.1471	0.1470	0.1470
254.1	0.1470	0.1469	0.1469
254.2	0.1469	0.1468	0.1468
254.3	0.1468	0.1467	0.1467
254.4	0.1467	0.1466	0.1466
254.5	0.1466	0.1465	0.1465
254.6	0.1465	0.1464	0.1464
254.7	0.1464	0.1463	0.1463
254.8	0.1463	0.1462	0.1462
254.9	0.1462	0.1461	0.1461
255.0	0.1461	0.1460	0.1460
255.1	0.1460	0.1459	0.1459
255.2	0.1459	0.1458	0.1458
255.3	0.1458	0.1457	0.1457
255.4	0.1457	0.1456	0.1456
255.5	0.1456	0.1455	0.1455
255.6	0.1455	0.1454	0.1454
255.7	0.1454	0.1453	0.1453
255.8	0.1453	0.1452	0.1452
255.9	0.1452	0.1451	0.1451
256.0	0.1451	0.1450	0.1450
256.1	0.1450	0.1449	0.1449
256.2	0.1449	0.1448	0.1448
256.3	0.1448	0.1447	0.1447
256.4	0.1447	0.1446	0.1446
256.5	0.1446	0.1445	0.1445
256.6	0.1445	0.1444	0.1444
256.7	0.1444	0.1443	0.1443
256.8	0.1443	0.1442	0.1442
256.9	0.1442	0.1441	0.1441

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
257.0	0.1441	0.1440	0.1440
257.1	0.1440	0.1439	0.1439
257.2	0.1439	0.1438	0.1438
257.3	0.1438	0.1437	0.1437
257.4	0.1437	0.1436	0.1436
257.5	0.1436	0.1435	0.1435
257.6	0.1435	0.1434	0.1434
257.7	0.1433	0.1433	0.1433
257.8	0.1432	0.1432	0.1432
257.9	0.1431	0.1431	0.1431
258.0	0.1430	0.1430	0.1430
258.1	0.1429	0.1429	0.1429
258.2	0.1428	0.1428	0.1428
258.3	0.1427	0.1427	0.1427
258.4	0.1426	0.1426	0.1426
258.5	0.1425	0.1424	0.1424
258.6	0.1424	0.1423	0.1423
258.7	0.1423	0.1422	0.1422
258.8	0.1422	0.1421	0.1421
258.9	0.1421	0.1420	0.1420
259.0	0.1420	0.1419	0.1419
259.1	0.1419	0.1418	0.1418
259.2	0.1418	0.1417	0.1417
259.3	0.1417	0.1416	0.1416
259.4	0.1416	0.1415	0.1415
259.5	0.1415	0.1414	0.1414
259.6	0.1414	0.1413	0.1413
259.7	0.1413	0.1412	0.1412
259.8	0.1412	0.1411	0.1411
259.9	0.1411	0.1410	0.1410
260.0	0.1410	0.1409	0.1409
260.1	0.1408	0.1408	0.1408
260.2	0.1407	0.1407	0.1407
260.3	0.1406	0.1406	0.1406
260.4	0.1405	0.1405	0.1405
260.5	0.1404	0.1404	0.1404
260.6	0.1403	0.1402	0.1402
260.7	0.1402	0.1401	0.1401
260.8	0.1401	0.1400	0.1400
260.9	0.1400	0.1399	0.1399

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
261.0	0.1399	0.1398	0.1398
261.1	0.1398	0.1397	0.1397
261.2	0.1397	0.1396	0.1396
261.3	0.1396	0.1395	0.1395
261.4	0.1395	0.1394	0.1394
261.5	0.1394	0.1393	0.1393
261.6	0.1393	0.1392	0.1392
261.7	0.1391	0.1391	0.1391
261.8	0.1390	0.1390	0.1390
261.9	0.1389	0.1389	0.1389
262.0	0.1388	0.1388	0.1388
262.1	0.1387	0.1386	0.1386
262.2	0.1386	0.1385	0.1385
262.3	0.1385	0.1384	0.1384
262.4	0.1384	0.1383	0.1383
262.5	0.1383	0.1382	0.1382
262.6	0.1382	0.1381	0.1381
262.7	0.1381	0.1380	0.1380
262.8	0.1380	0.1379	0.1379
262.9	0.1379	0.1378	0.1378
263.0	0.1378	0.1377	0.1377
263.1	0.1376	0.1376	0.1376
263.2	0.1375	0.1375	0.1375
263.3	0.1374	0.1374	0.1374
263.4	0.1373	0.1373	0.1373
263.5	0.1372	0.1371	0.1371
263.6	0.1371	0.1370	0.1370
263.7	0.1370	0.1369	0.1369
263.8	0.1369	0.1368	0.1368
263.9	0.1368	0.1367	0.1367
264.0	0.1367	0.1366	0.1366
264.1	0.1366	0.1365	0.1365
264.2	0.1364	0.1364	0.1364
264.3	0.1363	0.1363	0.1363
264.4	0.1362	0.1362	0.1362
264.5	0.1361	0.1361	0.1361
264.6	0.1360	0.1359	0.1359
264.7	0.1359	0.1358	0.1358
264.8	0.1358	0.1357	0.1357
264.9	0.1357	0.1356	0.1356

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
265.0	0.1356	0.1355	0.1355
265.1	0.1355	0.1354	0.1354
265.2	0.1354	0.1353	0.1353
265.3	0.1352	0.1352	0.1352
265.4	0.1351	0.1351	0.1351
265.5	0.1350	0.1350	0.1350
265.6	0.1349	0.1349	0.1349
265.7	0.1348	0.1347	0.1347
265.8	0.1347	0.1346	0.1346
265.9	0.1346	0.1345	0.1345
266.0	0.1345	0.1344	0.1344
266.1	0.1344	0.1343	0.1343
266.2	0.1343	0.1342	0.1342
266.3	0.1341	0.1341	0.1341
266.4	0.1340	0.1340	0.1340
266.5	0.1339	0.1339	0.1339
266.6	0.1338	0.1338	0.1338
266.7	0.1337	0.1336	0.1336
266.8	0.1336	0.1335	0.1335
266.9	0.1335	0.1334	0.1334
267.0	0.1334	0.1333	0.1333
267.1	0.1333	0.1332	0.1332
267.2	0.1331	0.1331	0.1331
267.3	0.1330	0.1330	0.1330
267.4	0.1329	0.1329	0.1329
267.5	0.1328	0.1328	0.1328
267.6	0.1327	0.1326	0.1326
267.7	0.1326	0.1325	0.1325
267.8	0.1325	0.1324	0.1324
267.9	0.1324	0.1323	0.1323
268.0	0.1323	0.1322	0.1322
268.1	0.1321	0.1321	0.1321
268.2	0.1320	0.1320	0.1320
268.3	0.1319	0.1319	0.1319
268.4	0.1318	0.1317	0.1317
268.5	0.1317	0.1316	0.1316
268.6	0.1316	0.1315	0.1315
268.7	0.1315	0.1314	0.1314
268.8	0.1314	0.1313	0.1313
268.9	0.1312	0.1312	0.1312

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
269.0	0.1311	0.1311	0.1311
269.1	0.1310	0.1310	0.1310
269.2	0.1309	0.1309	0.1309
269.3	0.1308	0.1307	0.1307
269.4	0.1307	0.1306	0.1306
269.5	0.1306	0.1305	0.1305
269.6	0.1305	0.1304	0.1304
269.7	0.1303	0.1303	0.1303
269.8	0.1302	0.1302	0.1302
269.9	0.1301	0.1301	0.1301
270.0	0.1300	0.1300	0.1300
270.1	0.1299	0.1298	0.1298
270.2	0.1298	0.1297	0.1297
270.3	0.1297	0.1296	0.1296
270.4	0.1296	0.1295	0.1295
270.5	0.1294	0.1294	0.1294
270.6	0.1293	0.1293	0.1293
270.7	0.1292	0.1292	0.1292
270.8	0.1291	0.1290	0.1290
270.9	0.1290	0.1289	0.1289
271.0	0.1289	0.1288	0.1288
271.1	0.1288	0.1287	0.1287
271.2	0.1287	0.1286	0.1286
271.3	0.1285	0.1285	0.1285
271.4	0.1284	0.1284	0.1284
271.5	0.1283	0.1283	0.1283
271.6	0.1282	0.1281	0.1281
271.7	0.1281	0.1280	0.1280
271.8	0.1280	0.1279	0.1279
271.9	0.1279	0.1278	0.1278
272.0	0.1277	0.1277	0.1277
272.1	0.1276	0.1276	0.1276
272.2	0.1275	0.1275	0.1275
272.3	0.1274	0.1273	0.1273
272.4	0.1273	0.1272	0.1272
272.5	0.1272	0.1271	0.1271
272.6	0.1271	0.1270	0.1270
272.7	0.1269	0.1269	0.1269
272.8	0.1268	0.1268	0.1268
272.9	0.1267	0.1267	0.1267

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
273.0	0.1266	0.1265	0.1265
273.1	0.1265	0.1264	0.1264
273.2	0.1264	0.1263	0.1263
273.3	0.1263	0.1262	0.1262
273.4	0.1261	0.1261	0.1261
273.5	0.1260	0.1260	0.1260
273.6	0.1259	0.1259	0.1259
273.7	0.1258	0.1257	0.1257
273.8	0.1257	0.1256	0.1256
273.9	0.1256	0.1255	0.1255
274.0	0.1254	0.1254	0.1254
274.1	0.1253	0.1253	0.1253
274.2	0.1252	0.1252	0.1252
274.3	0.1251	0.1251	0.1251
274.4	0.1250	0.1249	0.1249
274.5	0.1249	0.1248	0.1248
274.6	0.1248	0.1247	0.1247
274.7	0.1246	0.1246	0.1246
274.8	0.1245	0.1245	0.1245
274.9	0.1244	0.1244	0.1244
275.0	0.1243	0.1242	0.1242
275.1	0.1242	0.1241	0.1241
275.2	0.1241	0.1240	0.1240
275.3	0.1240	0.1239	0.1239
275.4	0.1238	0.1238	0.1238
275.5	0.1237	0.1237	0.1237
275.6	0.1236	0.1236	0.1236
275.7	0.1235	0.1234	0.1234
275.8	0.1234	0.1233	0.1233
275.9	0.1233	0.1232	0.1232
276.0	0.1231	0.1231	0.1231
276.1	0.1230	0.1230	0.1230
276.2	0.1229	0.1229	0.1229
276.3	0.1228	0.1227	0.1227
276.4	0.1227	0.1226	0.1226
276.5	0.1226	0.1225	0.1225
276.6	0.1224	0.1224	0.1224
276.7	0.1223	0.1223	0.1223
276.8	0.1222	0.1222	0.1222
276.9	0.1221	0.1220	0.1220

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
277.0	0.1220	0.1219	0.1219
277.1	0.1219	0.1218	0.1218
277.2	0.1217	0.1217	0.1217
277.3	0.1216	0.1216	0.1216
277.4	0.1215	0.1215	0.1215
277.5	0.1214	0.1214	0.1214
277.6	0.1213	0.1212	0.1212
277.7	0.1212	0.1211	0.1211
277.8	0.1210	0.1210	0.1210
277.9	0.1209	0.1209	0.1209
278.0	0.1208	0.1208	0.1208
278.1	0.1207	0.1207	0.1207
278.2	0.1206	0.1205	0.1205
278.3	0.1205	0.1204	0.1204
278.4	0.1203	0.1203	0.1203
278.5	0.1202	0.1202	0.1202
278.6	0.1201	0.1201	0.1201
278.7	0.1200	0.1200	0.1200
278.8	0.1199	0.1198	0.1198
278.9	0.1198	0.1197	0.1197
279.0	0.1196	0.1196	0.1196
279.1	0.1195	0.1195	0.1195
279.2	0.1194	0.1194	0.1194
279.3	0.1193	0.1193	0.1193
279.4	0.1192	0.1191	0.1191
279.5	0.1191	0.1190	0.1190
279.6	0.1189	0.1189	0.1189
279.7	0.1188	0.1188	0.1188
279.8	0.1187	0.1187	0.1187
279.9	0.1186	0.1186	0.1186
280.0	0.1185	0.1184	0.1184
280.1	0.1184	0.1183	0.1183
280.2	0.1182	0.1182	0.1182
280.3	0.1181	0.1181	0.1181
280.4	0.1180	0.1180	0.1180
280.5	0.1179	0.1178	0.1178
280.6	0.1178	0.1177	0.1177
280.7	0.1177	0.1176	0.1176
280.8	0.1175	0.1175	0.1175
280.9	0.1174	0.1174	0.1174

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
281.0	0.1173	0.1173	0.1173
281.1	0.1172	0.1171	0.1171
281.2	0.1171	0.1170	0.1170
281.3	0.1170	0.1169	0.1169
281.4	0.1168	0.1168	0.1168
281.5	0.1167	0.1167	0.1167
281.6	0.1166	0.1166	0.1166
281.7	0.1165	0.1164	0.1164
281.8	0.1164	0.1163	0.1163
281.9	0.1162	0.1162	0.1162
282.0	0.1161	0.1161	0.1161
282.1	0.1160	0.1160	0.1160
282.2	0.1159	0.1159	0.1159
282.3	0.1158	0.1157	0.1157
282.4	0.1157	0.1156	0.1156
282.5	0.1155	0.1155	0.1155
282.6	0.1154	0.1154	0.1154
282.7	0.1153	0.1153	0.1153
282.8	0.1152	0.1151	0.1151
282.9	0.1151	0.1150	0.1150
283.0	0.1149	0.1149	0.1149
283.1	0.1148	0.1148	0.1148
283.2	0.1147	0.1147	0.1147
283.3	0.1146	0.1146	0.1146
283.4	0.1145	0.1144	0.1144
283.5	0.1144	0.1143	0.1143
283.6	0.1142	0.1142	0.1142
283.7	0.1141	0.1141	0.1141
283.8	0.1140	0.1140	0.1140
283.9	0.1139	0.1139	0.1139
284.0	0.1138	0.1137	0.1137
284.1	0.1137	0.1136	0.1136
284.2	0.1135	0.1135	0.1135
284.3	0.1134	0.1134	0.1134
284.4	0.1133	0.1133	0.1133
284.5	0.1132	0.1131	0.1131
284.6	0.1131	0.1130	0.1130
284.7	0.1129	0.1129	0.1129
284.8	0.1128	0.1128	0.1128
284.9	0.1127	0.1127	0.1127

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
285.0	0.1126	0.1126	0.1126
285.1	0.1125	0.1124	0.1124
285.2	0.1124	0.1123	0.1123
285.3	0.1122	0.1122	0.1122
285.4	0.1121	0.1121	0.1121
285.5	0.1120	0.1120	0.1120
285.6	0.1119	0.1118	0.1118
285.7	0.1118	0.1117	0.1117
285.8	0.1116	0.1116	0.1116
285.9	0.1115	0.1115	0.1115
286.0	0.1114	0.1114	0.1114
286.1	0.1113	0.1113	0.1113
286.2	0.1112	0.1111	0.1111
286.3	0.1111	0.1110	0.1110
286.4	0.1109	0.1109	0.1109
286.5	0.1108	0.1108	0.1108
286.6	0.1107	0.1107	0.1107
286.7	0.1106	0.1105	0.1105
286.8	0.1105	0.1104	0.1104
286.9	0.1103	0.1103	0.1103
287.0	0.1102	0.1102	0.1102
287.1	0.1101	0.1101	0.1101
287.2	0.1100	0.1100	0.1100
287.3	0.1099	0.1098	0.1098
287.4	0.1097	0.1097	0.1097
287.5	0.1096	0.1096	0.1096
287.6	0.1095	0.1095	0.1095
287.7	0.1094	0.1094	0.1094
287.8	0.1093	0.1092	0.1092
287.9	0.1092	0.1091	0.1091
288.0	0.1090	0.1090	0.1090
288.1	0.1089	0.1089	0.1089
288.2	0.1088	0.1088	0.1088
288.3	0.1087	0.1087	0.1087
288.4	0.1086	0.1085	0.1085
288.5	0.1084	0.1084	0.1084
288.6	0.1083	0.1083	0.1083
288.7	0.1082	0.1082	0.1082
288.8	0.1081	0.1081	0.1081
288.9	0.1080	0.1079	0.1079

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
289.0	0.1079	0.1078	0.1078
289.1	0.1077	0.1077	0.1077
289.2	0.1076	0.1076	0.1076
289.3	0.1075	0.1075	0.1075
289.4	0.1074	0.1074	0.1074
289.5	0.1073	0.1072	0.1072
289.6	0.1071	0.1071	0.1071
289.7	0.1070	0.1070	0.1070
289.8	0.1069	0.1069	0.1069
289.9	0.1068	0.1068	0.1068
290.0	0.1067	0.1066	0.1066
290.1	0.1066	0.1065	0.1065
290.2	0.1064	0.1064	0.1064
290.3	0.1063	0.1063	0.1063
290.4	0.1062	0.1062	0.1062
290.5	0.1061	0.1061	0.1061
290.6	0.1060	0.1059	0.1059
290.7	0.1058	0.1058	0.1058
290.8	0.1057	0.1057	0.1057
290.9	0.1056	0.1056	0.1056
291.0	0.1055	0.1055	0.1055
291.1	0.1054	0.1053	0.1053
291.2	0.1053	0.1052	0.1052
291.3	0.1051	0.1051	0.1051
291.4	0.1050	0.1050	0.1050
291.5	0.1049	0.1049	0.1049
291.6	0.1048	0.1048	0.1048
291.7	0.1047	0.1046	0.1046
291.8	0.1045	0.1045	0.1045
291.9	0.1044	0.1044	0.1044
292.0	0.1043	0.1043	0.1043
292.1	0.1042	0.1042	0.1042
292.2	0.1041	0.1040	0.1040
292.3	0.1040	0.1039	0.1039
292.4	0.1038	0.1038	0.1038
292.5	0.1037	0.1037	0.1037
292.6	0.1036	0.1036	0.1036
292.7	0.1035	0.1035	0.1035
292.8	0.1034	0.1033	0.1033
292.9	0.1032	0.1032	0.1032

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
293.0	0.1031	0.1031	0.1031
293.1	0.1030	0.1030	0.1030
293.2	0.1029	0.1029	0.1029
293.3	0.1028	0.1027	0.1027
293.4	0.1027	0.1026	0.1026
293.5	0.1025	0.1025	0.1025
293.6	0.1024	0.1024	0.1024
293.7	0.1023	0.1023	0.1023
293.8	0.1022	0.1022	0.1022
293.9	0.1021	0.1020	0.1020
294.0	0.1019	0.1019	0.1019
294.1	0.1018	0.1018	0.1018
294.2	0.1017	0.1017	0.1017
294.3	0.1016	0.1016	0.1016
294.4	0.1015	0.1015	0.1015
294.5	0.1014	0.1013	0.1013
294.6	0.1012	0.1012	0.1012
294.7	0.1011	0.1011	0.1011
294.8	0.1010	0.1010	0.1010
294.9	0.1009	0.1009	0.1009
295.0	0.1008	0.1007	0.1007
295.1	0.1006	0.1006	0.1006
295.2	0.1005	0.1005	0.1005
295.3	0.1004	0.1004	0.1004
295.4	0.1003	0.1003	0.1003
295.5	0.1002	0.1002	0.1002
295.6	0.1001	0.1000	0.1000
295.7	0.0999	0.0999	0.0999
295.8	0.0998	0.0998	0.0998
295.9	0.0997	0.0997	0.0997
296.0	0.0996	0.0996	0.0996
296.1	0.0995	0.0994	0.0994
296.2	0.0993	0.0993	0.0993
296.3	0.0992	0.0992	0.0992
296.4	0.0991	0.0991	0.0991
296.5	0.0990	0.0990	0.0990
296.6	0.0989	0.0989	0.0989
296.7	0.0988	0.0987	0.0987
296.8	0.0986	0.0986	0.0986
296.9	0.0985	0.0985	0.0985

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x	$A(x)$	P_{v1}	P_{v2}
297.0	0.0984	0.0984	0.0984
297.1	0.0983	0.0983	0.0983
297.2	0.0982	0.0982	0.0982
297.3	0.0981	0.0980	0.0980
297.4	0.0979	0.0979	0.0979
297.5	0.0978	0.0978	0.0978
297.6	0.0977	0.0977	0.0977
297.7	0.0976	0.0976	0.0976
297.8	0.0975	0.0975	0.0975
297.9	0.0974	0.0973	0.0973
298.0	0.0972	0.0972	0.0972
298.1	0.0971	0.0971	0.0971
298.2	0.0970	0.0970	0.0970
298.3	0.0969	0.0969	0.0969
298.4	0.0968	0.0968	0.0968
298.5	0.0966	0.0966	0.0966
298.6	0.0965	0.0965	0.0965
298.7	0.0964	0.0964	0.0964
298.8	0.0963	0.0963	0.0963
298.9	0.0962	0.0962	0.0962
299.0	0.0961	0.0961	0.0961
299.1	0.0959	0.0959	0.0959
299.2	0.0958	0.0958	0.0958
299.3	0.0957	0.0957	0.0957
299.4	0.0956	0.0956	0.0956
299.5	0.0955	0.0955	0.0955
299.6	0.0954	0.0954	0.0954
299.7	0.0952	0.0952	0.0952
299.8	0.0951	0.0951	0.0951
299.9	0.0950	0.0950	0.0950
300.0	0.0949	0.0949	0.0949
300.1	0.0948	0.0948	0.0948
300.2	0.0947	0.0947	0.0947
300.3	0.0945	0.0945	0.0945
300.4	0.0944	0.0944	0.0944
300.5	0.0943	0.0943	0.0943
300.6	0.0942	0.0942	0.0942
300.7	0.0941	0.0941	0.0941
300.8	0.0940	0.0940	0.0940
300.9	0.0938	0.0938	0.0938

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x	$A(x)$	P_{v1}	P_{v2}
301.0	0.0937	0.0937	0.0937
301.1	0.0936	0.0936	0.0936
301.2	0.0935	0.0935	0.0935
301.3	0.0934	0.0934	0.0934
301.4	0.0933	0.0933	0.0933
301.5	0.0931	0.0931	0.0931
301.6	0.0930	0.0930	0.0930
301.7	0.0929	0.0929	0.0929
301.8	0.0928	0.0928	0.0928
301.9	0.0927	0.0927	0.0927
302.0	0.0926	0.0926	0.0926
302.1	0.0925	0.0924	0.0924
302.2	0.0923	0.0923	0.0923
302.3	0.0922	0.0922	0.0922
302.4	0.0921	0.0921	0.0921
302.5	0.0920	0.0920	0.0920
302.6	0.0919	0.0919	0.0919
302.7	0.0918	0.0917	0.0917
302.8	0.0916	0.0916	0.0916
302.9	0.0915	0.0915	0.0915
303.0	0.0914	0.0914	0.0914
303.1	0.0913	0.0913	0.0913
303.2	0.0912	0.0912	0.0912
303.3	0.0911	0.0911	0.0911
303.4	0.0909	0.0909	0.0909
303.5	0.0908	0.0908	0.0908
303.6	0.0907	0.0907	0.0907
303.7	0.0906	0.0906	0.0906
303.8	0.0905	0.0905	0.0905
303.9	0.0904	0.0904	0.0904
304.0	0.0903	0.0902	0.0902
304.1	0.0901	0.0901	0.0901
304.2	0.0900	0.0900	0.0900
304.3	0.0899	0.0899	0.0899
304.4	0.0898	0.0898	0.0898
304.5	0.0897	0.0897	0.0897
304.6	0.0896	0.0896	0.0896
304.7	0.0894	0.0894	0.0894
304.8	0.0893	0.0893	0.0893
304.9	0.0892	0.0892	0.0892

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x	$A(x)$	P_{v1}	P_{v2}
305.0	0.0891	0.0891	0.0891
305.1	0.0890	0.0890	0.0890
305.2	0.0889	0.0889	0.0889
305.3	0.0888	0.0888	0.0888
305.4	0.0886	0.0886	0.0886
305.5	0.0885	0.0885	0.0885
305.6	0.0884	0.0884	0.0884
305.7	0.0883	0.0883	0.0883
305.8	0.0882	0.0882	0.0882
305.9	0.0881	0.0881	0.0881
306.0	0.0880	0.0880	0.0880
306.1	0.0878	0.0878	0.0878
306.2	0.0877	0.0877	0.0877
306.3	0.0876	0.0876	0.0876
306.4	0.0875	0.0875	0.0875
306.5	0.0874	0.0874	0.0874
306.6	0.0873	0.0873	0.0873
306.7	0.0872	0.0872	0.0872
306.8	0.0870	0.0870	0.0870
306.9	0.0869	0.0869	0.0869
307.0	0.0868	0.0868	0.0868
307.1	0.0867	0.0867	0.0867
307.2	0.0866	0.0866	0.0866
307.3	0.0865	0.0865	0.0865
307.4	0.0864	0.0864	0.0864
307.5	0.0862	0.0862	0.0862
307.6	0.0861	0.0861	0.0861
307.7	0.0860	0.0860	0.0860
307.8	0.0859	0.0859	0.0859
307.9	0.0858	0.0858	0.0858
308.0	0.0857	0.0857	0.0857
308.1	0.0856	0.0856	0.0856
308.2	0.0854	0.0855	0.0855
308.3	0.0853	0.0853	0.0853
308.4	0.0852	0.0852	0.0852
308.5	0.0851	0.0851	0.0851
308.6	0.0850	0.0850	0.0850
308.7	0.0849	0.0849	0.0849
308.8	0.0848	0.0848	0.0848
308.9	0.0847	0.0847	0.0847

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x	$A(x)$	P_{v1}	P_{v2}
309.0	0.0845	0.0845	0.0845
309.1	0.0844	0.0844	0.0844
309.2	0.0843	0.0843	0.0843
309.3	0.0842	0.0842	0.0842
309.4	0.0841	0.0841	0.0841
309.5	0.0840	0.0840	0.0840
309.6	0.0839	0.0839	0.0839
309.7	0.0838	0.0838	0.0838
309.8	0.0836	0.0836	0.0836
309.9	0.0835	0.0835	0.0835
310.0	0.0834	0.0834	0.0834
310.1	0.0833	0.0833	0.0833
310.2	0.0832	0.0832	0.0832
310.3	0.0831	0.0831	0.0831
310.4	0.0830	0.0830	0.0830
310.5	0.0829	0.0829	0.0829
310.6	0.0827	0.0827	0.0827
310.7	0.0826	0.0826	0.0826
310.8	0.0825	0.0825	0.0825
310.9	0.0824	0.0824	0.0824
311.0	0.0823	0.0823	0.0823
311.1	0.0822	0.0822	0.0822
311.2	0.0821	0.0821	0.0821
311.3	0.0820	0.0820	0.0820
311.4	0.0818	0.0819	0.0819
311.5	0.0817	0.0817	0.0817
311.6	0.0816	0.0816	0.0816
311.7	0.0815	0.0815	0.0815
311.8	0.0814	0.0814	0.0814
311.9	0.0813	0.0813	0.0813
312.0	0.0812	0.0812	0.0812
312.1	0.0811	0.0811	0.0811
312.2	0.0810	0.0810	0.0810
312.3	0.0808	0.0808	0.0808
312.4	0.0807	0.0807	0.0807
312.5	0.0806	0.0806	0.0806
312.6	0.0805	0.0805	0.0805
312.7	0.0804	0.0804	0.0804
312.8	0.0803	0.0803	0.0803
312.9	0.0802	0.0802	0.0802

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x	$A(x)$	P_{v1}	P_{v2}
313.0	0.0801	0.0801	0.0801
313.1	0.0800	0.0800	0.0800
313.2	0.0798	0.0799	0.0799
313.3	0.0797	0.0797	0.0797
313.4	0.0796	0.0796	0.0796
313.5	0.0795	0.0795	0.0795
313.6	0.0794	0.0794	0.0794
313.7	0.0793	0.0793	0.0793
313.8	0.0792	0.0792	0.0792
313.9	0.0791	0.0791	0.0791
314.0	0.0790	0.0790	0.0790
314.1	0.0788	0.0789	0.0789
314.2	0.0787	0.0787	0.0787
314.3	0.0786	0.0786	0.0786
314.4	0.0785	0.0785	0.0785
314.5	0.0784	0.0784	0.0784
314.6	0.0783	0.0783	0.0783
314.7	0.0782	0.0782	0.0782
314.8	0.0781	0.0781	0.0781
314.9	0.0780	0.0780	0.0780
315.0	0.0779	0.0779	0.0779
315.1	0.0777	0.0778	0.0778
315.2	0.0776	0.0776	0.0776
315.3	0.0775	0.0775	0.0775
315.4	0.0774	0.0774	0.0774
315.5	0.0773	0.0773	0.0773
315.6	0.0772	0.0772	0.0772
315.7	0.0771	0.0771	0.0771
315.8	0.0770	0.0770	0.0770
315.9	0.0769	0.0769	0.0769
316.0	0.0768	0.0768	0.0768
316.1	0.0767	0.0767	0.0767
316.2	0.0765	0.0766	0.0766
316.3	0.0764	0.0764	0.0764
316.4	0.0763	0.0763	0.0763
316.5	0.0762	0.0762	0.0762
316.6	0.0761	0.0761	0.0761
316.7	0.0760	0.0760	0.0760
316.8	0.0759	0.0759	0.0759
316.9	0.0758	0.0758	0.0758

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x	$A(x)$	P_{v1}	P_{v2}
317.0	0.0757	0.0757	0.0757
317.1	0.0756	0.0756	0.0756
317.2	0.0755	0.0755	0.0755
317.3	0.0754	0.0754	0.0754
317.4	0.0752	0.0753	0.0753
317.5	0.0751	0.0751	0.0751
317.6	0.0750	0.0750	0.0750
317.7	0.0749	0.0749	0.0749
317.8	0.0748	0.0748	0.0748
317.9	0.0747	0.0747	0.0747
318.0	0.0746	0.0746	0.0746
318.1	0.0745	0.0745	0.0745
318.2	0.0744	0.0744	0.0744
318.3	0.0743	0.0743	0.0743
318.4	0.0742	0.0742	0.0742
318.5	0.0741	0.0741	0.0741
318.6	0.0739	0.0740	0.0740
318.7	0.0738	0.0739	0.0739
318.8	0.0737	0.0738	0.0738
318.9	0.0736	0.0736	0.0736
319.0	0.0735	0.0735	0.0735
319.1	0.0734	0.0734	0.0734
319.2	0.0733	0.0733	0.0733
319.3	0.0732	0.0732	0.0732
319.4	0.0731	0.0731	0.0731
319.5	0.0730	0.0730	0.0730
319.6	0.0729	0.0729	0.0729
319.7	0.0728	0.0728	0.0728
319.8	0.0727	0.0727	0.0727
319.9	0.0726	0.0726	0.0726
320.0	0.0725	0.0725	0.0725
320.1	0.0723	0.0724	0.0724
320.2	0.0722	0.0723	0.0723
320.3	0.0721	0.0722	0.0722
320.4	0.0720	0.0720	0.0720
320.5	0.0719	0.0719	0.0719
320.6	0.0718	0.0718	0.0718
320.7	0.0717	0.0717	0.0717
320.8	0.0716	0.0716	0.0716
320.9	0.0715	0.0715	0.0715

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x	$A(x)$	P_{v1}	P_{v2}
321.0	0.0714	0.0714	0.0714
321.1	0.0713	0.0713	0.0713
321.2	0.0712	0.0712	0.0712
321.3	0.0711	0.0711	0.0711
321.4	0.0710	0.0710	0.0710
321.5	0.0709	0.0709	0.0709
321.6	0.0708	0.0708	0.0708
321.7	0.0707	0.0707	0.0707
321.8	0.0705	0.0706	0.0706
321.9	0.0704	0.0705	0.0705
322.0	0.0703	0.0704	0.0704
322.1	0.0702	0.0703	0.0703
322.2	0.0701	0.0702	0.0702
322.3	0.0700	0.0700	0.0700
322.4	0.0699	0.0699	0.0699
322.5	0.0698	0.0698	0.0698
322.6	0.0697	0.0697	0.0697
322.7	0.0696	0.0696	0.0696
322.8	0.0695	0.0695	0.0695
322.9	0.0694	0.0694	0.0694
323.0	0.0693	0.0693	0.0693
323.1	0.0692	0.0692	0.0692
323.2	0.0691	0.0691	0.0691
323.3	0.0690	0.0690	0.0690
323.4	0.0689	0.0689	0.0689
323.5	0.0688	0.0688	0.0688
323.6	0.0687	0.0687	0.0687
323.7	0.0686	0.0686	0.0686
323.8	0.0685	0.0685	0.0685
323.9	0.0684	0.0684	0.0684
324.0	0.0683	0.0683	0.0683
324.1	0.0682	0.0682	0.0682
324.2	0.0680	0.0681	0.0681
324.3	0.0679	0.0680	0.0680
324.4	0.0678	0.0679	0.0679
324.5	0.0677	0.0678	0.0678
324.6	0.0676	0.0677	0.0677
324.7	0.0675	0.0676	0.0676
324.8	0.0674	0.0675	0.0675
324.9	0.0673	0.0674	0.0674

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x	$A(x)$	P_{v1}	P_{v2}
325.0	0.0672	0.0672	0.0672
325.1	0.0671	0.0671	0.0671
325.2	0.0670	0.0670	0.0670
325.3	0.0669	0.0669	0.0669
325.4	0.0668	0.0668	0.0668
325.5	0.0667	0.0667	0.0667
325.6	0.0666	0.0666	0.0666
325.7	0.0665	0.0665	0.0665
325.8	0.0664	0.0664	0.0664
325.9	0.0663	0.0663	0.0663
326.0	0.0662	0.0662	0.0662
326.1	0.0661	0.0661	0.0661
326.2	0.0660	0.0660	0.0660
326.3	0.0659	0.0659	0.0659
326.4	0.0658	0.0658	0.0658
326.5	0.0657	0.0657	0.0657
326.6	0.0656	0.0656	0.0656
326.7	0.0655	0.0655	0.0655
326.8	0.0654	0.0654	0.0654
326.9	0.0653	0.0653	0.0653
327.0	0.0652	0.0652	0.0652
327.1	0.0651	0.0651	0.0651
327.2	0.0650	0.0650	0.0650
327.3	0.0649	0.0649	0.0649
327.4	0.0648	0.0648	0.0648
327.5	0.0647	0.0647	0.0647
327.6	0.0646	0.0646	0.0646
327.7	0.0645	0.0645	0.0645
327.8	0.0644	0.0644	0.0644
327.9	0.0643	0.0643	0.0643
328.0	0.0642	0.0642	0.0642
328.1	0.0641	0.0641	0.0641
328.2	0.0640	0.0640	0.0640
328.3	0.0639	0.0639	0.0639
328.4	0.0638	0.0638	0.0638
328.5	0.0637	0.0637	0.0637
328.6	0.0636	0.0636	0.0636
328.7	0.0635	0.0635	0.0635
328.8	0.0634	0.0634	0.0634
328.9	0.0633	0.0633	0.0633

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x	$A(x)$	P_{v1}	P_{v2}
329.0	0.0632	0.0632	0.0632
329.1	0.0631	0.0631	0.0631
329.2	0.0630	0.0630	0.0630
329.3	0.0629	0.0629	0.0629
329.4	0.0628	0.0628	0.0628
329.5	0.0627	0.0627	0.0627
329.6	0.0626	0.0626	0.0626
329.7	0.0625	0.0625	0.0625
329.8	0.0624	0.0624	0.0624
329.9	0.0623	0.0623	0.0623
330.0	0.0622	0.0622	0.0622
330.1	0.0621	0.0621	0.0621
330.2	0.0620	0.0620	0.0620
330.3	0.0619	0.0619	0.0619
330.4	0.0618	0.0618	0.0618
330.5	0.0617	0.0617	0.0617
330.6	0.0616	0.0616	0.0616
330.7	0.0615	0.0615	0.0615
330.8	0.0614	0.0614	0.0614
330.9	0.0613	0.0613	0.0613
331.0	0.0612	0.0612	0.0612
331.1	0.0611	0.0611	0.0611
331.2	0.0610	0.0610	0.0610
331.3	0.0609	0.0609	0.0609
331.4	0.0608	0.0608	0.0608
331.5	0.0607	0.0607	0.0607
331.6	0.0606	0.0607	0.0607
331.7	0.0605	0.0606	0.0606
331.8	0.0604	0.0605	0.0605
331.9	0.0603	0.0604	0.0604
332.0	0.0602	0.0603	0.0603
332.1	0.0601	0.0602	0.0602
332.2	0.0600	0.0601	0.0601
332.3	0.0599	0.0600	0.0600
332.4	0.0598	0.0599	0.0599
332.5	0.0597	0.0598	0.0598
332.6	0.0597	0.0597	0.0597
332.7	0.0596	0.0596	0.0596
332.8	0.0595	0.0595	0.0595
332.9	0.0594	0.0594	0.0594

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x	$A(x)$	P_{v1}	P_{v2}
333.0	0.0593	0.0593	0.0593
333.1	0.0592	0.0592	0.0592
333.2	0.0591	0.0591	0.0591
333.3	0.0590	0.0590	0.0590
333.4	0.0589	0.0589	0.0589
333.5	0.0588	0.0588	0.0588
333.6	0.0587	0.0587	0.0587
333.7	0.0586	0.0586	0.0586
333.8	0.0585	0.0585	0.0585
333.9	0.0584	0.0584	0.0584
334.0	0.0583	0.0583	0.0583
334.1	0.0582	0.0582	0.0582
334.2	0.0581	0.0582	0.0582
334.3	0.0580	0.0581	0.0581
334.4	0.0579	0.0580	0.0580
334.5	0.0578	0.0579	0.0579
334.6	0.0577	0.0578	0.0578
334.7	0.0576	0.0577	0.0577
334.8	0.0575	0.0576	0.0576
334.9	0.0575	0.0575	0.0575
335.0	0.0574	0.0574	0.0574
335.1	0.0573	0.0573	0.0573
335.2	0.0572	0.0572	0.0572
335.3	0.0571	0.0571	0.0571
335.4	0.0570	0.0570	0.0570
335.5	0.0569	0.0569	0.0569
335.6	0.0568	0.0568	0.0568
335.7	0.0567	0.0567	0.0567
335.8	0.0566	0.0566	0.0566
335.9	0.0565	0.0565	0.0565
336.0	0.0564	0.0565	0.0565
336.1	0.0563	0.0564	0.0564
336.2	0.0562	0.0563	0.0563
336.3	0.0561	0.0562	0.0562
336.4	0.0560	0.0561	0.0561
336.5	0.0560	0.0560	0.0560
336.6	0.0559	0.0559	0.0559
336.7	0.0558	0.0558	0.0558
336.8	0.0557	0.0557	0.0557
336.9	0.0556	0.0556	0.0556

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x	$A(x)$	P_{v1}	P_{v2}
337.0	0.0555	0.0555	0.0555
337.1	0.0554	0.0554	0.0554
337.2	0.0553	0.0553	0.0553
337.3	0.0552	0.0552	0.0552
337.4	0.0551	0.0552	0.0552
337.5	0.0550	0.0551	0.0551
337.6	0.0549	0.0550	0.0550
337.7	0.0548	0.0549	0.0549
337.8	0.0547	0.0548	0.0548
337.9	0.0547	0.0547	0.0547
338.0	0.0546	0.0546	0.0546
338.1	0.0545	0.0545	0.0545
338.2	0.0544	0.0544	0.0544
338.3	0.0543	0.0543	0.0543
338.4	0.0542	0.0542	0.0542
338.5	0.0541	0.0541	0.0541
338.6	0.0540	0.0541	0.0541
338.7	0.0539	0.0540	0.0540
338.8	0.0538	0.0539	0.0539
338.9	0.0537	0.0538	0.0538
339.0	0.0537	0.0537	0.0537
339.1	0.0536	0.0536	0.0536
339.2	0.0535	0.0535	0.0535
339.3	0.0534	0.0534	0.0534
339.4	0.0533	0.0533	0.0533
339.5	0.0532	0.0532	0.0532
339.6	0.0531	0.0531	0.0531
339.7	0.0530	0.0531	0.0531
339.8	0.0529	0.0530	0.0530
339.9	0.0528	0.0529	0.0529
340.0	0.0527	0.0528	0.0528
340.1	0.0527	0.0527	0.0527
340.2	0.0526	0.0526	0.0526
340.3	0.0525	0.0525	0.0525
340.4	0.0524	0.0524	0.0524
340.5	0.0523	0.0523	0.0523
340.6	0.0522	0.0523	0.0523
340.7	0.0521	0.0522	0.0522
340.8	0.0520	0.0521	0.0521
340.9	0.0519	0.0520	0.0520

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
341.0	0.0519	0.0519	0.0519
341.1	0.0518	0.0518	0.0518
341.2	0.0517	0.0517	0.0517
341.3	0.0516	0.0516	0.0516
341.4	0.0515	0.0515	0.0515
341.5	0.0514	0.0515	0.0515
341.6	0.0513	0.0514	0.0514
341.7	0.0512	0.0513	0.0513
341.8	0.0511	0.0512	0.0512
341.9	0.0511	0.0511	0.0511
342.0	0.0510	0.0510	0.0510
342.1	0.0509	0.0509	0.0509
342.2	0.0508	0.0508	0.0508
342.3	0.0507	0.0507	0.0507
342.4	0.0506	0.0507	0.0507
342.5	0.0505	0.0506	0.0506
342.6	0.0504	0.0505	0.0505
342.7	0.0504	0.0504	0.0504
342.8	0.0503	0.0503	0.0503
342.9	0.0502	0.0502	0.0502
343.0	0.0501	0.0501	0.0501
343.1	0.0500	0.0500	0.0500
343.2	0.0499	0.0500	0.0500
343.3	0.0498	0.0499	0.0499
343.4	0.0497	0.0498	0.0498
343.5	0.0497	0.0497	0.0497
343.6	0.0496	0.0496	0.0496
343.7	0.0495	0.0495	0.0495
343.8	0.0494	0.0494	0.0494
343.9	0.0493	0.0494	0.0494
344.0	0.0492	0.0493	0.0493
344.1	0.0491	0.0492	0.0492
344.2	0.0491	0.0491	0.0491
344.3	0.0490	0.0490	0.0490
344.4	0.0489	0.0489	0.0489
344.5	0.0488	0.0488	0.0488
344.6	0.0487	0.0488	0.0488
344.7	0.0486	0.0487	0.0487
344.8	0.0485	0.0486	0.0486
344.9	0.0485	0.0485	0.0485

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
345.0	0.0484	0.0484	0.0484
345.1	0.0483	0.0483	0.0483
345.2	0.0482	0.0482	0.0482
345.3	0.0481	0.0482	0.0482
345.4	0.0480	0.0481	0.0481
345.5	0.0479	0.0480	0.0480
345.6	0.0479	0.0479	0.0479
345.7	0.0478	0.0478	0.0478
345.8	0.0477	0.0477	0.0477
345.9	0.0476	0.0476	0.0476
346.0	0.0475	0.0476	0.0476
346.1	0.0474	0.0475	0.0475
346.2	0.0473	0.0474	0.0474
346.3	0.0473	0.0473	0.0473
346.4	0.0472	0.0472	0.0472
346.5	0.0471	0.0471	0.0471
346.6	0.0470	0.0471	0.0471
346.7	0.0469	0.0470	0.0470
346.8	0.0468	0.0469	0.0469
346.9	0.0468	0.0468	0.0468
347.0	0.0467	0.0467	0.0467
347.1	0.0466	0.0466	0.0466
347.2	0.0465	0.0466	0.0466
347.3	0.0464	0.0465	0.0465
347.4	0.0463	0.0464	0.0464
347.5	0.0463	0.0463	0.0463
347.6	0.0462	0.0462	0.0462
347.7	0.0461	0.0461	0.0461
347.8	0.0460	0.0461	0.0461
347.9	0.0459	0.0460	0.0460
348.0	0.0458	0.0459	0.0459
348.1	0.0458	0.0458	0.0458
348.2	0.0457	0.0457	0.0457
348.3	0.0456	0.0456	0.0456
348.4	0.0455	0.0456	0.0456
348.5	0.0454	0.0455	0.0455
348.6	0.0454	0.0454	0.0454
348.7	0.0453	0.0453	0.0453
348.8	0.0452	0.0452	0.0452
348.9	0.0451	0.0452	0.0452

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x	$A(x)$	P_{v1}	P_{v2}
349.0	0.0450	0.0451	0.0451
349.1	0.0449	0.0450	0.0450
349.2	0.0449	0.0449	0.0449
349.3	0.0448	0.0448	0.0448
349.4	0.0447	0.0448	0.0448
349.5	0.0446	0.0447	0.0447
349.6	0.0445	0.0446	0.0446
349.7	0.0445	0.0445	0.0445
349.8	0.0444	0.0444	0.0444
349.9	0.0443	0.0443	0.0443
350.0	0.0442	0.0443	0.0443
350.1	0.0441	0.0442	0.0442
350.2	0.0441	0.0441	0.0441
350.3	0.0440	0.0440	0.0440
350.4	0.0439	0.0439	0.0439
350.5	0.0438	0.0439	0.0439
350.6	0.0437	0.0438	0.0438
350.7	0.0437	0.0437	0.0437
350.8	0.0436	0.0436	0.0436
350.9	0.0435	0.0435	0.0435
351.0	0.0434	0.0435	0.0435
351.1	0.0433	0.0434	0.0434
351.2	0.0433	0.0433	0.0433
351.3	0.0432	0.0432	0.0432
351.4	0.0431	0.0431	0.0431
351.5	0.0430	0.0431	0.0431
351.6	0.0429	0.0430	0.0430
351.7	0.0429	0.0429	0.0429
351.8	0.0428	0.0428	0.0428
351.9	0.0427	0.0428	0.0428
352.0	0.0426	0.0427	0.0427
352.1	0.0425	0.0426	0.0426
352.2	0.0425	0.0425	0.0425
352.3	0.0424	0.0424	0.0424
352.4	0.0423	0.0424	0.0424
352.5	0.0422	0.0423	0.0423
352.6	0.0422	0.0422	0.0422
352.7	0.0421	0.0421	0.0421
352.8	0.0420	0.0420	0.0420
352.9	0.0419	0.0420	0.0420

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
353.0	0.0418	0.0419	0.0419
353.1	0.0418	0.0418	0.0418
353.2	0.0417	0.0417	0.0417
353.3	0.0416	0.0417	0.0417
353.4	0.0415	0.0416	0.0416
353.5	0.0415	0.0415	0.0415
353.6	0.0414	0.0414	0.0414
353.7	0.0413	0.0413	0.0413
353.8	0.0412	0.0413	0.0413
353.9	0.0411	0.0412	0.0412
354.0	0.0411	0.0411	0.0411
354.1	0.0410	0.0410	0.0410
354.2	0.0409	0.0410	0.0410
354.3	0.0408	0.0409	0.0409
354.4	0.0408	0.0408	0.0408
354.5	0.0407	0.0407	0.0407
354.6	0.0406	0.0407	0.0407
354.7	0.0405	0.0406	0.0406
354.8	0.0405	0.0405	0.0405
354.9	0.0404	0.0404	0.0404
355.0	0.0403	0.0404	0.0404
355.1	0.0402	0.0403	0.0403
355.2	0.0402	0.0402	0.0402
355.3	0.0401	0.0401	0.0401
355.4	0.0400	0.0401	0.0401
355.5	0.0399	0.0400	0.0400
355.6	0.0399	0.0399	0.0399
355.7	0.0398	0.0398	0.0398
355.8	0.0397	0.0398	0.0398
355.9	0.0396	0.0397	0.0397
356.0	0.0396	0.0396	0.0396
356.1	0.0395	0.0395	0.0395
356.2	0.0394	0.0395	0.0395
356.3	0.0393	0.0394	0.0394
356.4	0.0393	0.0393	0.0393
356.5	0.0392	0.0392	0.0392
356.6	0.0391	0.0392	0.0392
356.7	0.0390	0.0391	0.0391
356.8	0.0390	0.0390	0.0390
356.9	0.0389	0.0389	0.0389

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x	$A(x)$	P_{v1}	P_{v2}
357.0	0.0388	0.0389	0.0389
357.1	0.0387	0.0388	0.0388
357.2	0.0387	0.0387	0.0387
357.3	0.0386	0.0386	0.0386
357.4	0.0385	0.0386	0.0386
357.5	0.0384	0.0385	0.0385
357.6	0.0384	0.0384	0.0384
357.7	0.0383	0.0383	0.0383
357.8	0.0382	0.0383	0.0383
357.9	0.0381	0.0382	0.0382
358.0	0.0381	0.0381	0.0381
358.1	0.0380	0.0381	0.0381
358.2	0.0379	0.0380	0.0380
358.3	0.0379	0.0379	0.0379
358.4	0.0378	0.0378	0.0378
358.5	0.0377	0.0378	0.0378
358.6	0.0376	0.0377	0.0377
358.7	0.0376	0.0376	0.0376
358.8	0.0375	0.0375	0.0375
358.9	0.0374	0.0375	0.0375
359.0	0.0373	0.0374	0.0374
359.1	0.0373	0.0373	0.0373
359.2	0.0372	0.0373	0.0373
359.3	0.0371	0.0372	0.0372
359.4	0.0371	0.0371	0.0371
359.5	0.0370	0.0370	0.0370
359.6	0.0369	0.0370	0.0370
359.7	0.0368	0.0369	0.0369
359.8	0.0368	0.0368	0.0368
359.9	0.0367	0.0368	0.0368
360.0	0.0366	0.0367	0.0367
360.1	0.0366	0.0366	0.0366
360.2	0.0365	0.0365	0.0365
360.3	0.0364	0.0365	0.0365
360.4	0.0363	0.0364	0.0364
360.5	0.0363	0.0363	0.0363
360.6	0.0362	0.0363	0.0363
360.7	0.0361	0.0362	0.0362
360.8	0.0361	0.0361	0.0361
360.9	0.0360	0.0360	0.0360

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x	$A(x)$	P_{v1}	P_{v2}
361.0	0.0359	0.0360	0.0360
361.1	0.0359	0.0359	0.0359
361.2	0.0358	0.0358	0.0358
361.3	0.0357	0.0358	0.0358
361.4	0.0356	0.0357	0.0357
361.5	0.0356	0.0356	0.0356
361.6	0.0355	0.0356	0.0356
361.7	0.0354	0.0355	0.0355
361.8	0.0354	0.0354	0.0354
361.9	0.0353	0.0354	0.0354
362.0	0.0352	0.0353	0.0353
362.1	0.0352	0.0352	0.0352
362.2	0.0351	0.0351	0.0351
362.3	0.0350	0.0351	0.0351
362.4	0.0350	0.0350	0.0350
362.5	0.0349	0.0349	0.0349
362.6	0.0348	0.0349	0.0349
362.7	0.0347	0.0348	0.0348
362.8	0.0347	0.0347	0.0347
362.9	0.0346	0.0347	0.0347
363.0	0.0345	0.0346	0.0346
363.1	0.0345	0.0345	0.0345
363.2	0.0344	0.0345	0.0345
363.3	0.0343	0.0344	0.0344
363.4	0.0343	0.0343	0.0343
363.5	0.0342	0.0343	0.0343
363.6	0.0341	0.0342	0.0342
363.7	0.0341	0.0341	0.0341
363.8	0.0340	0.0341	0.0341
363.9	0.0339	0.0340	0.0340
364.0	0.0339	0.0339	0.0339
364.1	0.0338	0.0339	0.0339
364.2	0.0337	0.0338	0.0338
364.3	0.0337	0.0337	0.0337
364.4	0.0336	0.0337	0.0337
364.5	0.0335	0.0336	0.0336
364.6	0.0335	0.0335	0.0335
364.7	0.0334	0.0335	0.0335
364.8	0.0333	0.0334	0.0334
364.9	0.0333	0.0333	0.0333

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x	$A(x)$	P_{v1}	P_{v2}
365.0	0.0332	0.0333	0.0333
365.1	0.0331	0.0332	0.0332
365.2	0.0331	0.0331	0.0331
365.3	0.0330	0.0331	0.0331
365.4	0.0329	0.0330	0.0330
365.5	0.0329	0.0329	0.0329
365.6	0.0328	0.0329	0.0329
365.7	0.0327	0.0328	0.0328
365.8	0.0327	0.0327	0.0327
365.9	0.0326	0.0327	0.0327
366.0	0.0325	0.0326	0.0326
366.1	0.0325	0.0325	0.0325
366.2	0.0324	0.0325	0.0325
366.3	0.0323	0.0324	0.0324
366.4	0.0323	0.0323	0.0323
366.5	0.0322	0.0323	0.0323
366.6	0.0321	0.0322	0.0322
366.7	0.0321	0.0321	0.0321
366.8	0.0320	0.0321	0.0321
366.9	0.0320	0.0320	0.0320
367.0	0.0319	0.0319	0.0319
367.1	0.0318	0.0319	0.0319
367.2	0.0318	0.0318	0.0318
367.3	0.0317	0.0317	0.0317
367.4	0.0316	0.0317	0.0317
367.5	0.0316	0.0316	0.0316
367.6	0.0315	0.0316	0.0316
367.7	0.0314	0.0315	0.0315
367.8	0.0314	0.0314	0.0314
367.9	0.0313	0.0314	0.0314
368.0	0.0312	0.0313	0.0313
368.1	0.0312	0.0312	0.0312
368.2	0.0311	0.0312	0.0312
368.3	0.0311	0.0311	0.0311
368.4	0.0310	0.0310	0.0310
368.5	0.0309	0.0310	0.0310
368.6	0.0309	0.0309	0.0309
368.7	0.0308	0.0309	0.0309
368.8	0.0307	0.0308	0.0308
368.9	0.0307	0.0307	0.0307

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
369.0	0.0306	0.0307	0.0307
369.1	0.0306	0.0306	0.0306
369.2	0.0305	0.0305	0.0305
369.3	0.0304	0.0305	0.0305
369.4	0.0304	0.0304	0.0304
369.5	0.0303	0.0304	0.0304
369.6	0.0302	0.0303	0.0303
369.7	0.0302	0.0302	0.0302
369.8	0.0301	0.0302	0.0302
369.9	0.0301	0.0301	0.0301
370.0	0.0300	0.0301	0.0301
370.1	0.0299	0.0300	0.0300
370.2	0.0299	0.0299	0.0299
370.3	0.0298	0.0299	0.0299
370.4	0.0297	0.0298	0.0298
370.5	0.0297	0.0297	0.0297
370.6	0.0296	0.0297	0.0297
370.7	0.0296	0.0296	0.0296
370.8	0.0295	0.0296	0.0296
370.9	0.0294	0.0295	0.0295
371.0	0.0294	0.0294	0.0294
371.1	0.0293	0.0294	0.0294
371.2	0.0293	0.0293	0.0293
371.3	0.0292	0.0293	0.0293
371.4	0.0291	0.0292	0.0292
371.5	0.0291	0.0291	0.0291
371.6	0.0290	0.0291	0.0291
371.7	0.0290	0.0290	0.0290
371.8	0.0289	0.0290	0.0290
371.9	0.0288	0.0289	0.0289
372.0	0.0288	0.0288	0.0288
372.1	0.0287	0.0288	0.0288
372.2	0.0287	0.0287	0.0287
372.3	0.0286	0.0287	0.0287
372.4	0.0285	0.0286	0.0286
372.5	0.0285	0.0285	0.0285
372.6	0.0284	0.0285	0.0285
372.7	0.0284	0.0284	0.0284
372.8	0.0283	0.0284	0.0284
372.9	0.0282	0.0283	0.0283

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
373.0	0.0282	0.0282	0.0282
373.1	0.0281	0.0282	0.0282
373.2	0.0281	0.0281	0.0281
373.3	0.0280	0.0281	0.0281
373.4	0.0279	0.0280	0.0280
373.5	0.0279	0.0279	0.0279
373.6	0.0278	0.0279	0.0279
373.7	0.0278	0.0278	0.0278
373.8	0.0277	0.0278	0.0278
373.9	0.0277	0.0277	0.0277
374.0	0.0276	0.0277	0.0277
374.1	0.0275	0.0276	0.0276
374.2	0.0275	0.0275	0.0275
374.3	0.0274	0.0275	0.0275
374.4	0.0274	0.0274	0.0274
374.5	0.0273	0.0274	0.0274
374.6	0.0273	0.0273	0.0273
374.7	0.0272	0.0273	0.0273
374.8	0.0271	0.0272	0.0272
374.9	0.0271	0.0271	0.0271
375.0	0.0270	0.0271	0.0271
375.1	0.0270	0.0270	0.0270
375.2	0.0269	0.0270	0.0270
375.3	0.0269	0.0269	0.0269
375.4	0.0268	0.0269	0.0269
375.5	0.0267	0.0268	0.0268
375.6	0.0267	0.0267	0.0267
375.7	0.0266	0.0267	0.0267
375.8	0.0266	0.0266	0.0266
375.9	0.0265	0.0266	0.0266
376.0	0.0265	0.0265	0.0265
376.1	0.0264	0.0265	0.0265
376.2	0.0263	0.0264	0.0264
376.3	0.0263	0.0263	0.0263
376.4	0.0262	0.0263	0.0263
376.5	0.0262	0.0262	0.0262
376.6	0.0261	0.0262	0.0262
376.7	0.0261	0.0261	0.0261
376.8	0.0260	0.0261	0.0261
376.9	0.0260	0.0260	0.0260

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
377.0	0.0259	0.0260	0.0260
377.1	0.0258	0.0259	0.0259
377.2	0.0258	0.0258	0.0258
377.3	0.0257	0.0258	0.0258
377.4	0.0257	0.0257	0.0257
377.5	0.0256	0.0257	0.0257
377.6	0.0256	0.0256	0.0256
377.7	0.0255	0.0256	0.0256
377.8	0.0255	0.0255	0.0255
377.9	0.0254	0.0255	0.0255
378.0	0.0253	0.0254	0.0254
378.1	0.0253	0.0253	0.0253
378.2	0.0252	0.0253	0.0253
378.3	0.0252	0.0252	0.0252
378.4	0.0251	0.0252	0.0252
378.5	0.0251	0.0251	0.0251
378.6	0.0250	0.0251	0.0251
378.7	0.0250	0.0250	0.0250
378.8	0.0249	0.0250	0.0250
378.9	0.0249	0.0249	0.0249
379.0	0.0248	0.0249	0.0249
379.1	0.0248	0.0248	0.0248
379.2	0.0247	0.0248	0.0248
379.3	0.0246	0.0247	0.0247
379.4	0.0246	0.0246	0.0246
379.5	0.0245	0.0246	0.0246
379.6	0.0245	0.0245	0.0245
379.7	0.0244	0.0245	0.0245
379.8	0.0244	0.0244	0.0244
379.9	0.0243	0.0244	0.0244
380.0	0.0243	0.0243	0.0243
380.1	0.0242	0.0243	0.0243
380.2	0.0242	0.0242	0.0242
380.3	0.0241	0.0242	0.0242
380.4	0.0241	0.0241	0.0241
380.5	0.0240	0.0241	0.0241
380.6	0.0240	0.0240	0.0240
380.7	0.0239	0.0240	0.0240
380.8	0.0239	0.0239	0.0239
380.9	0.0238	0.0239	0.0239

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
381.0	0.0238	0.0238	0.0238
381.1	0.0237	0.0238	0.0238
381.2	0.0236	0.0237	0.0237
381.3	0.0236	0.0237	0.0237
381.4	0.0235	0.0236	0.0236
381.5	0.0235	0.0235	0.0235
381.6	0.0234	0.0235	0.0235
381.7	0.0234	0.0234	0.0234
381.8	0.0233	0.0234	0.0234
381.9	0.0233	0.0233	0.0233
382.0	0.0232	0.0233	0.0233
382.1	0.0232	0.0232	0.0232
382.2	0.0231	0.0232	0.0232
382.3	0.0231	0.0231	0.0231
382.4	0.0230	0.0231	0.0231
382.5	0.0230	0.0230	0.0230
382.6	0.0229	0.0230	0.0230
382.7	0.0229	0.0229	0.0229
382.8	0.0228	0.0229	0.0229
382.9	0.0228	0.0228	0.0228
383.0	0.0227	0.0228	0.0228
383.1	0.0227	0.0227	0.0227
383.2	0.0226	0.0227	0.0227
383.3	0.0226	0.0226	0.0226
383.4	0.0225	0.0226	0.0226
383.5	0.0225	0.0225	0.0225
383.6	0.0224	0.0225	0.0225
383.7	0.0224	0.0224	0.0224
383.8	0.0223	0.0224	0.0224
383.9	0.0223	0.0223	0.0223
384.0	0.0222	0.0223	0.0223
384.1	0.0222	0.0222	0.0222
384.2	0.0221	0.0222	0.0222
384.3	0.0221	0.0221	0.0221
384.4	0.0220	0.0221	0.0221
384.5	0.0220	0.0220	0.0220
384.6	0.0219	0.0220	0.0220
384.7	0.0219	0.0219	0.0219
384.8	0.0218	0.0219	0.0219
384.9	0.0218	0.0218	0.0218

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
385.0	0.0217	0.0218	0.0218
385.1	0.0217	0.0218	0.0218
385.2	0.0216	0.0217	0.0217
385.3	0.0216	0.0217	0.0217
385.4	0.0215	0.0216	0.0216
385.5	0.0215	0.0216	0.0216
385.6	0.0215	0.0215	0.0215
385.7	0.0214	0.0215	0.0215
385.8	0.0214	0.0214	0.0214
385.9	0.0213	0.0214	0.0214
386.0	0.0213	0.0213	0.0213
386.1	0.0212	0.0213	0.0213
386.2	0.0212	0.0212	0.0212
386.3	0.0211	0.0212	0.0212
386.4	0.0211	0.0211	0.0211
386.5	0.0210	0.0211	0.0211
386.6	0.0210	0.0210	0.0210
386.7	0.0209	0.0210	0.0210
386.8	0.0209	0.0209	0.0209
386.9	0.0208	0.0209	0.0209
387.0	0.0208	0.0208	0.0208
387.1	0.0207	0.0208	0.0208
387.2	0.0207	0.0208	0.0208
387.3	0.0206	0.0207	0.0207
387.4	0.0206	0.0207	0.0207
387.5	0.0206	0.0206	0.0206
387.6	0.0205	0.0206	0.0206
387.7	0.0205	0.0205	0.0205
387.8	0.0204	0.0205	0.0205
387.9	0.0204	0.0204	0.0204
388.0	0.0203	0.0204	0.0204
388.1	0.0203	0.0203	0.0203
388.2	0.0202	0.0203	0.0203
388.3	0.0202	0.0202	0.0202
388.4	0.0201	0.0202	0.0202
388.5	0.0201	0.0201	0.0201
388.6	0.0200	0.0201	0.0201
388.7	0.0200	0.0201	0.0201
388.8	0.0200	0.0200	0.0200
388.9	0.0199	0.0200	0.0200

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
389.0	0.0199	0.0199	0.0199
389.1	0.0198	0.0199	0.0199
389.2	0.0198	0.0198	0.0198
389.3	0.0197	0.0198	0.0198
389.4	0.0197	0.0197	0.0197
389.5	0.0196	0.0197	0.0197
389.6	0.0196	0.0197	0.0197
389.7	0.0196	0.0196	0.0196
389.8	0.0195	0.0196	0.0196
389.9	0.0195	0.0195	0.0195
390.0	0.0194	0.0195	0.0195
390.1	0.0194	0.0194	0.0194
390.2	0.0193	0.0194	0.0194
390.3	0.0193	0.0193	0.0193
390.4	0.0192	0.0193	0.0193
390.5	0.0192	0.0193	0.0193
390.6	0.0192	0.0192	0.0192
390.7	0.0191	0.0192	0.0192
390.8	0.0191	0.0191	0.0191
390.9	0.0190	0.0191	0.0191
391.0	0.0190	0.0190	0.0190
391.1	0.0189	0.0190	0.0190
391.2	0.0189	0.0189	0.0189
391.3	0.0188	0.0189	0.0189
391.4	0.0188	0.0189	0.0189
391.5	0.0188	0.0188	0.0188
391.6	0.0187	0.0188	0.0188
391.7	0.0187	0.0187	0.0187
391.8	0.0186	0.0187	0.0187
391.9	0.0186	0.0186	0.0186
392.0	0.0185	0.0186	0.0186
392.1	0.0185	0.0186	0.0186
392.2	0.0185	0.0185	0.0185
392.3	0.0184	0.0185	0.0185
392.4	0.0184	0.0184	0.0184
392.5	0.0183	0.0184	0.0184
392.6	0.0183	0.0183	0.0183
392.7	0.0182	0.0183	0.0183
392.8	0.0182	0.0183	0.0183
392.9	0.0182	0.0182	0.0182

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
393.0	0.0181	0.0182	0.0182
393.1	0.0181	0.0181	0.0181
393.2	0.0180	0.0181	0.0181
393.3	0.0180	0.0180	0.0180
393.4	0.0180	0.0180	0.0180
393.5	0.0179	0.0180	0.0180
393.6	0.0179	0.0179	0.0179
393.7	0.0178	0.0179	0.0179
393.8	0.0178	0.0178	0.0178
393.9	0.0177	0.0178	0.0178
394.0	0.0177	0.0178	0.0178
394.1	0.0177	0.0177	0.0177
394.2	0.0176	0.0177	0.0177
394.3	0.0176	0.0176	0.0176
394.4	0.0175	0.0176	0.0176
394.5	0.0175	0.0176	0.0176
394.6	0.0175	0.0175	0.0175
394.7	0.0174	0.0175	0.0175
394.8	0.0174	0.0174	0.0174
394.9	0.0173	0.0174	0.0174
395.0	0.0173	0.0173	0.0173
395.1	0.0173	0.0173	0.0173
395.2	0.0172	0.0173	0.0173
395.3	0.0172	0.0172	0.0172
395.4	0.0171	0.0172	0.0172
395.5	0.0171	0.0171	0.0171
395.6	0.0171	0.0171	0.0171
395.7	0.0170	0.0171	0.0171
395.8	0.0170	0.0170	0.0170
395.9	0.0169	0.0170	0.0170
396.0	0.0169	0.0169	0.0169
396.1	0.0169	0.0169	0.0169
396.2	0.0168	0.0169	0.0169
396.3	0.0168	0.0168	0.0168
396.4	0.0167	0.0168	0.0168
396.5	0.0167	0.0167	0.0167
396.6	0.0167	0.0167	0.0167
396.7	0.0166	0.0167	0.0167
396.8	0.0166	0.0166	0.0166
396.9	0.0165	0.0166	0.0166

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
397.0	0.0165	0.0165	0.0165
397.1	0.0165	0.0165	0.0165
397.2	0.0164	0.0165	0.0165
397.3	0.0164	0.0164	0.0164
397.4	0.0163	0.0164	0.0164
397.5	0.0163	0.0164	0.0164
397.6	0.0163	0.0163	0.0163
397.7	0.0162	0.0163	0.0163
397.8	0.0162	0.0162	0.0162
397.9	0.0161	0.0162	0.0162
398.0	0.0161	0.0162	0.0162
398.1	0.0161	0.0161	0.0161
398.2	0.0160	0.0161	0.0161
398.3	0.0160	0.0160	0.0160
398.4	0.0160	0.0160	0.0160
398.5	0.0159	0.0160	0.0160
398.6	0.0159	0.0159	0.0159
398.7	0.0158	0.0159	0.0159
398.8	0.0158	0.0159	0.0159
398.9	0.0158	0.0158	0.0158
399.0	0.0157	0.0158	0.0158
399.1	0.0157	0.0157	0.0157
399.2	0.0157	0.0157	0.0157
399.3	0.0156	0.0157	0.0157
399.4	0.0156	0.0156	0.0156
399.5	0.0155	0.0156	0.0156
399.6	0.0155	0.0156	0.0156
399.7	0.0155	0.0155	0.0155
399.8	0.0154	0.0155	0.0155
399.9	0.0154	0.0154	0.0154
400.0	0.0154	0.0154	0.0154

Table B.6.12: Output for Problem 6.1.2-L02

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0149	0.0149
1.0	0.0153	0.0153	0.0153
2.0	0.0156	0.0156	0.0156
3.0	0.0160	0.0160	0.0160

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
4.0	0.0164	0.0164	0.0164
5.0	0.0168	0.0168	0.0168
6.0	0.0172	0.0173	0.0173
7.0	0.0177	0.0177	0.0177
8.0	0.0181	0.0181	0.0181
9.0	0.0185	0.0185	0.0185
10.0	0.0190	0.0190	0.0190
11.0	0.0194	0.0194	0.0194
12.0	0.0199	0.0199	0.0199
13.0	0.0204	0.0204	0.0204
14.0	0.0209	0.0209	0.0209
15.0	0.0213	0.0214	0.0214
16.0	0.0218	0.0218	0.0218
17.0	0.0223	0.0224	0.0224
18.0	0.0229	0.0229	0.0229
19.0	0.0234	0.0234	0.0234
20.0	0.0239	0.0239	0.0239
21.0	0.0245	0.0245	0.0245
22.0	0.0250	0.0250	0.0250
23.0	0.0256	0.0256	0.0256
24.0	0.0261	0.0262	0.0262
25.0	0.0267	0.0267	0.0267
26.0	0.0273	0.0273	0.0273
27.0	0.0279	0.0279	0.0279
28.0	0.0285	0.0285	0.0285
29.0	0.0291	0.0291	0.0291
30.0	0.0298	0.0298	0.0298
31.0	0.0304	0.0304	0.0304
32.0	0.0310	0.0310	0.0310
33.0	0.0317	0.0317	0.0317
34.0	0.0324	0.0324	0.0324
35.0	0.0330	0.0330	0.0330
36.0	0.0337	0.0337	0.0337
37.0	0.0344	0.0344	0.0344
38.0	0.0351	0.0351	0.0351
39.0	0.0358	0.0358	0.0358
40.0	0.0365	0.0366	0.0366
41.0	0.0373	0.0373	0.0373
42.0	0.0380	0.0380	0.0380
43.0	0.0388	0.0388	0.0388

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
44.0	0.0395	0.0396	0.0396
45.0	0.0403	0.0403	0.0403
46.0	0.0411	0.0411	0.0411
47.0	0.0419	0.0419	0.0419
48.0	0.0427	0.0427	0.0427
49.0	0.0435	0.0435	0.0435
50.0	0.0443	0.0444	0.0444
51.0	0.0452	0.0452	0.0452
52.0	0.0460	0.0460	0.0460
53.0	0.0469	0.0469	0.0469
54.0	0.0477	0.0477	0.0477
55.0	0.0486	0.0486	0.0486
56.0	0.0495	0.0495	0.0495
57.0	0.0504	0.0504	0.0504
58.0	0.0513	0.0513	0.0513
59.0	0.0522	0.0522	0.0522
60.0	0.0531	0.0531	0.0531
61.0	0.0540	0.0540	0.0540
62.0	0.0550	0.0550	0.0550
63.0	0.0559	0.0559	0.0559
64.0	0.0569	0.0569	0.0569
65.0	0.0578	0.0579	0.0579
66.0	0.0588	0.0588	0.0588
67.0	0.0598	0.0598	0.0598
68.0	0.0608	0.0608	0.0608
69.0	0.0618	0.0618	0.0618
70.0	0.0628	0.0628	0.0628
71.0	0.0638	0.0638	0.0638
72.0	0.0648	0.0649	0.0649
73.0	0.0659	0.0659	0.0659
74.0	0.0669	0.0669	0.0669
75.0	0.0680	0.0680	0.0680
76.0	0.0690	0.0690	0.0690
77.0	0.0701	0.0701	0.0701
78.0	0.0712	0.0712	0.0712
79.0	0.0722	0.0723	0.0723
80.0	0.0733	0.0734	0.0734
81.0	0.0744	0.0744	0.0744
82.0	0.0755	0.0755	0.0755
83.0	0.0766	0.0767	0.0767

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
84.0	0.0777	0.0778	0.0778
85.0	0.0789	0.0789	0.0789
86.0	0.0800	0.0800	0.0800
87.0	0.0811	0.0811	0.0811
88.0	0.0823	0.0823	0.0823
89.0	0.0834	0.0834	0.0834
90.0	0.0845	0.0846	0.0846
91.0	0.0857	0.0857	0.0857
92.0	0.0869	0.0869	0.0869
93.0	0.0880	0.0881	0.0881
94.0	0.0892	0.0892	0.0892
95.0	0.0904	0.0904	0.0904
96.0	0.0915	0.0916	0.0916
97.0	0.0927	0.0927	0.0927
98.0	0.0939	0.0939	0.0939
99.0	0.0951	0.0951	0.0951
100.0	0.0963	0.0963	0.0963
101.0	0.0975	0.0975	0.0975
102.0	0.0987	0.0987	0.0987
103.0	0.0999	0.0999	0.0999
104.0	0.1011	0.1011	0.1011
105.0	0.1022	0.1023	0.1023
106.0	0.1034	0.1035	0.1035
107.0	0.1046	0.1047	0.1047
108.0	0.1059	0.1059	0.1059
109.0	0.1071	0.1071	0.1071
110.0	0.1083	0.1083	0.1083
111.0	0.1095	0.1095	0.1095
112.0	0.1107	0.1107	0.1107
113.0	0.1119	0.1119	0.1119
114.0	0.1131	0.1131	0.1131
115.0	0.1143	0.1143	0.1143
116.0	0.1154	0.1155	0.1155
117.0	0.1166	0.1167	0.1167
118.0	0.1178	0.1179	0.1179
119.0	0.1190	0.1190	0.1190
120.0	0.1202	0.1202	0.1202
121.0	0.1214	0.1214	0.1214
122.0	0.1226	0.1226	0.1226
123.0	0.1237	0.1238	0.1238

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
124.0	0.1249	0.1249	0.1249
125.0	0.1261	0.1261	0.1261
126.0	0.1272	0.1272	0.1272
127.0	0.1284	0.1284	0.1284
128.0	0.1295	0.1296	0.1296
129.0	0.1307	0.1307	0.1307
130.0	0.1318	0.1318	0.1318
131.0	0.1329	0.1330	0.1330
132.0	0.1341	0.1341	0.1341
133.0	0.1352	0.1352	0.1352
134.0	0.1363	0.1363	0.1363
135.0	0.1374	0.1374	0.1374
136.0	0.1385	0.1385	0.1385
137.0	0.1396	0.1396	0.1396
138.0	0.1406	0.1406	0.1406
139.0	0.1417	0.1417	0.1417
140.0	0.1427	0.1427	0.1427
141.0	0.1438	0.1438	0.1438
142.0	0.1448	0.1448	0.1448
143.0	0.1458	0.1458	0.1458
144.0	0.1468	0.1468	0.1468
145.0	0.1478	0.1478	0.1478
146.0	0.1488	0.1488	0.1488
147.0	0.1498	0.1498	0.1498
148.0	0.1508	0.1508	0.1508
149.0	0.1517	0.1517	0.1517
150.0	0.1527	0.1526	0.1526
151.0	0.1536	0.1536	0.1536
152.0	0.1545	0.1545	0.1545
153.0	0.1554	0.1554	0.1554
154.0	0.1563	0.1562	0.1562
155.0	0.1571	0.1571	0.1571
156.0	0.1580	0.1580	0.1580
157.0	0.1588	0.1588	0.1588
158.0	0.1596	0.1596	0.1596
159.0	0.1604	0.1604	0.1604
160.0	0.1612	0.1612	0.1612
161.0	0.1620	0.1620	0.1620
162.0	0.1628	0.1627	0.1627
163.0	0.1635	0.1635	0.1635

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
164.0	0.1642	0.1642	0.1642
165.0	0.1649	0.1649	0.1649
166.0	0.1656	0.1656	0.1656
167.0	0.1663	0.1662	0.1662
168.0	0.1669	0.1669	0.1669
169.0	0.1676	0.1675	0.1675
170.0	0.1682	0.1681	0.1681
171.0	0.1688	0.1687	0.1687
172.0	0.1693	0.1693	0.1693
173.0	0.1699	0.1699	0.1699
174.0	0.1704	0.1704	0.1704
175.0	0.1710	0.1709	0.1709
176.0	0.1715	0.1714	0.1714
177.0	0.1719	0.1719	0.1719
178.0	0.1724	0.1723	0.1723
179.0	0.1728	0.1728	0.1728
180.0	0.1732	0.1732	0.1732
181.0	0.1736	0.1736	0.1736
182.0	0.1740	0.1740	0.1740
183.0	0.1744	0.1743	0.1743
184.0	0.1747	0.1746	0.1746
185.0	0.1750	0.1750	0.1750
186.0	0.1753	0.1753	0.1753
187.0	0.1756	0.1755	0.1755
188.0	0.1758	0.1758	0.1758
189.0	0.1761	0.1760	0.1760
190.0	0.1763	0.1762	0.1762
191.0	0.1765	0.1764	0.1764
192.0	0.1766	0.1765	0.1765
193.0	0.1768	0.1767	0.1767
194.0	0.1769	0.1768	0.1768
195.0	0.1770	0.1769	0.1769
196.0	0.1771	0.1770	0.1770
197.0	0.1771	0.1770	0.1770
198.0	0.1771	0.1771	0.1771
199.0	0.1772	0.1771	0.1771
200.0	0.1771	0.1771	0.1771
201.0	0.1771	0.1770	0.1770
202.0	0.1771	0.1770	0.1770
203.0	0.1770	0.1769	0.1769

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
204.0	0.1769	0.1768	0.1768
205.0	0.1768	0.1767	0.1767
206.0	0.1766	0.1765	0.1765
207.0	0.1765	0.1764	0.1764
208.0	0.1763	0.1762	0.1762
209.0	0.1761	0.1760	0.1760
210.0	0.1758	0.1757	0.1757
211.0	0.1756	0.1755	0.1755
212.0	0.1753	0.1752	0.1752
213.0	0.1750	0.1749	0.1749
214.0	0.1747	0.1746	0.1746
215.0	0.1744	0.1743	0.1743
216.0	0.1740	0.1739	0.1739
217.0	0.1736	0.1736	0.1736
218.0	0.1733	0.1732	0.1732
219.0	0.1728	0.1727	0.1727
220.0	0.1724	0.1723	0.1723
221.0	0.1719	0.1718	0.1718
222.0	0.1715	0.1714	0.1714
223.0	0.1710	0.1709	0.1709
224.0	0.1705	0.1704	0.1704
225.0	0.1699	0.1698	0.1698
226.0	0.1694	0.1693	0.1693
227.0	0.1688	0.1687	0.1687
228.0	0.1682	0.1681	0.1681
229.0	0.1676	0.1675	0.1675
230.0	0.1670	0.1669	0.1669
231.0	0.1663	0.1662	0.1662
232.0	0.1657	0.1656	0.1656
233.0	0.1650	0.1649	0.1649
234.0	0.1643	0.1642	0.1642
235.0	0.1636	0.1635	0.1635
236.0	0.1628	0.1627	0.1627
237.0	0.1621	0.1620	0.1620
238.0	0.1613	0.1612	0.1612
239.0	0.1605	0.1604	0.1604
240.0	0.1597	0.1596	0.1596
241.0	0.1589	0.1588	0.1588
242.0	0.1581	0.1580	0.1580
243.0	0.1573	0.1572	0.1572

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
244.0	0.1564	0.1563	0.1563
245.0	0.1555	0.1554	0.1554
246.0	0.1546	0.1545	0.1545
247.0	0.1537	0.1537	0.1537
248.0	0.1528	0.1527	0.1527
249.0	0.1519	0.1518	0.1518
250.0	0.1510	0.1509	0.1509
251.0	0.1500	0.1499	0.1499
252.0	0.1491	0.1490	0.1490
253.0	0.1481	0.1480	0.1480
254.0	0.1471	0.1470	0.1470
255.0	0.1461	0.1460	0.1460
256.0	0.1451	0.1450	0.1450
257.0	0.1441	0.1440	0.1440
258.0	0.1430	0.1430	0.1430
259.0	0.1420	0.1419	0.1419
260.0	0.1410	0.1409	0.1409
261.0	0.1399	0.1398	0.1398
262.0	0.1388	0.1387	0.1387
263.0	0.1378	0.1377	0.1377
264.0	0.1367	0.1366	0.1366
265.0	0.1356	0.1355	0.1355
266.0	0.1345	0.1344	0.1344
267.0	0.1334	0.1333	0.1333
268.0	0.1323	0.1322	0.1322
269.0	0.1311	0.1311	0.1311
270.0	0.1300	0.1299	0.1299
271.0	0.1289	0.1288	0.1288
272.0	0.1277	0.1277	0.1277
273.0	0.1266	0.1265	0.1265
274.0	0.1254	0.1254	0.1254
275.0	0.1243	0.1242	0.1242
276.0	0.1231	0.1231	0.1231
277.0	0.1220	0.1219	0.1219
278.0	0.1208	0.1208	0.1208
279.0	0.1196	0.1196	0.1196
280.0	0.1185	0.1184	0.1184
281.0	0.1173	0.1173	0.1173
282.0	0.1161	0.1161	0.1161
283.0	0.1149	0.1149	0.1149

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
284.0	0.1138	0.1137	0.1137
285.0	0.1126	0.1125	0.1125
286.0	0.1114	0.1114	0.1114
287.0	0.1102	0.1102	0.1102
288.0	0.1090	0.1090	0.1090
289.0	0.1079	0.1078	0.1078
290.0	0.1067	0.1066	0.1066
291.0	0.1055	0.1055	0.1055
292.0	0.1043	0.1043	0.1043
293.0	0.1031	0.1031	0.1031
294.0	0.1019	0.1019	0.1019
295.0	0.1008	0.1007	0.1007
296.0	0.0996	0.0996	0.0996
297.0	0.0984	0.0984	0.0984
298.0	0.0972	0.0972	0.0972
299.0	0.0961	0.0960	0.0960
300.0	0.0949	0.0949	0.0949
301.0	0.0937	0.0937	0.0937
302.0	0.0926	0.0926	0.0926
303.0	0.0914	0.0914	0.0914
304.0	0.0903	0.0902	0.0902
305.0	0.0891	0.0891	0.0891
306.0	0.0880	0.0879	0.0879
307.0	0.0868	0.0868	0.0868
308.0	0.0857	0.0857	0.0857
309.0	0.0845	0.0845	0.0845
310.0	0.0834	0.0834	0.0834
311.0	0.0823	0.0823	0.0823
312.0	0.0812	0.0812	0.0812
313.0	0.0801	0.0801	0.0801
314.0	0.0790	0.0790	0.0790
315.0	0.0779	0.0779	0.0779
316.0	0.0768	0.0768	0.0768
317.0	0.0757	0.0757	0.0757
318.0	0.0746	0.0746	0.0746
319.0	0.0735	0.0735	0.0735
320.0	0.0725	0.0725	0.0725
321.0	0.0714	0.0714	0.0714
322.0	0.0703	0.0704	0.0704
323.0	0.0693	0.0693	0.0693

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
324.0	0.0683	0.0683	0.0683
325.0	0.0672	0.0672	0.0672
326.0	0.0662	0.0662	0.0662
327.0	0.0652	0.0652	0.0652
328.0	0.0642	0.0642	0.0642
329.0	0.0632	0.0632	0.0632
330.0	0.0622	0.0622	0.0622
331.0	0.0612	0.0612	0.0612
332.0	0.0602	0.0603	0.0603
333.0	0.0593	0.0593	0.0593
334.0	0.0583	0.0583	0.0583
335.0	0.0574	0.0574	0.0574
336.0	0.0564	0.0565	0.0565
337.0	0.0555	0.0555	0.0555
338.0	0.0546	0.0546	0.0546
339.0	0.0537	0.0537	0.0537
340.0	0.0527	0.0528	0.0528
341.0	0.0519	0.0519	0.0519
342.0	0.0510	0.0510	0.0510
343.0	0.0501	0.0501	0.0501
344.0	0.0492	0.0493	0.0493
345.0	0.0484	0.0484	0.0484
346.0	0.0475	0.0476	0.0476
347.0	0.0467	0.0467	0.0467
348.0	0.0458	0.0459	0.0459
349.0	0.0450	0.0451	0.0451
350.0	0.0442	0.0443	0.0443
351.0	0.0434	0.0435	0.0435
352.0	0.0426	0.0427	0.0427
353.0	0.0418	0.0419	0.0419
354.0	0.0411	0.0411	0.0411
355.0	0.0403	0.0404	0.0404
356.0	0.0396	0.0396	0.0396
357.0	0.0388	0.0389	0.0389
358.0	0.0381	0.0381	0.0381
359.0	0.0373	0.0374	0.0374
360.0	0.0366	0.0367	0.0367
361.0	0.0359	0.0360	0.0360
362.0	0.0352	0.0353	0.0353
363.0	0.0345	0.0346	0.0346

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
364.0	0.0339	0.0339	0.0339
365.0	0.0332	0.0333	0.0333
366.0	0.0325	0.0326	0.0326
367.0	0.0319	0.0319	0.0319
368.0	0.0312	0.0313	0.0313
369.0	0.0306	0.0307	0.0307
370.0	0.0300	0.0301	0.0301
371.0	0.0294	0.0294	0.0294
372.0	0.0288	0.0288	0.0288
373.0	0.0282	0.0282	0.0282
374.0	0.0276	0.0277	0.0277
375.0	0.0270	0.0271	0.0271
376.0	0.0265	0.0265	0.0265
377.0	0.0259	0.0260	0.0260
378.0	0.0253	0.0254	0.0254
379.0	0.0248	0.0249	0.0249
380.0	0.0243	0.0243	0.0243
381.0	0.0238	0.0238	0.0238
382.0	0.0232	0.0233	0.0233
383.0	0.0227	0.0228	0.0228
384.0	0.0222	0.0223	0.0223
385.0	0.0217	0.0218	0.0218
386.0	0.0213	0.0213	0.0213
387.0	0.0208	0.0208	0.0208
388.0	0.0203	0.0204	0.0204
389.0	0.0199	0.0199	0.0199
390.0	0.0194	0.0195	0.0195
391.0	0.0190	0.0190	0.0190
392.0	0.0185	0.0186	0.0186
393.0	0.0181	0.0182	0.0182
394.0	0.0177	0.0178	0.0178
395.0	0.0173	0.0173	0.0173
396.0	0.0169	0.0169	0.0169
397.0	0.0165	0.0166	0.0166
398.0	0.0161	0.0162	0.0162
399.0	0.0157	0.0158	0.0158
400.0	0.0154	0.0154	0.0154

Table B.6.13: Output for Problem 6.1.2-L03

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0148	0.0148
5.0	0.0168	0.0168	0.0168
10.0	0.0190	0.0189	0.0189
15.0	0.0213	0.0213	0.0213
20.0	0.0239	0.0239	0.0239
25.0	0.0267	0.0267	0.0267
30.0	0.0298	0.0297	0.0297
35.0	0.0330	0.0330	0.0330
40.0	0.0365	0.0365	0.0365
45.0	0.0403	0.0403	0.0403
50.0	0.0443	0.0443	0.0443
55.0	0.0486	0.0486	0.0486
60.0	0.0531	0.0531	0.0531
65.0	0.0578	0.0579	0.0579
70.0	0.0628	0.0629	0.0629
75.0	0.0680	0.0681	0.0681
80.0	0.0733	0.0734	0.0734
85.0	0.0789	0.0790	0.0790
90.0	0.0845	0.0847	0.0847
95.0	0.0904	0.0906	0.0906
100.0	0.0963	0.0965	0.0965
105.0	0.1022	0.1025	0.1025
110.0	0.1083	0.1085	0.1085
115.0	0.1143	0.1145	0.1145
120.0	0.1202	0.1205	0.1205
125.0	0.1261	0.1263	0.1263
130.0	0.1318	0.1321	0.1321
135.0	0.1374	0.1377	0.1377
140.0	0.1427	0.1430	0.1430
145.0	0.1478	0.1481	0.1481
150.0	0.1527	0.1529	0.1529
155.0	0.1571	0.1574	0.1574
160.0	0.1612	0.1615	0.1615
165.0	0.1649	0.1651	0.1651
170.0	0.1682	0.1683	0.1683
175.0	0.1710	0.1711	0.1711
180.0	0.1732	0.1734	0.1734

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x	$A(x)$	P_{v1}	P_{v2}
185.0	0.1750	0.1751	0.1751
190.0	0.1763	0.1763	0.1763
195.0	0.1770	0.1770	0.1770
200.0	0.1771	0.1771	0.1771
205.0	0.1768	0.1767	0.1767
210.0	0.1758	0.1757	0.1757
215.0	0.1744	0.1742	0.1742
220.0	0.1724	0.1722	0.1722
225.0	0.1699	0.1697	0.1697
230.0	0.1670	0.1667	0.1667
235.0	0.1636	0.1633	0.1633
240.0	0.1597	0.1595	0.1595
245.0	0.1555	0.1552	0.1552
250.0	0.1510	0.1506	0.1506
255.0	0.1461	0.1458	0.1458
260.0	0.1410	0.1406	0.1406
265.0	0.1356	0.1352	0.1352
270.0	0.1300	0.1297	0.1297
275.0	0.1243	0.1240	0.1240
280.0	0.1185	0.1182	0.1182
285.0	0.1126	0.1123	0.1123
290.0	0.1067	0.1064	0.1064
295.0	0.1008	0.1005	0.1005
300.0	0.0949	0.0946	0.0946
305.0	0.0891	0.0889	0.0889
310.0	0.0834	0.0832	0.0832
315.0	0.0779	0.0777	0.0777
320.0	0.0725	0.0723	0.0723
325.0	0.0672	0.0671	0.0671
330.0	0.0622	0.0621	0.0621
335.0	0.0574	0.0573	0.0573
340.0	0.0527	0.0527	0.0527
345.0	0.0484	0.0483	0.0483
350.0	0.0442	0.0442	0.0442
355.0	0.0403	0.0403	0.0403
360.0	0.0366	0.0367	0.0367
365.0	0.0332	0.0333	0.0333
370.0	0.0300	0.0301	0.0301
375.0	0.0270	0.0271	0.0271
380.0	0.0243	0.0244	0.0244

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x	$A(x)$	P_{v1}	P_{v2}
385.0	0.0217	0.0218	0.0218
390.0	0.0194	0.0195	0.0195
395.0	0.0173	0.0174	0.0174
400.0	0.0154	0.0155	0.0155

Table B.6.14: Output for Problem 6.1.2-L04

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0146	0.0146
10.0	0.0190	0.0187	0.0187
20.0	0.0239	0.0236	0.0236
30.0	0.0298	0.0295	0.0295
40.0	0.0365	0.0364	0.0364
50.0	0.0443	0.0443	0.0443
60.0	0.0531	0.0532	0.0532
70.0	0.0628	0.0630	0.0630
80.0	0.0733	0.0737	0.0737
90.0	0.0845	0.0852	0.0852
100.0	0.0963	0.0970	0.0970
110.0	0.1083	0.1092	0.1092
120.0	0.1202	0.1213	0.1213
130.0	0.1318	0.1329	0.1329
140.0	0.1427	0.1439	0.1439
150.0	0.1527	0.1538	0.1538
160.0	0.1612	0.1622	0.1622
170.0	0.1682	0.1690	0.1690
180.0	0.1732	0.1739	0.1739
190.0	0.1763	0.1767	0.1767
200.0	0.1771	0.1773	0.1773
210.0	0.1758	0.1757	0.1757
220.0	0.1724	0.1720	0.1720
230.0	0.1670	0.1663	0.1663
240.0	0.1597	0.1589	0.1589
250.0	0.1510	0.1499	0.1499
260.0	0.1410	0.1398	0.1398
270.0	0.1300	0.1288	0.1288
280.0	0.1185	0.1173	0.1173
290.0	0.1067	0.1056	0.1056
300.0	0.0949	0.0939	0.0939

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x	$A(x)$	P_{v1}	P_{v2}
310.0	0.0834	0.0826	0.0826
320.0	0.0725	0.0718	0.0718
330.0	0.0622	0.0617	0.0617
340.0	0.0527	0.0525	0.0525
350.0	0.0442	0.0441	0.0441
360.0	0.0366	0.0366	0.0366
370.0	0.0300	0.0301	0.0301
380.0	0.0243	0.0245	0.0245
390.0	0.0194	0.0197	0.0197
400.0	0.0154	0.0157	0.0157

Table B.6.15: Output for Problem 6.1.2-L05

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0141	0.0141
15.0	0.0213	0.0206	0.0206
30.0	0.0298	0.0292	0.0292
45.0	0.0403	0.0401	0.0401
60.0	0.0531	0.0533	0.0533
75.0	0.0680	0.0687	0.0687
90.0	0.0845	0.0859	0.0859
105.0	0.1022	0.1042	0.1042
120.0	0.1202	0.1226	0.1226
135.0	0.1374	0.1400	0.1400
150.0	0.1527	0.1552	0.1552
165.0	0.1649	0.1671	0.1671
180.0	0.1732	0.1747	0.1747
195.0	0.1770	0.1776	0.1776
210.0	0.1758	0.1755	0.1755
225.0	0.1699	0.1687	0.1687
240.0	0.1597	0.1578	0.1578
255.0	0.1461	0.1437	0.1437
270.0	0.1300	0.1275	0.1275
285.0	0.1126	0.1102	0.1102
300.0	0.0949	0.0928	0.0928
315.0	0.0779	0.0763	0.0763
330.0	0.0622	0.0611	0.0611
345.0	0.0484	0.0479	0.0479
360.0	0.0366	0.0366	0.0366

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x	$A(x)$	P_{v1}	P_{v2}
375.0	0.0270	0.0273	0.0273
390.0	0.0194	0.0199	0.0199
405.0	0.0136	0.0142	0.0142

Table B.6.16: Output for Problem 6.1.2-L06

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0135	0.0135
20.0	0.0239	0.0227	0.0227
40.0	0.0365	0.0359	0.0359
60.0	0.0531	0.0535	0.0535
80.0	0.0733	0.0751	0.0751
100.0	0.0963	0.0996	0.0996
120.0	0.1202	0.1246	0.1246
140.0	0.1427	0.1475	0.1475
160.0	0.1612	0.1654	0.1654
180.0	0.1732	0.1758	0.1758
200.0	0.1771	0.1776	0.1776
220.0	0.1724	0.1706	0.1706
240.0	0.1597	0.1563	0.1563
260.0	0.1410	0.1366	0.1366
280.0	0.1185	0.1141	0.1141
300.0	0.0949	0.0913	0.0913
320.0	0.0725	0.0701	0.0701
340.0	0.0527	0.0516	0.0516
360.0	0.0366	0.0366	0.0366
380.0	0.0243	0.0249	0.0249
400.0	0.0154	0.0164	0.0164

Table B.6.17: Output for Problem 6.1.2-L07

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0113	0.0113
30.0	0.0298	0.0272	0.0272
60.0	0.0531	0.0544	0.0544
90.0	0.0845	0.0914	0.0914
120.0	0.1202	0.1310	0.1310

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x	$A(x)$	P_{v1}	P_{v2}
150.0	0.1527	0.1628	0.1628
180.0	0.1732	0.1780	0.1780
210.0	0.1758	0.1731	0.1731
240.0	0.1597	0.1515	0.1515
270.0	0.1300	0.1205	0.1205
300.0	0.0949	0.0877	0.0877
330.0	0.0622	0.0588	0.0588
360.0	0.0366	0.0366	0.0366
390.0	0.0194	0.0212	0.0212

Table B.6.18: Output for Problem 6.1.2-L08

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0070	0.0070
40.0	0.0365	0.0346	0.0346
80.0	0.0733	0.0852	0.0852
120.0	0.1202	0.1406	0.1406
160.0	0.1612	0.1745	0.1745
200.0	0.1771	0.1739	0.1739
240.0	0.1597	0.1450	0.1450
280.0	0.1185	0.1039	0.1039
320.0	0.0725	0.0654	0.0654
360.0	0.0366	0.0367	0.0367
400.0	0.0154	0.0186	0.0186

Table B.6.19: Output for Problem 6.1.2-L09

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0151	0.0151
50.0	0.0443	0.0594	0.0594
100.0	0.0963	0.1176	0.1176
150.0	0.1527	0.1557	0.1557
200.0	0.1771	0.1552	0.1552
250.0	0.1510	0.1242	0.1242
300.0	0.0949	0.0831	0.0831
350.0	0.0442	0.0478	0.0478
400.0	0.0154	0.0242	0.0242

Table B.6.20: Output for Problem 6.1.2-L10

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.0149	0.0242	0.0242
60.0	0.0531	0.0799	0.0799
120.0	0.1202	0.1321	0.1321
180.0	0.1732	0.1461	0.1461
240.0	0.1597	0.1216	0.1216
300.0	0.0949	0.0813	0.0813
360.0	0.0366	0.0454	0.0454
420.0	0.0093	0.0218	0.0218

B.7 Keyword Commands

Table B.7.1: Output for Problem 7.1-Bi210

x	$A(x)$	P_{v1}	P_{v2}
0.0	-7.42061e-20	0.00000e+00	0.00000e+00
0.1	3.76937e-04	3.61301e-04	3.61301e-04
0.2	5.43861e-04	5.32892e-04	5.32892e-04
0.3	5.92297e-04	5.32892e-04	5.32892e-04
0.4	6.05297e-04	6.03077e-04	6.03077e-04
0.5	6.07807e-04	6.06854e-04	6.06854e-04
0.6	6.07216e-04	6.06854e-04	6.06854e-04
0.7	6.05711e-04	6.06854e-04	6.06854e-04
0.8	6.03939e-04	6.03737e-04	6.03737e-04
0.9	6.02093e-04	6.01913e-04	6.01913e-04
1.0	6.00228e-04	6.00055e-04	6.00055e-04
1.1	5.98363e-04	5.98191e-04	5.98191e-04
1.2	5.96501e-04	5.98191e-04	5.98191e-04
1.3	5.94644e-04	5.94470e-04	5.94470e-04
1.4	5.92793e-04	5.94470e-04	5.94470e-04
1.5	5.90947e-04	5.90770e-04	5.90770e-04
1.6	5.89108e-04	5.88929e-04	5.88929e-04
1.7	5.87274e-04	5.88929e-04	5.88929e-04
1.8	5.85445e-04	5.85263e-04	5.85263e-04
1.9	5.83623e-04	5.85263e-04	5.85263e-04
2.0	5.81806e-04	5.81621e-04	5.81621e-04
2.1	5.79994e-04	5.79808e-04	5.79808e-04

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x	$A(x)$	P_{v1}	P_{v2}
2.2	5.78189e-04	5.78000e-04	5.78000e-04
2.3	5.76389e-04	5.78000e-04	5.78000e-04
2.4	5.74594e-04	5.78000e-04	5.78000e-04
2.5	5.72806e-04	5.72613e-04	5.72613e-04
2.6	5.71022e-04	5.70828e-04	5.70828e-04
2.7	5.69245e-04	5.69048e-04	5.69048e-04
2.8	5.67472e-04	5.69048e-04	5.69048e-04
2.9	5.65706e-04	5.69048e-04	5.69048e-04
3.0	5.63945e-04	5.63744e-04	5.63744e-04
3.1	5.62189e-04	5.61987e-04	5.61987e-04
3.2	5.60439e-04	5.60235e-04	5.60235e-04
3.3	5.58694e-04	5.60235e-04	5.60235e-04
3.4	5.56955e-04	5.60235e-04	5.60235e-04
3.5	5.55221e-04	5.55013e-04	5.55013e-04
3.6	5.53492e-04	5.53283e-04	5.53283e-04
3.7	5.51769e-04	5.51558e-04	5.51558e-04
3.8	5.50051e-04	5.51558e-04	5.51558e-04
3.9	5.48339e-04	5.51558e-04	5.51558e-04
4.0	5.46632e-04	5.46417e-04	5.46417e-04
4.1	5.44930e-04	5.46417e-04	5.46417e-04
4.2	5.43233e-04	5.43016e-04	5.43016e-04
4.3	5.41542e-04	5.41323e-04	5.41323e-04
4.4	5.39856e-04	5.39636e-04	5.39636e-04
4.5	5.38176e-04	5.37954e-04	5.37954e-04
4.6	5.36500e-04	5.37954e-04	5.37954e-04
4.7	5.34830e-04	5.34606e-04	5.34606e-04
4.8	5.33165e-04	5.34606e-04	5.34606e-04
4.9	5.31505e-04	5.31278e-04	5.31278e-04
5.0	5.29850e-04	5.29622e-04	5.29622e-04
5.1	5.28201e-04	5.29622e-04	5.29622e-04
5.2	5.26556e-04	5.26326e-04	5.26326e-04
5.3	5.24917e-04	5.26326e-04	5.26326e-04
5.4	5.23283e-04	5.23050e-04	5.23050e-04
5.5	5.21654e-04	5.21420e-04	5.21420e-04
5.6	5.20030e-04	5.21420e-04	5.21420e-04
5.7	5.18411e-04	5.18174e-04	5.18174e-04
5.8	5.16797e-04	5.18174e-04	5.18174e-04
5.9	5.15188e-04	5.14949e-04	5.14949e-04
6.0	5.13584e-04	5.13344e-04	5.13344e-04
6.1	5.11985e-04	5.13344e-04	5.13344e-04

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x	$A(x)$	P_{v1}	P_{v2}
6.2	5.10391e-04	5.10149e-04	5.10149e-04
6.3	5.08802e-04	5.10149e-04	5.10149e-04
6.4	5.07218e-04	5.06974e-04	5.06974e-04
6.5	5.05639e-04	5.05394e-04	5.05394e-04
6.6	5.04065e-04	5.05394e-04	5.05394e-04
6.7	5.02496e-04	5.02248e-04	5.02248e-04
6.8	5.00931e-04	5.02248e-04	5.02248e-04
6.9	4.99372e-04	4.99122e-04	4.99122e-04
7.0	4.97817e-04	4.97566e-04	4.97566e-04
7.1	4.96267e-04	4.97566e-04	4.97566e-04
7.2	4.94722e-04	4.94469e-04	4.94469e-04
7.3	4.93182e-04	4.94469e-04	4.94469e-04
7.4	4.91647e-04	4.91392e-04	4.91392e-04
7.5	4.90116e-04	4.89860e-04	4.89860e-04
7.6	4.88590e-04	4.89860e-04	4.89860e-04
7.7	4.87069e-04	4.86811e-04	4.86811e-04
7.8	4.85553e-04	4.86811e-04	4.86811e-04
7.9	4.84041e-04	4.83781e-04	4.83781e-04
8.0	4.82534e-04	4.82273e-04	4.82273e-04
8.1	4.81032e-04	4.80770e-04	4.80770e-04
8.2	4.79535e-04	4.80770e-04	4.80770e-04
8.3	4.78042e-04	4.77777e-04	4.77777e-04
8.4	4.76554e-04	4.76288e-04	4.76288e-04
8.5	4.75070e-04	4.74804e-04	4.74804e-04
8.6	4.73591e-04	4.73324e-04	4.73324e-04
8.7	4.72117e-04	4.73324e-04	4.73324e-04
8.8	4.70647e-04	4.70378e-04	4.70378e-04
8.9	4.69182e-04	4.68912e-04	4.68912e-04
9.0	4.67721e-04	4.67450e-04	4.67450e-04
9.1	4.66265e-04	4.65993e-04	4.65993e-04
9.2	4.64813e-04	4.65993e-04	4.65993e-04
9.3	4.63366e-04	4.63093e-04	4.63093e-04
9.4	4.61924e-04	4.61649e-04	4.61649e-04
9.5	4.60485e-04	4.60210e-04	4.60210e-04
9.6	4.59052e-04	4.60210e-04	4.60210e-04
9.7	4.57623e-04	4.60210e-04	4.60210e-04
9.8	4.56198e-04	4.55920e-04	4.55920e-04
9.9	4.54778e-04	4.54499e-04	4.54499e-04
10.0	4.53362e-04	4.53083e-04	4.53083e-04
10.1	4.51951e-04	4.53083e-04	4.53083e-04

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x	$A(x)$	P_{v1}	P_{v2}
10.2	4.50544e-04	4.53083e-04	4.53083e-04
10.3	4.49141e-04	4.48859e-04	4.48859e-04
10.4	4.47743e-04	4.47460e-04	4.47460e-04
10.5	4.46349e-04	4.46065e-04	4.46065e-04
10.6	4.44959e-04	4.46065e-04	4.46065e-04
10.7	4.43574e-04	4.46065e-04	4.46065e-04
10.8	4.42193e-04	4.41907e-04	4.41907e-04
10.9	4.40816e-04	4.40530e-04	4.40530e-04
11.0	4.39444e-04	4.39157e-04	4.39157e-04
11.1	4.38076e-04	4.39157e-04	4.39157e-04
11.2	4.36712e-04	4.39157e-04	4.39157e-04
11.3	4.35353e-04	4.35063e-04	4.35063e-04
11.4	4.33997e-04	4.33707e-04	4.33707e-04
11.5	4.32646e-04	4.32355e-04	4.32355e-04
11.6	4.31299e-04	4.32355e-04	4.32355e-04
11.7	4.29956e-04	4.32355e-04	4.32355e-04
11.8	4.28618e-04	4.28325e-04	4.28325e-04
11.9	4.27283e-04	4.26990e-04	4.26990e-04
12.0	4.25953e-04	4.25659e-04	4.25659e-04
12.1	4.24627e-04	4.25659e-04	4.25659e-04
12.2	4.23305e-04	4.25659e-04	4.25659e-04
12.3	4.21987e-04	4.21691e-04	4.21691e-04
12.4	4.20674e-04	4.20377e-04	4.20377e-04
12.5	4.19364e-04	4.19066e-04	4.19066e-04
12.6	4.18058e-04	4.19066e-04	4.19066e-04
12.7	4.16757e-04	4.19066e-04	4.19066e-04
12.8	4.15459e-04	4.15160e-04	4.15160e-04
12.9	4.14166e-04	4.13866e-04	4.13866e-04
13.0	4.12877e-04	4.12576e-04	4.12576e-04
13.1	4.11591e-04	4.12576e-04	4.12576e-04
13.2	4.10310e-04	4.12576e-04	4.12576e-04
13.3	4.09033e-04	4.08730e-04	4.08730e-04
13.4	4.07759e-04	4.07456e-04	4.07456e-04
13.5	4.06490e-04	4.06186e-04	4.06186e-04
13.6	4.05224e-04	4.06186e-04	4.06186e-04
13.7	4.03963e-04	4.06186e-04	4.06186e-04
13.8	4.02705e-04	4.02400e-04	4.02400e-04
13.9	4.01451e-04	4.01146e-04	4.01146e-04
14.0	4.00201e-04	3.99895e-04	3.99895e-04
14.1	3.98956e-04	3.99895e-04	3.99895e-04

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x	$A(x)$	P_{v1}	P_{v2}
14.2	3.97714e-04	3.99895e-04	3.99895e-04
14.3	3.96475e-04	3.96168e-04	3.96168e-04
14.4	3.95241e-04	3.94933e-04	3.94933e-04
14.5	3.94011e-04	3.93702e-04	3.93702e-04
14.6	3.92784e-04	3.93702e-04	3.93702e-04
14.7	3.91561e-04	3.93702e-04	3.93702e-04
14.8	3.90342e-04	3.90032e-04	3.90032e-04
14.9	3.89127e-04	3.88816e-04	3.88816e-04
15.0	3.87915e-04	3.87604e-04	3.87604e-04
15.1	3.86708e-04	3.87604e-04	3.87604e-04
15.2	3.85504e-04	3.87604e-04	3.87604e-04
15.3	3.84304e-04	3.83991e-04	3.83991e-04
15.4	3.83107e-04	3.82794e-04	3.82794e-04
15.5	3.81915e-04	3.81601e-04	3.81601e-04
15.6	3.80726e-04	3.81601e-04	3.81601e-04
15.7	3.79540e-04	3.81601e-04	3.81601e-04
15.8	3.78359e-04	3.78044e-04	3.78044e-04
15.9	3.77181e-04	3.76866e-04	3.76866e-04
16.0	3.76007e-04	3.75691e-04	3.75691e-04
16.1	3.74836e-04	3.74520e-04	3.74520e-04
16.2	3.73669e-04	3.73353e-04	3.73353e-04
16.3	3.72506e-04	3.72189e-04	3.72189e-04
16.4	3.71346e-04	3.72189e-04	3.72189e-04
16.5	3.70190e-04	3.69872e-04	3.69872e-04
16.6	3.69038e-04	3.68719e-04	3.68719e-04
16.7	3.67889e-04	3.67570e-04	3.67570e-04
16.8	3.66743e-04	3.66424e-04	3.66424e-04
16.9	3.65602e-04	3.66424e-04	3.66424e-04
17.0	3.64463e-04	3.64144e-04	3.64144e-04
17.1	3.63329e-04	3.63009e-04	3.63009e-04
17.2	3.62198e-04	3.61877e-04	3.61877e-04
17.3	3.61070e-04	3.60749e-04	3.60749e-04
17.4	3.59946e-04	3.60749e-04	3.60749e-04
17.5	3.58825e-04	3.58504e-04	3.58504e-04
17.6	3.57708e-04	3.57387e-04	3.57387e-04
17.7	3.56595e-04	3.56273e-04	3.56273e-04
17.8	3.55484e-04	3.55162e-04	3.55162e-04
17.9	3.54378e-04	3.55162e-04	3.55162e-04
18.0	3.53274e-04	3.52952e-04	3.52952e-04
18.1	3.52175e-04	3.51851e-04	3.51851e-04

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x	$A(x)$	P_{v1}	P_{v2}
18.2	3.51078e-04	3.50755e-04	3.50755e-04
18.3	3.49985e-04	3.49661e-04	3.49661e-04
18.4	3.48896e-04	3.49661e-04	3.49661e-04
18.5	3.47810e-04	3.47485e-04	3.47485e-04
18.6	3.46727e-04	3.46402e-04	3.46402e-04
18.7	3.45647e-04	3.45322e-04	3.45322e-04
18.8	3.44571e-04	3.44246e-04	3.44246e-04
18.9	3.43498e-04	3.44246e-04	3.44246e-04
19.0	3.42429e-04	3.42103e-04	3.42103e-04
19.1	3.41363e-04	3.41037e-04	3.41037e-04
19.2	3.40300e-04	3.41037e-04	3.41037e-04
19.3	3.39241e-04	3.38914e-04	3.38914e-04
19.4	3.38185e-04	3.38914e-04	3.38914e-04
19.5	3.37132e-04	3.36805e-04	3.36805e-04
19.6	3.36082e-04	3.35755e-04	3.35755e-04
19.7	3.35036e-04	3.35755e-04	3.35755e-04
19.8	3.33993e-04	3.33665e-04	3.33665e-04
19.9	3.32953e-04	3.33665e-04	3.33665e-04
20.0	3.31917e-04	3.31588e-04	3.31588e-04
20.1	3.30883e-04	3.30555e-04	3.30555e-04
20.2	3.29853e-04	3.30555e-04	3.30555e-04
20.3	3.28826e-04	3.28498e-04	3.28498e-04
20.4	3.27803e-04	3.28498e-04	3.28498e-04
20.5	3.26782e-04	3.26453e-04	3.26453e-04
20.6	3.25765e-04	3.25435e-04	3.25435e-04
20.7	3.24751e-04	3.25435e-04	3.25435e-04
20.8	3.23740e-04	3.23410e-04	3.23410e-04
20.9	3.22732e-04	3.23410e-04	3.23410e-04
21.0	3.21727e-04	3.21397e-04	3.21397e-04
21.1	3.20725e-04	3.20395e-04	3.20395e-04
21.2	3.19727e-04	3.20395e-04	3.20395e-04
21.3	3.18731e-04	3.18401e-04	3.18401e-04
21.4	3.17739e-04	3.18401e-04	3.18401e-04
21.5	3.16750e-04	3.16419e-04	3.16419e-04
21.6	3.15764e-04	3.15433e-04	3.15433e-04
21.7	3.14781e-04	3.15433e-04	3.15433e-04
21.8	3.13801e-04	3.13470e-04	3.13470e-04
21.9	3.12824e-04	3.13470e-04	3.13470e-04
22.0	3.11850e-04	3.11519e-04	3.11519e-04
22.1	3.10879e-04	3.10548e-04	3.10548e-04

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x	$A(x)$	P_{v1}	P_{v2}
22.2	3.09911e-04	3.10548e-04	3.10548e-04
22.3	3.08947e-04	3.08615e-04	3.08615e-04
22.4	3.07985e-04	3.08615e-04	3.08615e-04
22.5	3.07026e-04	3.06694e-04	3.06694e-04
22.6	3.06070e-04	3.05738e-04	3.05738e-04
22.7	3.05117e-04	3.05738e-04	3.05738e-04
22.8	3.04167e-04	3.03835e-04	3.03835e-04
22.9	3.03220e-04	3.03835e-04	3.03835e-04
23.0	3.02276e-04	3.01944e-04	3.01944e-04
23.1	3.01335e-04	3.01003e-04	3.01003e-04
23.2	3.00397e-04	3.01003e-04	3.01003e-04
23.3	2.99462e-04	2.99129e-04	2.99129e-04
23.4	2.98530e-04	2.99129e-04	2.99129e-04
23.5	2.97600e-04	2.97267e-04	2.97267e-04
23.6	2.96674e-04	2.96341e-04	2.96341e-04
23.7	2.95750e-04	2.96341e-04	2.96341e-04
23.8	2.94829e-04	2.94496e-04	2.94496e-04
23.9	2.93912e-04	2.94496e-04	2.94496e-04
24.0	2.92997e-04	2.92663e-04	2.92663e-04
24.1	2.92084e-04	2.91751e-04	2.91751e-04
24.2	2.91175e-04	2.91751e-04	2.91751e-04
24.3	2.90269e-04	2.89935e-04	2.89935e-04
24.4	2.89365e-04	2.89935e-04	2.89935e-04
24.5	2.88464e-04	2.88131e-04	2.88131e-04
24.6	2.87566e-04	2.87233e-04	2.87233e-04
24.7	2.86671e-04	2.87233e-04	2.87233e-04
24.8	2.85778e-04	2.85445e-04	2.85445e-04
24.9	2.84889e-04	2.85445e-04	2.85445e-04
25.0	2.84002e-04	2.83668e-04	2.83668e-04
25.1	2.83118e-04	2.82784e-04	2.82784e-04
25.2	2.82236e-04	2.82784e-04	2.82784e-04
25.3	2.81358e-04	2.81024e-04	2.81024e-04
25.4	2.80482e-04	2.81024e-04	2.81024e-04
25.5	2.79608e-04	2.79275e-04	2.79275e-04
25.6	2.78738e-04	2.78404e-04	2.78404e-04
25.7	2.77870e-04	2.78404e-04	2.78404e-04
25.8	2.77005e-04	2.76671e-04	2.76671e-04
25.9	2.76143e-04	2.76671e-04	2.76671e-04
26.0	2.75283e-04	2.74949e-04	2.74949e-04
26.1	2.74426e-04	2.74092e-04	2.74092e-04

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x	$A(x)$	P_{v1}	P_{v2}
26.2	2.73572e-04	2.74092e-04	2.74092e-04
26.3	2.72720e-04	2.72386e-04	2.72386e-04
26.4	2.71871e-04	2.72386e-04	2.72386e-04
26.5	2.71025e-04	2.70691e-04	2.70691e-04
26.6	2.70181e-04	2.69847e-04	2.69847e-04
26.7	2.69340e-04	2.69847e-04	2.69847e-04
26.8	2.68501e-04	2.68168e-04	2.68168e-04
26.9	2.67665e-04	2.68168e-04	2.68168e-04
27.0	2.66832e-04	2.66499e-04	2.66499e-04
27.1	2.66001e-04	2.65668e-04	2.65668e-04
27.2	2.65173e-04	2.65668e-04	2.65668e-04
27.3	2.64348e-04	2.64014e-04	2.64014e-04
27.4	2.63525e-04	2.64014e-04	2.64014e-04
27.5	2.62704e-04	2.62371e-04	2.62371e-04
27.6	2.61886e-04	2.61553e-04	2.61553e-04
27.7	2.61071e-04	2.61553e-04	2.61553e-04
27.8	2.60258e-04	2.59925e-04	2.59925e-04
27.9	2.59448e-04	2.59925e-04	2.59925e-04
28.0	2.58640e-04	2.58308e-04	2.58308e-04
28.1	2.57835e-04	2.57502e-04	2.57502e-04
28.2	2.57032e-04	2.57502e-04	2.57502e-04
28.3	2.56232e-04	2.55900e-04	2.55900e-04
28.4	2.55434e-04	2.55900e-04	2.55900e-04
28.5	2.54639e-04	2.54307e-04	2.54307e-04
28.6	2.53847e-04	2.53514e-04	2.53514e-04
28.7	2.53056e-04	2.53514e-04	2.53514e-04
28.8	2.52268e-04	2.51936e-04	2.51936e-04
28.9	2.51483e-04	2.51936e-04	2.51936e-04
29.0	2.50700e-04	2.50368e-04	2.50368e-04
29.1	2.49920e-04	2.49588e-04	2.49588e-04
29.2	2.49142e-04	2.49588e-04	2.49588e-04
29.3	2.48366e-04	2.48034e-04	2.48034e-04
29.4	2.47593e-04	2.48034e-04	2.48034e-04
29.5	2.46822e-04	2.46491e-04	2.46491e-04
29.6	2.46054e-04	2.45722e-04	2.45722e-04
29.7	2.45287e-04	2.45722e-04	2.45722e-04
29.8	2.44524e-04	2.44193e-04	2.44193e-04
29.9	2.43763e-04	2.44193e-04	2.44193e-04
30.0	2.43004e-04	2.42673e-04	2.42673e-04
30.1	2.42247e-04	2.41917e-04	2.41917e-04

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x	$A(x)$	P_{v1}	P_{v2}
30.2	2.41493e-04	2.41917e-04	2.41917e-04
30.3	2.40741e-04	2.40411e-04	2.40411e-04
30.4	2.39992e-04	2.40411e-04	2.40411e-04
30.5	2.39245e-04	2.38915e-04	2.38915e-04
30.6	2.38500e-04	2.38170e-04	2.38170e-04
30.7	2.37757e-04	2.38170e-04	2.38170e-04
30.8	2.37017e-04	2.36687e-04	2.36687e-04
30.9	2.36279e-04	2.36687e-04	2.36687e-04
31.0	2.35544e-04	2.35214e-04	2.35214e-04
31.1	2.34810e-04	2.34481e-04	2.34481e-04
31.2	2.34079e-04	2.34481e-04	2.34481e-04
31.3	2.33351e-04	2.33022e-04	2.33022e-04
31.4	2.32624e-04	2.33022e-04	2.33022e-04
31.5	2.31900e-04	2.31571e-04	2.31571e-04
31.6	2.31178e-04	2.30850e-04	2.30850e-04
31.7	2.30458e-04	2.30850e-04	2.30850e-04
31.8	2.29741e-04	2.29413e-04	2.29413e-04
31.9	2.29026e-04	2.29413e-04	2.29413e-04
32.0	2.28313e-04	2.27985e-04	2.27985e-04
32.1	2.27602e-04	2.27274e-04	2.27274e-04
32.2	2.26893e-04	2.26566e-04	2.26566e-04
32.3	2.26187e-04	2.26566e-04	2.26566e-04
32.4	2.25483e-04	2.25156e-04	2.25156e-04
32.5	2.24781e-04	2.24454e-04	2.24454e-04
32.6	2.24081e-04	2.23754e-04	2.23754e-04
32.7	2.23383e-04	2.23057e-04	2.23057e-04
32.8	2.22688e-04	2.23057e-04	2.23057e-04
32.9	2.21995e-04	2.21668e-04	2.21668e-04
33.0	2.21303e-04	2.20978e-04	2.20978e-04
33.1	2.20614e-04	2.20289e-04	2.20289e-04
33.2	2.19928e-04	2.19602e-04	2.19602e-04
33.3	2.19243e-04	2.19602e-04	2.19602e-04
33.4	2.18560e-04	2.18235e-04	2.18235e-04
33.5	2.17880e-04	2.17555e-04	2.17555e-04
33.6	2.17202e-04	2.16877e-04	2.16877e-04
33.7	2.16525e-04	2.16201e-04	2.16201e-04
33.8	2.15851e-04	2.16201e-04	2.16201e-04
33.9	2.15179e-04	2.14855e-04	2.14855e-04
34.0	2.14509e-04	2.14186e-04	2.14186e-04
34.1	2.13842e-04	2.13518e-04	2.13518e-04

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x	$A(x)$	P_{v1}	P_{v2}
34.2	2.13176e-04	2.12853e-04	2.12853e-04
34.3	2.12512e-04	2.12853e-04	2.12853e-04
34.4	2.11851e-04	2.11528e-04	2.11528e-04
34.5	2.11191e-04	2.10868e-04	2.10868e-04
34.6	2.10534e-04	2.10211e-04	2.10211e-04
34.7	2.09878e-04	2.09556e-04	2.09556e-04
34.8	2.09225e-04	2.09556e-04	2.09556e-04
34.9	2.08573e-04	2.08252e-04	2.08252e-04
35.0	2.07924e-04	2.07602e-04	2.07602e-04
35.1	2.07277e-04	2.06955e-04	2.06955e-04
35.2	2.06632e-04	2.06310e-04	2.06310e-04
35.3	2.05988e-04	2.06310e-04	2.06310e-04
35.4	2.05347e-04	2.05026e-04	2.05026e-04
35.5	2.04708e-04	2.04387e-04	2.04387e-04
35.6	2.04070e-04	2.03750e-04	2.03750e-04
35.7	2.03435e-04	2.03115e-04	2.03115e-04
35.8	2.02802e-04	2.03115e-04	2.03115e-04
35.9	2.02170e-04	2.01851e-04	2.01851e-04
36.0	2.01541e-04	2.01222e-04	2.01222e-04
36.1	2.00913e-04	2.00594e-04	2.00594e-04
36.2	2.00288e-04	1.99969e-04	1.99969e-04
36.3	1.99664e-04	1.99969e-04	1.99969e-04
36.4	1.99043e-04	1.98725e-04	1.98725e-04
36.5	1.98423e-04	1.98105e-04	1.98105e-04
36.6	1.97805e-04	1.97488e-04	1.97488e-04
36.7	1.97190e-04	1.96872e-04	1.96872e-04
36.8	1.96576e-04	1.96872e-04	1.96872e-04
36.9	1.95964e-04	1.95647e-04	1.95647e-04
37.0	1.95354e-04	1.95037e-04	1.95037e-04
37.1	1.94746e-04	1.94429e-04	1.94429e-04
37.2	1.94139e-04	1.93823e-04	1.93823e-04
37.3	1.93535e-04	1.93823e-04	1.93823e-04
37.4	1.92932e-04	1.92617e-04	1.92617e-04
37.5	1.92332e-04	1.92016e-04	1.92016e-04
37.6	1.91733e-04	1.91418e-04	1.91418e-04
37.7	1.91136e-04	1.90821e-04	1.90821e-04
37.8	1.90541e-04	1.90821e-04	1.90821e-04
37.9	1.89948e-04	1.89633e-04	1.89633e-04
38.0	1.89356e-04	1.89042e-04	1.89042e-04
38.1	1.88767e-04	1.88453e-04	1.88453e-04

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x	$A(x)$	P_{v1}	P_{v2}
38.2	1.88179e-04	1.87866e-04	1.87866e-04
38.3	1.87593e-04	1.87866e-04	1.87866e-04
38.4	1.87009e-04	1.87866e-04	1.87866e-04
38.5	1.86427e-04	1.86115e-04	1.86115e-04
38.6	1.85847e-04	1.85534e-04	1.85534e-04
38.7	1.85268e-04	1.84956e-04	1.84956e-04
38.8	1.84691e-04	1.84956e-04	1.84956e-04
38.9	1.84116e-04	1.84956e-04	1.84956e-04
39.0	1.83543e-04	1.83232e-04	1.83232e-04
39.1	1.82972e-04	1.82661e-04	1.82661e-04
39.2	1.82402e-04	1.82092e-04	1.82092e-04
39.3	1.81834e-04	1.82092e-04	1.82092e-04
39.4	1.81268e-04	1.82092e-04	1.82092e-04
39.5	1.80704e-04	1.80394e-04	1.80394e-04
39.6	1.80141e-04	1.79832e-04	1.79832e-04
39.7	1.79581e-04	1.79271e-04	1.79271e-04
39.8	1.79021e-04	1.79271e-04	1.79271e-04
39.9	1.78464e-04	1.79271e-04	1.79271e-04
40.0	1.77909e-04	1.77600e-04	1.77600e-04
40.1	1.77355e-04	1.77047e-04	1.77047e-04
40.2	1.76803e-04	1.76495e-04	1.76495e-04
40.3	1.76252e-04	1.76495e-04	1.76495e-04
40.4	1.75703e-04	1.76495e-04	1.76495e-04
40.5	1.75156e-04	1.74850e-04	1.74850e-04
40.6	1.74611e-04	1.74305e-04	1.74305e-04
40.7	1.74068e-04	1.73761e-04	1.73761e-04
40.8	1.73526e-04	1.73761e-04	1.73761e-04
40.9	1.72985e-04	1.73761e-04	1.73761e-04
41.0	1.72447e-04	1.72142e-04	1.72142e-04
41.1	1.71910e-04	1.71605e-04	1.71605e-04
41.2	1.71375e-04	1.71070e-04	1.71070e-04
41.3	1.70841e-04	1.71070e-04	1.71070e-04
41.4	1.70309e-04	1.71070e-04	1.71070e-04
41.5	1.69779e-04	1.69475e-04	1.69475e-04
41.6	1.69251e-04	1.68947e-04	1.68947e-04
41.7	1.68724e-04	1.68421e-04	1.68421e-04
41.8	1.68198e-04	1.68421e-04	1.68421e-04
41.9	1.67675e-04	1.68421e-04	1.68421e-04
42.0	1.67153e-04	1.66851e-04	1.66851e-04
42.1	1.66632e-04	1.66331e-04	1.66331e-04

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x	$A(x)$	P_{v1}	P_{v2}
42.2	1.66114e-04	1.65812e-04	1.65812e-04
42.3	1.65596e-04	1.65812e-04	1.65812e-04
42.4	1.65081e-04	1.65812e-04	1.65812e-04
42.5	1.64567e-04	1.64267e-04	1.64267e-04
42.6	1.64055e-04	1.63755e-04	1.63755e-04
42.7	1.63544e-04	1.63244e-04	1.63244e-04
42.8	1.63035e-04	1.63244e-04	1.63244e-04
42.9	1.62527e-04	1.63244e-04	1.63244e-04
43.0	1.62021e-04	1.61722e-04	1.61722e-04
43.1	1.61517e-04	1.61218e-04	1.61218e-04
43.2	1.61014e-04	1.60716e-04	1.60716e-04
43.3	1.60513e-04	1.60716e-04	1.60716e-04
43.4	1.60013e-04	1.60716e-04	1.60716e-04
43.5	1.59515e-04	1.59218e-04	1.59218e-04
43.6	1.59018e-04	1.58721e-04	1.58721e-04
43.7	1.58523e-04	1.58227e-04	1.58227e-04
43.8	1.58030e-04	1.58227e-04	1.58227e-04
43.9	1.57538e-04	1.58227e-04	1.58227e-04
44.0	1.57047e-04	1.56752e-04	1.56752e-04
44.1	1.56558e-04	1.56263e-04	1.56263e-04
44.2	1.56071e-04	1.55776e-04	1.55776e-04
44.3	1.55585e-04	1.55776e-04	1.55776e-04
44.4	1.55101e-04	1.55776e-04	1.55776e-04
44.5	1.54618e-04	1.54324e-04	1.54324e-04
44.6	1.54136e-04	1.53843e-04	1.53843e-04
44.7	1.53657e-04	1.53363e-04	1.53363e-04
44.8	1.53178e-04	1.53363e-04	1.53363e-04
44.9	1.52701e-04	1.53363e-04	1.53363e-04
45.0	1.52226e-04	1.51934e-04	1.51934e-04
45.1	1.51752e-04	1.51460e-04	1.51460e-04
45.2	1.51280e-04	1.50988e-04	1.50988e-04
45.3	1.50809e-04	1.50988e-04	1.50988e-04
45.4	1.50339e-04	1.50988e-04	1.50988e-04
45.5	1.49871e-04	1.49581e-04	1.49581e-04
45.6	1.49405e-04	1.49115e-04	1.49115e-04
45.7	1.48939e-04	1.48650e-04	1.48650e-04
45.8	1.48476e-04	1.48650e-04	1.48650e-04
45.9	1.48014e-04	1.48650e-04	1.48650e-04
46.0	1.47553e-04	1.47264e-04	1.47264e-04
46.1	1.47093e-04	1.46805e-04	1.46805e-04

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x	$A(x)$	P_{v1}	P_{v2}
46.2	1.46635e-04	1.46347e-04	1.46347e-04
46.3	1.46179e-04	1.46347e-04	1.46347e-04
46.4	1.45724e-04	1.46347e-04	1.46347e-04
46.5	1.45270e-04	1.44983e-04	1.44983e-04
46.6	1.44818e-04	1.44531e-04	1.44531e-04
46.7	1.44367e-04	1.44081e-04	1.44081e-04
46.8	1.43918e-04	1.44081e-04	1.44081e-04
46.9	1.43470e-04	1.44081e-04	1.44081e-04
47.0	1.43023e-04	1.42738e-04	1.42738e-04
47.1	1.42578e-04	1.42293e-04	1.42293e-04
47.2	1.42134e-04	1.41849e-04	1.41849e-04
47.3	1.41691e-04	1.41849e-04	1.41849e-04
47.4	1.41250e-04	1.41849e-04	1.41849e-04
47.5	1.40810e-04	1.40527e-04	1.40527e-04
47.6	1.40372e-04	1.40089e-04	1.40089e-04
47.7	1.39935e-04	1.39652e-04	1.39652e-04
47.8	1.39499e-04	1.39652e-04	1.39652e-04
47.9	1.39065e-04	1.39652e-04	1.39652e-04
48.0	1.38632e-04	1.38351e-04	1.38351e-04
48.1	1.38201e-04	1.37919e-04	1.37919e-04
48.2	1.37770e-04	1.37490e-04	1.37490e-04
48.3	1.37341e-04	1.37490e-04	1.37490e-04
48.4	1.36914e-04	1.37490e-04	1.37490e-04
48.5	1.36488e-04	1.36208e-04	1.36208e-04
48.6	1.36063e-04	1.35783e-04	1.35783e-04
48.7	1.35639e-04	1.35360e-04	1.35360e-04
48.8	1.35217e-04	1.35360e-04	1.35360e-04
48.9	1.34796e-04	1.35360e-04	1.35360e-04
49.0	1.34376e-04	1.34098e-04	1.34098e-04
49.1	1.33958e-04	1.33680e-04	1.33680e-04
49.2	1.33541e-04	1.33264e-04	1.33264e-04
49.3	1.33125e-04	1.33264e-04	1.33264e-04
49.4	1.32711e-04	1.33264e-04	1.33264e-04
49.5	1.32297e-04	1.32021e-04	1.32021e-04
49.6	1.31886e-04	1.31610e-04	1.31610e-04
49.7	1.31475e-04	1.31200e-04	1.31200e-04
49.8	1.31066e-04	1.31200e-04	1.31200e-04
49.9	1.30658e-04	1.31200e-04	1.31200e-04
50.0	1.30251e-04	1.29977e-04	1.29977e-04
50.1	1.29845e-04	1.29572e-04	1.29572e-04

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x	$A(x)$	P_{v1}	P_{v2}
50.2	1.29441e-04	1.29168e-04	1.29168e-04
50.3	1.29038e-04	1.29168e-04	1.29168e-04
50.4	1.28636e-04	1.29168e-04	1.29168e-04
50.5	1.28236e-04	1.27964e-04	1.27964e-04
50.6	1.27837e-04	1.27565e-04	1.27565e-04
50.7	1.27439e-04	1.27167e-04	1.27167e-04
50.8	1.27042e-04	1.27167e-04	1.27167e-04
50.9	1.26647e-04	1.27167e-04	1.27167e-04
51.0	1.26252e-04	1.25982e-04	1.25982e-04
51.1	1.25859e-04	1.25589e-04	1.25589e-04
51.2	1.25467e-04	1.25198e-04	1.25198e-04
51.3	1.25077e-04	1.25198e-04	1.25198e-04
51.4	1.24687e-04	1.25198e-04	1.25198e-04
51.5	1.24299e-04	1.24031e-04	1.24031e-04
51.6	1.23912e-04	1.23644e-04	1.23644e-04
51.7	1.23526e-04	1.23259e-04	1.23259e-04
51.8	1.23142e-04	1.23259e-04	1.23259e-04
51.9	1.22759e-04	1.23259e-04	1.23259e-04
52.0	1.22376e-04	1.22110e-04	1.22110e-04
52.1	1.21995e-04	1.21729e-04	1.21729e-04
52.2	1.21616e-04	1.21350e-04	1.21350e-04
52.3	1.21237e-04	1.21350e-04	1.21350e-04
52.4	1.20860e-04	1.21350e-04	1.21350e-04
52.5	1.20483e-04	1.20218e-04	1.20218e-04
52.6	1.20108e-04	1.19844e-04	1.19844e-04
52.7	1.19734e-04	1.19470e-04	1.19470e-04
52.8	1.19361e-04	1.19470e-04	1.19470e-04
52.9	1.18990e-04	1.19470e-04	1.19470e-04
53.0	1.18619e-04	1.18357e-04	1.18357e-04
53.1	1.18250e-04	1.17988e-04	1.17988e-04
53.2	1.17882e-04	1.17620e-04	1.17620e-04
53.3	1.17515e-04	1.17620e-04	1.17620e-04
53.4	1.17149e-04	1.17620e-04	1.17620e-04
53.5	1.16784e-04	1.16523e-04	1.16523e-04
53.6	1.16421e-04	1.16160e-04	1.16160e-04
53.7	1.16058e-04	1.15798e-04	1.15798e-04
53.8	1.15697e-04	1.15798e-04	1.15798e-04
53.9	1.15337e-04	1.15798e-04	1.15798e-04
54.0	1.14978e-04	1.14719e-04	1.14719e-04
54.1	1.14620e-04	1.14361e-04	1.14361e-04

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x	$A(x)$	P_{v1}	P_{v2}
54.2	1.14263e-04	1.14005e-04	1.14005e-04
54.3	1.13907e-04	1.14005e-04	1.14005e-04
54.4	1.13553e-04	1.14005e-04	1.14005e-04
54.5	1.13199e-04	1.12942e-04	1.12942e-04
54.6	1.12847e-04	1.12590e-04	1.12590e-04
54.7	1.12496e-04	1.12239e-04	1.12239e-04
54.8	1.12145e-04	1.12239e-04	1.12239e-04
54.9	1.11796e-04	1.12239e-04	1.12239e-04
55.0	1.11448e-04	1.11193e-04	1.11193e-04
55.1	1.11101e-04	1.10846e-04	1.10846e-04
55.2	1.10755e-04	1.10501e-04	1.10501e-04
55.3	1.10410e-04	1.10501e-04	1.10501e-04
55.4	1.10067e-04	1.10501e-04	1.10501e-04
55.5	1.09724e-04	1.09471e-04	1.09471e-04
55.6	1.09382e-04	1.09129e-04	1.09129e-04
55.7	1.09042e-04	1.08789e-04	1.08789e-04
55.8	1.08702e-04	1.08789e-04	1.08789e-04
55.9	1.08364e-04	1.08789e-04	1.08789e-04
56.0	1.08027e-04	1.07775e-04	1.07775e-04
56.1	1.07690e-04	1.07439e-04	1.07439e-04
56.2	1.07355e-04	1.07104e-04	1.07104e-04
56.3	1.07021e-04	1.07104e-04	1.07104e-04
56.4	1.06688e-04	1.07104e-04	1.07104e-04
56.5	1.06356e-04	1.06106e-04	1.06106e-04
56.6	1.06024e-04	1.05775e-04	1.05775e-04
56.7	1.05694e-04	1.05446e-04	1.05446e-04
56.8	1.05365e-04	1.05446e-04	1.05446e-04
56.9	1.05037e-04	1.05446e-04	1.05446e-04
57.0	1.04710e-04	1.04463e-04	1.04463e-04
57.1	1.04384e-04	1.04137e-04	1.04137e-04
57.2	1.04059e-04	1.03812e-04	1.03812e-04
57.3	1.03735e-04	1.03812e-04	1.03812e-04
57.4	1.03412e-04	1.03812e-04	1.03812e-04
57.5	1.03091e-04	1.02845e-04	1.02845e-04
57.6	1.02770e-04	1.02524e-04	1.02524e-04
57.7	1.02450e-04	1.02205e-04	1.02205e-04
57.8	1.02131e-04	1.02205e-04	1.02205e-04
57.9	1.01813e-04	1.02205e-04	1.02205e-04
58.0	1.01496e-04	1.01252e-04	1.01252e-04
58.1	1.01180e-04	1.00936e-04	1.00936e-04

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x	$A(x)$	P_{v1}	P_{v2}
58.2	1.00865e-04	1.00622e-04	1.00622e-04
58.3	1.00551e-04	1.00622e-04	1.00622e-04
58.4	1.00238e-04	1.00622e-04	1.00622e-04
58.5	9.99257e-05	9.96838e-05	9.96838e-05
58.6	9.96146e-05	9.93731e-05	9.93731e-05
58.7	9.93045e-05	9.90633e-05	9.90633e-05
58.8	9.89953e-05	9.90633e-05	9.90633e-05
58.9	9.86871e-05	9.90633e-05	9.90633e-05
59.0	9.83799e-05	9.81399e-05	9.81399e-05
59.1	9.80736e-05	9.78340e-05	9.78340e-05
59.2	9.77683e-05	9.75290e-05	9.75290e-05
59.3	9.74639e-05	9.75290e-05	9.75290e-05
59.4	9.71605e-05	9.75290e-05	9.75290e-05
59.5	9.68580e-05	9.66199e-05	9.66199e-05
59.6	9.65564e-05	9.63188e-05	9.63188e-05
59.7	9.62558e-05	9.60185e-05	9.60185e-05
59.8	9.59562e-05	9.60185e-05	9.60185e-05
59.9	9.56574e-05	9.60185e-05	9.60185e-05
60.0	9.53596e-05	9.51235e-05	9.51235e-05
60.1	9.50628e-05	9.48270e-05	9.48270e-05
60.2	9.47668e-05	9.45314e-05	9.45314e-05
60.3	9.44718e-05	9.45314e-05	9.45314e-05
60.4	9.41777e-05	9.45314e-05	9.45314e-05
60.5	9.38845e-05	9.36502e-05	9.36502e-05
60.6	9.35922e-05	9.33583e-05	9.33583e-05
60.7	9.33008e-05	9.30673e-05	9.30673e-05
60.8	9.30104e-05	9.30673e-05	9.30673e-05
60.9	9.27208e-05	9.30673e-05	9.30673e-05
61.0	9.24321e-05	9.21998e-05	9.21998e-05
61.1	9.21444e-05	9.19124e-05	9.19124e-05
61.2	9.18575e-05	9.16259e-05	9.16259e-05
61.3	9.15715e-05	9.16259e-05	9.16259e-05
61.4	9.12865e-05	9.16259e-05	9.16259e-05
61.5	9.10023e-05	9.07718e-05	9.07718e-05
61.6	9.07190e-05	9.04889e-05	9.04889e-05
61.7	9.04365e-05	9.02068e-05	9.02068e-05
61.8	9.01550e-05	9.02068e-05	9.02068e-05
61.9	8.98743e-05	9.02068e-05	9.02068e-05
62.0	8.95945e-05	8.93660e-05	8.93660e-05
62.1	8.93156e-05	8.90874e-05	8.90874e-05

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x	$A(x)$	P_{v1}	P_{v2}
62.2	8.90375e-05	8.88097e-05	8.88097e-05
62.3	8.87603e-05	8.88097e-05	8.88097e-05
62.4	8.84840e-05	8.88097e-05	8.88097e-05
62.5	8.82085e-05	8.79819e-05	8.79819e-05
62.6	8.79339e-05	8.77076e-05	8.77076e-05
62.7	8.76602e-05	8.74343e-05	8.74343e-05
62.8	8.73873e-05	8.74343e-05	8.74343e-05
62.9	8.71152e-05	8.74343e-05	8.74343e-05
63.0	8.68440e-05	8.66192e-05	8.66192e-05
63.1	8.65736e-05	8.63492e-05	8.63492e-05
63.2	8.63041e-05	8.60801e-05	8.60801e-05
63.3	8.60354e-05	8.60801e-05	8.60801e-05
63.4	8.57676e-05	8.60801e-05	8.60801e-05
63.5	8.55006e-05	8.52777e-05	8.52777e-05
63.6	8.52344e-05	8.50119e-05	8.50119e-05
63.7	8.49690e-05	8.47469e-05	8.47469e-05
63.8	8.47045e-05	8.47469e-05	8.47469e-05
63.9	8.44408e-05	8.47469e-05	8.47469e-05
64.0	8.41779e-05	8.39569e-05	8.39569e-05
64.1	8.39159e-05	8.39569e-05	8.39569e-05
64.2	8.36546e-05	8.34344e-05	8.34344e-05
64.3	8.33942e-05	8.31743e-05	8.31743e-05
64.4	8.31345e-05	8.29151e-05	8.29151e-05
64.5	8.28757e-05	8.26566e-05	8.26566e-05
64.6	8.26177e-05	8.26566e-05	8.26566e-05
64.7	8.23605e-05	8.21422e-05	8.21422e-05
64.8	8.21041e-05	8.18861e-05	8.18861e-05
64.9	8.18485e-05	8.16309e-05	8.16309e-05
65.0	8.15937e-05	8.13765e-05	8.13765e-05
65.1	8.13397e-05	8.13765e-05	8.13765e-05
65.2	8.10864e-05	8.08700e-05	8.08700e-05
65.3	8.08340e-05	8.06179e-05	8.06179e-05
65.4	8.05824e-05	8.03666e-05	8.03666e-05
65.5	8.03315e-05	8.01161e-05	8.01161e-05
65.6	8.00814e-05	8.01161e-05	8.01161e-05
65.7	7.98321e-05	7.96175e-05	7.96175e-05
65.8	7.95835e-05	7.93693e-05	7.93693e-05
65.9	7.93358e-05	7.91219e-05	7.91219e-05
66.0	7.90888e-05	7.88753e-05	7.88753e-05
66.1	7.88426e-05	7.88753e-05	7.88753e-05

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x	$A(x)$	P_{v1}	P_{v2}
66.2	7.85971e-05	7.83844e-05	7.83844e-05
66.3	7.83524e-05	7.81400e-05	7.81400e-05
66.4	7.81085e-05	7.78965e-05	7.78965e-05
66.5	7.78653e-05	7.76537e-05	7.76537e-05
66.6	7.76229e-05	7.76537e-05	7.76537e-05
66.7	7.73813e-05	7.71704e-05	7.71704e-05
66.8	7.71404e-05	7.69298e-05	7.69298e-05
66.9	7.69002e-05	7.66900e-05	7.66900e-05
67.0	7.66608e-05	7.64510e-05	7.64510e-05
67.1	7.64221e-05	7.64510e-05	7.64510e-05
67.2	7.61842e-05	7.59752e-05	7.59752e-05
67.3	7.59470e-05	7.57383e-05	7.57383e-05
67.4	7.57106e-05	7.55023e-05	7.55023e-05
67.5	7.54749e-05	7.52669e-05	7.52669e-05
67.6	7.52399e-05	7.52669e-05	7.52669e-05
67.7	7.50057e-05	7.47985e-05	7.47985e-05
67.8	7.47722e-05	7.45653e-05	7.45653e-05
67.9	7.45394e-05	7.43329e-05	7.43329e-05
68.0	7.43073e-05	7.41012e-05	7.41012e-05
68.1	7.40760e-05	7.41012e-05	7.41012e-05
68.2	7.38454e-05	7.36400e-05	7.36400e-05
68.3	7.36155e-05	7.34105e-05	7.34105e-05
68.4	7.33863e-05	7.31817e-05	7.31817e-05
68.5	7.31579e-05	7.29536e-05	7.29536e-05
68.6	7.29301e-05	7.29536e-05	7.29536e-05
68.7	7.27030e-05	7.24995e-05	7.24995e-05
68.8	7.24767e-05	7.22735e-05	7.22735e-05
68.9	7.22511e-05	7.20482e-05	7.20482e-05
69.0	7.20261e-05	7.18237e-05	7.18237e-05
69.1	7.18019e-05	7.18237e-05	7.18237e-05
69.2	7.15784e-05	7.13766e-05	7.13766e-05
69.3	7.13555e-05	7.11542e-05	7.11542e-05
69.4	7.11334e-05	7.09324e-05	7.09324e-05
69.5	7.09119e-05	7.07113e-05	7.07113e-05
69.6	7.06912e-05	7.07113e-05	7.07113e-05
69.7	7.04711e-05	7.02712e-05	7.02712e-05
69.8	7.02517e-05	7.00521e-05	7.00521e-05
69.9	7.00330e-05	6.98338e-05	6.98338e-05
70.0	6.98150e-05	6.96161e-05	6.96161e-05
70.1	6.95976e-05	6.96161e-05	6.96161e-05

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x	$A(x)$	P_{v1}	P_{v2}
70.2	6.93809e-05	6.91828e-05	6.91828e-05
70.3	6.91649e-05	6.89672e-05	6.89672e-05
70.4	6.89496e-05	6.87522e-05	6.87522e-05
70.5	6.87350e-05	6.85379e-05	6.85379e-05
70.6	6.85210e-05	6.85379e-05	6.85379e-05
70.7	6.83077e-05	6.81113e-05	6.81113e-05
70.8	6.80950e-05	6.78990e-05	6.78990e-05
70.9	6.78830e-05	6.76874e-05	6.76874e-05
71.0	6.76717e-05	6.74764e-05	6.74764e-05
71.1	6.74610e-05	6.74764e-05	6.74764e-05
71.2	6.72510e-05	6.70564e-05	6.70564e-05
71.3	6.70416e-05	6.68474e-05	6.68474e-05
71.4	6.68329e-05	6.66391e-05	6.66391e-05
71.5	6.66248e-05	6.64314e-05	6.64314e-05
71.6	6.64174e-05	6.64314e-05	6.64314e-05
71.7	6.62106e-05	6.60179e-05	6.60179e-05
71.8	6.60045e-05	6.58121e-05	6.58121e-05
71.9	6.57990e-05	6.56070e-05	6.56070e-05
72.0	6.55942e-05	6.54025e-05	6.54025e-05
72.1	6.53900e-05	6.54025e-05	6.54025e-05
72.2	6.51864e-05	6.49954e-05	6.49954e-05
72.3	6.49835e-05	6.47928e-05	6.47928e-05
72.4	6.47812e-05	6.45909e-05	6.45909e-05
72.5	6.45795e-05	6.43895e-05	6.43895e-05
72.6	6.43784e-05	6.43895e-05	6.43895e-05
72.7	6.41780e-05	6.39888e-05	6.39888e-05
72.8	6.39782e-05	6.37893e-05	6.37893e-05
72.9	6.37790e-05	6.35905e-05	6.35905e-05
73.0	6.35805e-05	6.33923e-05	6.33923e-05
73.1	6.33825e-05	6.33923e-05	6.33923e-05
73.2	6.31852e-05	6.29977e-05	6.29977e-05
73.3	6.29885e-05	6.28014e-05	6.28014e-05
73.4	6.27924e-05	6.26056e-05	6.26056e-05
73.5	6.25969e-05	6.24105e-05	6.24105e-05
73.6	6.24020e-05	6.24105e-05	6.24105e-05
73.7	6.22078e-05	6.20220e-05	6.20220e-05
73.8	6.20141e-05	6.18287e-05	6.18287e-05
73.9	6.18210e-05	6.16360e-05	6.16360e-05
74.0	6.16286e-05	6.14439e-05	6.14439e-05
74.1	6.14367e-05	6.14439e-05	6.14439e-05

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x	$A(x)$	P_{v1}	P_{v2}
74.2	6.12454e-05	6.10614e-05	6.10614e-05
74.3	6.10548e-05	6.08711e-05	6.08711e-05
74.4	6.08647e-05	6.06814e-05	6.06814e-05
74.5	6.06752e-05	6.04922e-05	6.04922e-05
74.6	6.04863e-05	6.04922e-05	6.04922e-05
74.7	6.02980e-05	6.01157e-05	6.01157e-05
74.8	6.01103e-05	5.99284e-05	5.99284e-05
74.9	5.99231e-05	5.97416e-05	5.97416e-05
75.0	5.97366e-05	5.95554e-05	5.95554e-05
75.1	5.95506e-05	5.95554e-05	5.95554e-05
75.2	5.93652e-05	5.91847e-05	5.91847e-05
75.3	5.91804e-05	5.90002e-05	5.90002e-05
75.4	5.89962e-05	5.88163e-05	5.88163e-05
75.5	5.88125e-05	5.86330e-05	5.86330e-05
75.6	5.86294e-05	5.86330e-05	5.86330e-05
75.7	5.84469e-05	5.82680e-05	5.82680e-05
75.8	5.82649e-05	5.80864e-05	5.80864e-05
75.9	5.80835e-05	5.79054e-05	5.79054e-05
76.0	5.79027e-05	5.77249e-05	5.77249e-05
76.1	5.77224e-05	5.77249e-05	5.77249e-05
76.2	5.75427e-05	5.73656e-05	5.73656e-05
76.3	5.73636e-05	5.71868e-05	5.71868e-05
76.4	5.71850e-05	5.70085e-05	5.70085e-05
76.5	5.70070e-05	5.68308e-05	5.68308e-05
76.6	5.68295e-05	5.68308e-05	5.68308e-05
76.7	5.66526e-05	5.64771e-05	5.64771e-05
76.8	5.64762e-05	5.64771e-05	5.64771e-05
76.9	5.63004e-05	5.61256e-05	5.61256e-05
77.0	5.61251e-05	5.59507e-05	5.59507e-05
77.1	5.59504e-05	5.59507e-05	5.59507e-05
77.2	5.57762e-05	5.56024e-05	5.56024e-05
77.3	5.56026e-05	5.56024e-05	5.56024e-05
77.4	5.54295e-05	5.52563e-05	5.52563e-05
77.5	5.52569e-05	5.50841e-05	5.50841e-05
77.6	5.50849e-05	5.50841e-05	5.50841e-05
77.7	5.49134e-05	5.47413e-05	5.47413e-05
77.8	5.47424e-05	5.47413e-05	5.47413e-05
77.9	5.45720e-05	5.44005e-05	5.44005e-05
78.0	5.44021e-05	5.42310e-05	5.42310e-05
78.1	5.42327e-05	5.42310e-05	5.42310e-05

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x	$A(x)$	P_{v1}	P_{v2}
78.2	5.40639e-05	5.38934e-05	5.38934e-05
78.3	5.38956e-05	5.38934e-05	5.38934e-05
78.4	5.37278e-05	5.35580e-05	5.35580e-05
78.5	5.35605e-05	5.33911e-05	5.33911e-05
78.6	5.33938e-05	5.33911e-05	5.33911e-05
78.7	5.32276e-05	5.30587e-05	5.30587e-05
78.8	5.30618e-05	5.30587e-05	5.30587e-05
78.9	5.28967e-05	5.27285e-05	5.27285e-05
79.0	5.27320e-05	5.25642e-05	5.25642e-05
79.1	5.25678e-05	5.25642e-05	5.25642e-05
79.2	5.24042e-05	5.22370e-05	5.22370e-05
79.3	5.22410e-05	5.22370e-05	5.22370e-05
79.4	5.20784e-05	5.19119e-05	5.19119e-05
79.5	5.19162e-05	5.17500e-05	5.17500e-05
79.6	5.17546e-05	5.17500e-05	5.17500e-05
79.7	5.15935e-05	5.14279e-05	5.14279e-05
79.8	5.14329e-05	5.14279e-05	5.14279e-05
79.9	5.12727e-05	5.11079e-05	5.11079e-05
80.0	5.11131e-05	5.09486e-05	5.09486e-05
80.1	5.09540e-05	5.09486e-05	5.09486e-05
80.2	5.07954e-05	5.06314e-05	5.06314e-05
80.3	5.06372e-05	5.06314e-05	5.06314e-05
80.4	5.04796e-05	5.03163e-05	5.03163e-05
80.5	5.03224e-05	5.01595e-05	5.01595e-05
80.6	5.01658e-05	5.01595e-05	5.01595e-05
80.7	5.00096e-05	4.98473e-05	4.98473e-05
80.8	4.98539e-05	4.98473e-05	4.98473e-05
80.9	4.96987e-05	4.95370e-05	4.95370e-05
81.0	4.95440e-05	4.93826e-05	4.93826e-05
81.1	4.93897e-05	4.93826e-05	4.93826e-05
81.2	4.92360e-05	4.90752e-05	4.90752e-05
81.3	4.90827e-05	4.90752e-05	4.90752e-05
81.4	4.89299e-05	4.87698e-05	4.87698e-05
81.5	4.87776e-05	4.86178e-05	4.86178e-05
81.6	4.86257e-05	4.86178e-05	4.86178e-05
81.7	4.84743e-05	4.83152e-05	4.83152e-05
81.8	4.83234e-05	4.83152e-05	4.83152e-05
81.9	4.81730e-05	4.80145e-05	4.80145e-05
82.0	4.80230e-05	4.78648e-05	4.78648e-05
82.1	4.78735e-05	4.78648e-05	4.78648e-05

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x	$A(x)$	P_{v1}	P_{v2}
82.2	4.77244e-05	4.75669e-05	4.75669e-05
82.3	4.75759e-05	4.75669e-05	4.75669e-05
82.4	4.74278e-05	4.72708e-05	4.72708e-05
82.5	4.72801e-05	4.71235e-05	4.71235e-05
82.6	4.71329e-05	4.71235e-05	4.71235e-05
82.7	4.69862e-05	4.68302e-05	4.68302e-05
82.8	4.68399e-05	4.68302e-05	4.68302e-05
82.9	4.66941e-05	4.65387e-05	4.65387e-05
83.0	4.65487e-05	4.63936e-05	4.63936e-05
83.1	4.64038e-05	4.63936e-05	4.63936e-05
83.2	4.62593e-05	4.61049e-05	4.61049e-05
83.3	4.61153e-05	4.61049e-05	4.61049e-05
83.4	4.59717e-05	4.58179e-05	4.58179e-05
83.5	4.58286e-05	4.56751e-05	4.56751e-05
83.6	4.56859e-05	4.56751e-05	4.56751e-05
83.7	4.55437e-05	4.53908e-05	4.53908e-05
83.8	4.54019e-05	4.53908e-05	4.53908e-05
83.9	4.52606e-05	4.51083e-05	4.51083e-05
84.0	4.51197e-05	4.49677e-05	4.49677e-05
84.1	4.49792e-05	4.49677e-05	4.49677e-05
84.2	4.48392e-05	4.46878e-05	4.46878e-05
84.3	4.46996e-05	4.46878e-05	4.46878e-05
84.4	4.45604e-05	4.44097e-05	4.44097e-05
84.5	4.44217e-05	4.42713e-05	4.42713e-05
84.6	4.42834e-05	4.42713e-05	4.42713e-05
84.7	4.41455e-05	4.39957e-05	4.39957e-05
84.8	4.40081e-05	4.39957e-05	4.39957e-05
84.9	4.38711e-05	4.37219e-05	4.37219e-05
85.0	4.37345e-05	4.35856e-05	4.35856e-05
85.1	4.35984e-05	4.35856e-05	4.35856e-05
85.2	4.34626e-05	4.33143e-05	4.33143e-05
85.3	4.33273e-05	4.33143e-05	4.33143e-05
85.4	4.31924e-05	4.30447e-05	4.30447e-05
85.5	4.30580e-05	4.29105e-05	4.29105e-05
85.6	4.29239e-05	4.29105e-05	4.29105e-05
85.7	4.27903e-05	4.26435e-05	4.26435e-05
85.8	4.26571e-05	4.26435e-05	4.26435e-05
85.9	4.25243e-05	4.23780e-05	4.23780e-05
86.0	4.23919e-05	4.22460e-05	4.22460e-05
86.1	4.22599e-05	4.22460e-05	4.22460e-05

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x	$A(x)$	P_{v1}	P_{v2}
86.2	4.21283e-05	4.19830e-05	4.19830e-05
86.3	4.19972e-05	4.19830e-05	4.19830e-05
86.4	4.18664e-05	4.17217e-05	4.17217e-05
86.5	4.17361e-05	4.15917e-05	4.15917e-05
86.6	4.16062e-05	4.15917e-05	4.15917e-05
86.7	4.14766e-05	4.13328e-05	4.13328e-05
86.8	4.13475e-05	4.13328e-05	4.13328e-05
86.9	4.12188e-05	4.10755e-05	4.10755e-05
87.0	4.10905e-05	4.09475e-05	4.09475e-05
87.1	4.09626e-05	4.09475e-05	4.09475e-05
87.2	4.08350e-05	4.06926e-05	4.06926e-05
87.3	4.07079e-05	4.06926e-05	4.06926e-05
87.4	4.05812e-05	4.04394e-05	4.04394e-05
87.5	4.04548e-05	4.03133e-05	4.03133e-05
87.6	4.03289e-05	4.03133e-05	4.03133e-05
87.7	4.02033e-05	4.00624e-05	4.00624e-05
87.8	4.00782e-05	4.00624e-05	4.00624e-05
87.9	3.99534e-05	3.98130e-05	3.98130e-05
88.0	3.98290e-05	3.96889e-05	3.96889e-05
88.1	3.97050e-05	3.96889e-05	3.96889e-05
88.2	3.95814e-05	3.94419e-05	3.94419e-05
88.3	3.94582e-05	3.94419e-05	3.94419e-05
88.4	3.93353e-05	3.91964e-05	3.91964e-05
88.5	3.92129e-05	3.90742e-05	3.90742e-05
88.6	3.90908e-05	3.90742e-05	3.90742e-05
88.7	3.89691e-05	3.88310e-05	3.88310e-05
88.8	3.88478e-05	3.88310e-05	3.88310e-05
88.9	3.87268e-05	3.85894e-05	3.85894e-05
89.0	3.86063e-05	3.84691e-05	3.84691e-05
89.1	3.84861e-05	3.84691e-05	3.84691e-05
89.2	3.83663e-05	3.82296e-05	3.82296e-05
89.3	3.82468e-05	3.82296e-05	3.82296e-05
89.4	3.81278e-05	3.79917e-05	3.79917e-05
89.5	3.80091e-05	3.78733e-05	3.78733e-05
89.6	3.78907e-05	3.78733e-05	3.78733e-05
89.7	3.77728e-05	3.76375e-05	3.76375e-05
89.8	3.76552e-05	3.76375e-05	3.76375e-05
89.9	3.75379e-05	3.74033e-05	3.74033e-05
90.0	3.74211e-05	3.72867e-05	3.72867e-05
90.1	3.73046e-05	3.72867e-05	3.72867e-05

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x	$A(x)$	P_{v1}	P_{v2}
90.2	3.71884e-05	3.70546e-05	3.70546e-05
90.3	3.70727e-05	3.70546e-05	3.70546e-05
90.4	3.69573e-05	3.68240e-05	3.68240e-05
90.5	3.68422e-05	3.67092e-05	3.67092e-05
90.6	3.67275e-05	3.67092e-05	3.67092e-05
90.7	3.66132e-05	3.64807e-05	3.64807e-05
90.8	3.64992e-05	3.64807e-05	3.64807e-05
90.9	3.63855e-05	3.62537e-05	3.62537e-05
91.0	3.62723e-05	3.61407e-05	3.61407e-05
91.1	3.61593e-05	3.61407e-05	3.61407e-05
91.2	3.60468e-05	3.59157e-05	3.59157e-05
91.3	3.59346e-05	3.59157e-05	3.59157e-05
91.4	3.58227e-05	3.56922e-05	3.56922e-05
91.5	3.57112e-05	3.55809e-05	3.55809e-05
91.6	3.56000e-05	3.55809e-05	3.55809e-05
91.7	3.54891e-05	3.53595e-05	3.53595e-05
91.8	3.53787e-05	3.53595e-05	3.53595e-05
91.9	3.52685e-05	3.51394e-05	3.51394e-05
92.0	3.51587e-05	3.50299e-05	3.50299e-05
92.1	3.50493e-05	3.50299e-05	3.50299e-05
92.2	3.49402e-05	3.48118e-05	3.48118e-05
92.3	3.48314e-05	3.48118e-05	3.48118e-05
92.4	3.47229e-05	3.45952e-05	3.45952e-05
92.5	3.46148e-05	3.44873e-05	3.44873e-05
92.6	3.45071e-05	3.44873e-05	3.44873e-05
92.7	3.43996e-05	3.42727e-05	3.42727e-05
92.8	3.42926e-05	3.42727e-05	3.42727e-05
92.9	3.41858e-05	3.40593e-05	3.40593e-05
93.0	3.40794e-05	3.39532e-05	3.39532e-05
93.1	3.39733e-05	3.39532e-05	3.39532e-05
93.2	3.38675e-05	3.37419e-05	3.37419e-05
93.3	3.37621e-05	3.37419e-05	3.37419e-05
93.4	3.36570e-05	3.35318e-05	3.35318e-05
93.5	3.35522e-05	3.34273e-05	3.34273e-05
93.6	3.34477e-05	3.34273e-05	3.34273e-05
93.7	3.33436e-05	3.32193e-05	3.32193e-05
93.8	3.32398e-05	3.32193e-05	3.32193e-05
93.9	3.31363e-05	3.30125e-05	3.30125e-05
94.0	3.30331e-05	3.29096e-05	3.29096e-05
94.1	3.29303e-05	3.29096e-05	3.29096e-05

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x	$A(x)$	P_{v1}	P_{v2}
94.2	3.28278e-05	3.27048e-05	3.27048e-05
94.3	3.27256e-05	3.27048e-05	3.27048e-05
94.4	3.26237e-05	3.25012e-05	3.25012e-05
94.5	3.25221e-05	3.23999e-05	3.23999e-05
94.6	3.24209e-05	3.23999e-05	3.23999e-05
94.7	3.23200e-05	3.21983e-05	3.21983e-05
94.8	3.22193e-05	3.21983e-05	3.21983e-05
94.9	3.21190e-05	3.19978e-05	3.19978e-05
95.0	3.20190e-05	3.18981e-05	3.18981e-05
95.1	3.19194e-05	3.18981e-05	3.18981e-05
95.2	3.18200e-05	3.16996e-05	3.16996e-05
95.3	3.17209e-05	3.16996e-05	3.16996e-05
95.4	3.16222e-05	3.15023e-05	3.15023e-05
95.5	3.15237e-05	3.14041e-05	3.14041e-05
95.6	3.14256e-05	3.14041e-05	3.14041e-05
95.7	3.13277e-05	3.12086e-05	3.12086e-05
95.8	3.12302e-05	3.12086e-05	3.12086e-05
95.9	3.11330e-05	3.10144e-05	3.10144e-05
96.0	3.10361e-05	3.09177e-05	3.09177e-05
96.1	3.09394e-05	3.09177e-05	3.09177e-05
96.2	3.08431e-05	3.07253e-05	3.07253e-05
96.3	3.07471e-05	3.07253e-05	3.07253e-05
96.4	3.06514e-05	3.05340e-05	3.05340e-05
96.5	3.05560e-05	3.04389e-05	3.04389e-05
96.6	3.04608e-05	3.04389e-05	3.04389e-05
96.7	3.03660e-05	3.02494e-05	3.02494e-05
96.8	3.02715e-05	3.02494e-05	3.02494e-05
96.9	3.01772e-05	3.00611e-05	3.00611e-05
97.0	3.00833e-05	2.99674e-05	2.99674e-05
97.1	2.99896e-05	2.99674e-05	2.99674e-05
97.2	2.98963e-05	2.97809e-05	2.97809e-05
97.3	2.98032e-05	2.97809e-05	2.97809e-05
97.4	2.97104e-05	2.95955e-05	2.95955e-05
97.5	2.96179e-05	2.95033e-05	2.95033e-05
97.6	2.95257e-05	2.95033e-05	2.95033e-05
97.7	2.94338e-05	2.93197e-05	2.93197e-05
97.8	2.93421e-05	2.93197e-05	2.93197e-05
97.9	2.92508e-05	2.91372e-05	2.91372e-05
98.0	2.91597e-05	2.90464e-05	2.90464e-05
98.1	2.90689e-05	2.90464e-05	2.90464e-05

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x	$A(x)$	P_{v1}	P_{v2}
98.2	2.89784e-05	2.88656e-05	2.88656e-05
98.3	2.88882e-05	2.88656e-05	2.88656e-05
98.4	2.87983e-05	2.86859e-05	2.86859e-05
98.5	2.87086e-05	2.85965e-05	2.85965e-05
98.6	2.86193e-05	2.85965e-05	2.85965e-05
98.7	2.85302e-05	2.84185e-05	2.84185e-05
98.8	2.84413e-05	2.84185e-05	2.84185e-05
98.9	2.83528e-05	2.82416e-05	2.82416e-05
99.0	2.82645e-05	2.81536e-05	2.81536e-05
99.1	2.81765e-05	2.81536e-05	2.81536e-05
99.2	2.80888e-05	2.79784e-05	2.79784e-05
99.3	2.80014e-05	2.79784e-05	2.79784e-05
99.4	2.79142e-05	2.78042e-05	2.78042e-05
99.5	2.78273e-05	2.77176e-05	2.77176e-05
99.6	2.77407e-05	2.77176e-05	2.77176e-05
99.7	2.76543e-05	2.75450e-05	2.75450e-05
99.8	2.75682e-05	2.75450e-05	2.75450e-05
99.9	2.74824e-05	2.73736e-05	2.73736e-05
100.0	2.73968e-05	2.72883e-05	2.72883e-05
100.1	2.73115e-05	2.72883e-05	2.72883e-05
100.2	2.72265e-05	2.71184e-05	2.71184e-05
100.3	2.71417e-05	2.71184e-05	2.71184e-05
100.4	2.70572e-05	2.69496e-05	2.69496e-05
100.5	2.69730e-05	2.68656e-05	2.68656e-05
100.6	2.68890e-05	2.68656e-05	2.68656e-05
100.7	2.68053e-05	2.66984e-05	2.66984e-05
100.8	2.67219e-05	2.66984e-05	2.66984e-05
100.9	2.66387e-05	2.65322e-05	2.65322e-05
101.0	2.65558e-05	2.64495e-05	2.64495e-05
101.1	2.64731e-05	2.64495e-05	2.64495e-05
101.2	2.63907e-05	2.62849e-05	2.62849e-05
101.3	2.63085e-05	2.62849e-05	2.62849e-05
101.4	2.62266e-05	2.61213e-05	2.61213e-05
101.5	2.61449e-05	2.60399e-05	2.60399e-05
101.6	2.60636e-05	2.60399e-05	2.60399e-05
101.7	2.59824e-05	2.58778e-05	2.58778e-05
101.8	2.59015e-05	2.58778e-05	2.58778e-05
101.9	2.58209e-05	2.57168e-05	2.57168e-05
102.0	2.57405e-05	2.56366e-05	2.56366e-05
102.1	2.56604e-05	2.56366e-05	2.56366e-05

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x	$A(x)$	P_{v1}	P_{v2}
102.2	2.55805e-05	2.54770e-05	2.54770e-05
102.3	2.55008e-05	2.54770e-05	2.54770e-05
102.4	2.54215e-05	2.53185e-05	2.53185e-05
102.5	2.53423e-05	2.52395e-05	2.52395e-05
102.6	2.52634e-05	2.52395e-05	2.52395e-05
102.7	2.51848e-05	2.50824e-05	2.50824e-05
102.8	2.51064e-05	2.50824e-05	2.50824e-05
102.9	2.50282e-05	2.49263e-05	2.49263e-05
103.0	2.49503e-05	2.48486e-05	2.48486e-05
103.1	2.48726e-05	2.48486e-05	2.48486e-05
103.2	2.47952e-05	2.46940e-05	2.46940e-05
103.3	2.47180e-05	2.46940e-05	2.46940e-05
103.4	2.46410e-05	2.45403e-05	2.45403e-05
103.5	2.45643e-05	2.44638e-05	2.44638e-05
103.6	2.44878e-05	2.44638e-05	2.44638e-05
103.7	2.44116e-05	2.43115e-05	2.43115e-05
103.8	2.43356e-05	2.43115e-05	2.43115e-05
103.9	2.42598e-05	2.41602e-05	2.41602e-05
104.0	2.41843e-05	2.40849e-05	2.40849e-05
104.1	2.41090e-05	2.40849e-05	2.40849e-05
104.2	2.40340e-05	2.39350e-05	2.39350e-05
104.3	2.39591e-05	2.39350e-05	2.39350e-05
104.4	2.38846e-05	2.37860e-05	2.37860e-05
104.5	2.38102e-05	2.37119e-05	2.37119e-05
104.6	2.37361e-05	2.37119e-05	2.37119e-05
104.7	2.36622e-05	2.35643e-05	2.35643e-05
104.8	2.35885e-05	2.35643e-05	2.35643e-05
104.9	2.35151e-05	2.34176e-05	2.34176e-05
105.0	2.34419e-05	2.33446e-05	2.33446e-05
105.1	2.33689e-05	2.33446e-05	2.33446e-05
105.2	2.32961e-05	2.31993e-05	2.31993e-05
105.3	2.32236e-05	2.31993e-05	2.31993e-05
105.4	2.31513e-05	2.30549e-05	2.30549e-05
105.5	2.30792e-05	2.29831e-05	2.29831e-05
105.6	2.30074e-05	2.29831e-05	2.29831e-05
105.7	2.29358e-05	2.28400e-05	2.28400e-05
105.8	2.28644e-05	2.28400e-05	2.28400e-05
105.9	2.27932e-05	2.26979e-05	2.26979e-05
106.0	2.27222e-05	2.26271e-05	2.26271e-05
106.1	2.26515e-05	2.26271e-05	2.26271e-05

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x	$A(x)$	P_{v1}	P_{v2}
106.2	2.25810e-05	2.24863e-05	2.24863e-05
106.3	2.25107e-05	2.24863e-05	2.24863e-05
106.4	2.24406e-05	2.23463e-05	2.23463e-05
106.5	2.23707e-05	2.22767e-05	2.22767e-05
106.6	2.23011e-05	2.22767e-05	2.22767e-05
106.7	2.22316e-05	2.21380e-05	2.21380e-05
106.8	2.21624e-05	2.21380e-05	2.21380e-05
106.9	2.20934e-05	2.20002e-05	2.20002e-05
107.0	2.20246e-05	2.19317e-05	2.19317e-05
107.1	2.19561e-05	2.19317e-05	2.19317e-05
107.2	2.18877e-05	2.17952e-05	2.17952e-05
107.3	2.18196e-05	2.17952e-05	2.17952e-05
107.4	2.17517e-05	2.16595e-05	2.16595e-05
107.5	2.16839e-05	2.15920e-05	2.15920e-05
107.6	2.16164e-05	2.15920e-05	2.15920e-05
107.7	2.15491e-05	2.14576e-05	2.14576e-05
107.8	2.14820e-05	2.14576e-05	2.14576e-05
107.9	2.14152e-05	2.13240e-05	2.13240e-05
108.0	2.13485e-05	2.12576e-05	2.12576e-05
108.1	2.12820e-05	2.12576e-05	2.12576e-05
108.2	2.12158e-05	2.11253e-05	2.11253e-05
108.3	2.11497e-05	2.11253e-05	2.11253e-05
108.4	2.10839e-05	2.09938e-05	2.09938e-05
108.5	2.10182e-05	2.09283e-05	2.09283e-05
108.6	2.09528e-05	2.09283e-05	2.09283e-05
108.7	2.08876e-05	2.07981e-05	2.07981e-05
108.8	2.08226e-05	2.07981e-05	2.07981e-05
108.9	2.07577e-05	2.06686e-05	2.06686e-05
109.0	2.06931e-05	2.06042e-05	2.06042e-05
109.1	2.06287e-05	2.06042e-05	2.06042e-05
109.2	2.05645e-05	2.04760e-05	2.04760e-05
109.3	2.05004e-05	2.04760e-05	2.04760e-05
109.4	2.04366e-05	2.03485e-05	2.03485e-05
109.5	2.03730e-05	2.02851e-05	2.02851e-05
109.6	2.03096e-05	2.02851e-05	2.02851e-05
109.7	2.02463e-05	2.01588e-05	2.01588e-05
109.8	2.01833e-05	2.01588e-05	2.01588e-05
109.9	2.01205e-05	2.00334e-05	2.00334e-05
110.0	2.00578e-05	1.99709e-05	1.99709e-05
110.1	1.99954e-05	1.99709e-05	1.99709e-05

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x	$A(x)$	P_{v1}	P_{v2}
110.2	1.99331e-05	1.98466e-05	1.98466e-05
110.3	1.98711e-05	1.98466e-05	1.98466e-05
110.4	1.98092e-05	1.97231e-05	1.97231e-05
110.5	1.97476e-05	1.96616e-05	1.96616e-05
110.6	1.96861e-05	1.96616e-05	1.96616e-05
110.7	1.96248e-05	1.95392e-05	1.95392e-05
110.8	1.95637e-05	1.95392e-05	1.95392e-05
110.9	1.95028e-05	1.94176e-05	1.94176e-05
111.0	1.94421e-05	1.93571e-05	1.93571e-05
111.1	1.93815e-05	1.93571e-05	1.93571e-05
111.2	1.93212e-05	1.92366e-05	1.92366e-05
111.3	1.92611e-05	1.92366e-05	1.92366e-05
111.4	1.92011e-05	1.91169e-05	1.91169e-05
111.5	1.91413e-05	1.90573e-05	1.90573e-05
111.6	1.90817e-05	1.90573e-05	1.90573e-05
111.7	1.90223e-05	1.89387e-05	1.89387e-05
111.8	1.89631e-05	1.89387e-05	1.89387e-05
111.9	1.89041e-05	1.88208e-05	1.88208e-05
112.0	1.88452e-05	1.87621e-05	1.87621e-05
112.1	1.87865e-05	1.87621e-05	1.87621e-05
112.2	1.87281e-05	1.86454e-05	1.86454e-05
112.3	1.86697e-05	1.86454e-05	1.86454e-05
112.4	1.86116e-05	1.85293e-05	1.85293e-05
112.5	1.85537e-05	1.84716e-05	1.84716e-05
112.6	1.84959e-05	1.84716e-05	1.84716e-05
112.7	1.84383e-05	1.83566e-05	1.83566e-05
112.8	1.83809e-05	1.83566e-05	1.83566e-05
112.9	1.83237e-05	1.82423e-05	1.82423e-05
113.0	1.82667e-05	1.81855e-05	1.81855e-05
113.1	1.82098e-05	1.81855e-05	1.81855e-05
113.2	1.81531e-05	1.80723e-05	1.80723e-05
113.3	1.80966e-05	1.80723e-05	1.80723e-05
113.4	1.80403e-05	1.79598e-05	1.79598e-05
113.5	1.79841e-05	1.79038e-05	1.79038e-05
113.6	1.79281e-05	1.79038e-05	1.79038e-05
113.7	1.78723e-05	1.77924e-05	1.77924e-05
113.8	1.78166e-05	1.77924e-05	1.77924e-05
113.9	1.77612e-05	1.76816e-05	1.76816e-05
114.0	1.77059e-05	1.76265e-05	1.76265e-05
114.1	1.76508e-05	1.76265e-05	1.76265e-05

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x	$A(x)$	P_{v1}	P_{v2}
114.2	1.75958e-05	1.75168e-05	1.75168e-05
114.3	1.75410e-05	1.75168e-05	1.75168e-05
114.4	1.74864e-05	1.74078e-05	1.74078e-05
114.5	1.74320e-05	1.73535e-05	1.73535e-05
114.6	1.73777e-05	1.73535e-05	1.73535e-05
114.7	1.73236e-05	1.72455e-05	1.72455e-05
114.8	1.72697e-05	1.72455e-05	1.72455e-05
114.9	1.72159e-05	1.71382e-05	1.71382e-05
115.0	1.71623e-05	1.70848e-05	1.70848e-05
115.1	1.71089e-05	1.70848e-05	1.70848e-05
115.2	1.70556e-05	1.69784e-05	1.69784e-05
115.3	1.70025e-05	1.69784e-05	1.69784e-05
115.4	1.69496e-05	1.68728e-05	1.68728e-05
115.5	1.68968e-05	1.68202e-05	1.68202e-05
115.6	1.68442e-05	1.68202e-05	1.68202e-05
115.7	1.67918e-05	1.67155e-05	1.67155e-05
115.8	1.67395e-05	1.67155e-05	1.67155e-05
115.9	1.66874e-05	1.66114e-05	1.66114e-05
116.0	1.66354e-05	1.65597e-05	1.65597e-05
116.1	1.65837e-05	1.65597e-05	1.65597e-05
116.2	1.65320e-05	1.64566e-05	1.64566e-05
116.3	1.64806e-05	1.64566e-05	1.64566e-05
116.4	1.64293e-05	1.63542e-05	1.63542e-05
116.5	1.63781e-05	1.63032e-05	1.63032e-05
116.6	1.63271e-05	1.63032e-05	1.63032e-05
116.7	1.62763e-05	1.62017e-05	1.62017e-05
116.8	1.62256e-05	1.62017e-05	1.62017e-05
116.9	1.61751e-05	1.61009e-05	1.61009e-05
117.0	1.61247e-05	1.60507e-05	1.60507e-05
117.1	1.60745e-05	1.60507e-05	1.60507e-05
117.2	1.60245e-05	1.59508e-05	1.59508e-05
117.3	1.59746e-05	1.59508e-05	1.59508e-05
117.4	1.59249e-05	1.58515e-05	1.58515e-05
117.5	1.58753e-05	1.58021e-05	1.58021e-05
117.6	1.58259e-05	1.58021e-05	1.58021e-05
117.7	1.57766e-05	1.57037e-05	1.57037e-05
117.8	1.57275e-05	1.57037e-05	1.57037e-05
117.9	1.56785e-05	1.56060e-05	1.56060e-05
118.0	1.56297e-05	1.55574e-05	1.55574e-05
118.1	1.55811e-05	1.55574e-05	1.55574e-05

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x	$A(x)$	P_{v1}	P_{v2}
118.2	1.55326e-05	1.54605e-05	1.54605e-05
118.3	1.54842e-05	1.54605e-05	1.54605e-05
118.4	1.54360e-05	1.53643e-05	1.53643e-05
118.5	1.53879e-05	1.53164e-05	1.53164e-05
118.6	1.53400e-05	1.53164e-05	1.53164e-05
118.7	1.52923e-05	1.52211e-05	1.52211e-05
118.8	1.52447e-05	1.52211e-05	1.52211e-05
118.9	1.51972e-05	1.51263e-05	1.51263e-05
119.0	1.51499e-05	1.50792e-05	1.50792e-05
119.1	1.51027e-05	1.50792e-05	1.50792e-05
119.2	1.50557e-05	1.49853e-05	1.49853e-05
119.3	1.50088e-05	1.49853e-05	1.49853e-05
119.4	1.49621e-05	1.48921e-05	1.48921e-05
119.5	1.49155e-05	1.48456e-05	1.48456e-05
119.6	1.48691e-05	1.48456e-05	1.48456e-05
119.7	1.48228e-05	1.47532e-05	1.47532e-05
119.8	1.47767e-05	1.47532e-05	1.47532e-05
119.9	1.47307e-05	1.46614e-05	1.46614e-05
120.0	1.46848e-05	1.46157e-05	1.46157e-05
120.1	1.46391e-05	1.46157e-05	1.46157e-05
120.2	1.45935e-05	1.45247e-05	1.45247e-05
120.3	1.45481e-05	1.45247e-05	1.45247e-05
120.4	1.45028e-05	1.44343e-05	1.44343e-05
120.5	1.44576e-05	1.43894e-05	1.43894e-05
120.6	1.44126e-05	1.43894e-05	1.43894e-05
120.7	1.43678e-05	1.42998e-05	1.42998e-05
120.8	1.43230e-05	1.42998e-05	1.42998e-05
120.9	1.42784e-05	1.42108e-05	1.42108e-05
121.0	1.42340e-05	1.41665e-05	1.41665e-05
121.1	1.41897e-05	1.41665e-05	1.41665e-05
121.2	1.41455e-05	1.40783e-05	1.40783e-05
121.3	1.41015e-05	1.40783e-05	1.40783e-05
121.4	1.40576e-05	1.39907e-05	1.39907e-05
121.5	1.40138e-05	1.39471e-05	1.39471e-05
121.6	1.39702e-05	1.39471e-05	1.39471e-05
121.7	1.39267e-05	1.38603e-05	1.38603e-05
121.8	1.38833e-05	1.38603e-05	1.38603e-05
121.9	1.38401e-05	1.37740e-05	1.37740e-05
122.0	1.37970e-05	1.37311e-05	1.37311e-05
122.1	1.37541e-05	1.37311e-05	1.37311e-05

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x	$A(x)$	P_{v1}	P_{v2}
122.2	1.37112e-05	1.36456e-05	1.36456e-05
122.3	1.36685e-05	1.36456e-05	1.36456e-05
122.4	1.36260e-05	1.35607e-05	1.35607e-05
122.5	1.35836e-05	1.35184e-05	1.35184e-05
122.6	1.35413e-05	1.35184e-05	1.35184e-05
122.7	1.34991e-05	1.34343e-05	1.34343e-05
122.8	1.34571e-05	1.34343e-05	1.34343e-05
122.9	1.34152e-05	1.33507e-05	1.33507e-05
123.0	1.33734e-05	1.33090e-05	1.33090e-05
123.1	1.33318e-05	1.33090e-05	1.33090e-05
123.2	1.32903e-05	1.32262e-05	1.32262e-05
123.3	1.32489e-05	1.32262e-05	1.32262e-05
123.4	1.32077e-05	1.31439e-05	1.31439e-05
123.5	1.31666e-05	1.31029e-05	1.31029e-05
123.6	1.31256e-05	1.31029e-05	1.31029e-05
123.7	1.30847e-05	1.30214e-05	1.30214e-05
123.8	1.30440e-05	1.30214e-05	1.30214e-05
123.9	1.30034e-05	1.29403e-05	1.29403e-05
124.0	1.29629e-05	1.29000e-05	1.29000e-05
124.1	1.29225e-05	1.29000e-05	1.29000e-05
124.2	1.28823e-05	1.28197e-05	1.28197e-05
124.3	1.28422e-05	1.28197e-05	1.28197e-05
124.4	1.28022e-05	1.27399e-05	1.27399e-05
124.5	1.27624e-05	1.27002e-05	1.27002e-05
124.6	1.27226e-05	1.27002e-05	1.27002e-05
124.7	1.26830e-05	1.26211e-05	1.26211e-05
124.8	1.26435e-05	1.26211e-05	1.26211e-05
124.9	1.26042e-05	1.25426e-05	1.25426e-05
125.0	1.25649e-05	1.25035e-05	1.25035e-05
125.1	1.25258e-05	1.25035e-05	1.25035e-05
125.2	1.24868e-05	1.24257e-05	1.24257e-05
125.3	1.24479e-05	1.24257e-05	1.24257e-05
125.4	1.24092e-05	1.23483e-05	1.23483e-05
125.5	1.23706e-05	1.23098e-05	1.23098e-05
125.6	1.23320e-05	1.23098e-05	1.23098e-05
125.7	1.22936e-05	1.22332e-05	1.22332e-05
125.8	1.22554e-05	1.22332e-05	1.22332e-05
125.9	1.22172e-05	1.21571e-05	1.21571e-05
126.0	1.21792e-05	1.21192e-05	1.21192e-05
126.1	1.21413e-05	1.21192e-05	1.21192e-05

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x	$A(x)$	P_{v1}	P_{v2}
126.2	1.21035e-05	1.20438e-05	1.20438e-05
126.3	1.20658e-05	1.20438e-05	1.20438e-05
126.4	1.20282e-05	1.19688e-05	1.19688e-05
126.5	1.19908e-05	1.19315e-05	1.19315e-05
126.6	1.19535e-05	1.19315e-05	1.19315e-05
126.7	1.19162e-05	1.18572e-05	1.18572e-05
126.8	1.18791e-05	1.18572e-05	1.18572e-05
126.9	1.18422e-05	1.17834e-05	1.17834e-05
127.0	1.18053e-05	1.17467e-05	1.17467e-05
127.1	1.17685e-05	1.17467e-05	1.17467e-05
127.2	1.17319e-05	1.16736e-05	1.16736e-05
127.3	1.16954e-05	1.16736e-05	1.16736e-05
127.4	1.16590e-05	1.16009e-05	1.16009e-05
127.5	1.16227e-05	1.15648e-05	1.15648e-05
127.6	1.15865e-05	1.15648e-05	1.15648e-05
127.7	1.15504e-05	1.14928e-05	1.14928e-05
127.8	1.15145e-05	1.14928e-05	1.14928e-05
127.9	1.14786e-05	1.14212e-05	1.14212e-05
128.0	1.14429e-05	1.13856e-05	1.13856e-05
128.1	1.14073e-05	1.13502e-05	1.13502e-05
128.2	1.13717e-05	1.13502e-05	1.13502e-05
128.3	1.13363e-05	1.12795e-05	1.12795e-05
128.4	1.13010e-05	1.12444e-05	1.12444e-05
128.5	1.12659e-05	1.12093e-05	1.12093e-05
128.6	1.12308e-05	1.11744e-05	1.11744e-05
128.7	1.11958e-05	1.11744e-05	1.11744e-05
128.8	1.11610e-05	1.11048e-05	1.11048e-05
128.9	1.11262e-05	1.10702e-05	1.10702e-05
129.0	1.10916e-05	1.10357e-05	1.10357e-05
129.1	1.10571e-05	1.10013e-05	1.10013e-05
129.2	1.10226e-05	1.10013e-05	1.10013e-05
129.3	1.09883e-05	1.09328e-05	1.09328e-05
129.4	1.09541e-05	1.08988e-05	1.08988e-05
129.5	1.09200e-05	1.08648e-05	1.08648e-05
129.6	1.08860e-05	1.08309e-05	1.08309e-05
129.7	1.08521e-05	1.08309e-05	1.08309e-05
129.8	1.08183e-05	1.07635e-05	1.07635e-05
129.9	1.07847e-05	1.07300e-05	1.07300e-05
130.0	1.07511e-05	1.06965e-05	1.06965e-05
130.1	1.07176e-05	1.06632e-05	1.06632e-05

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x	$A(x)$	P_{v1}	P_{v2}
130.2	1.06842e-05	1.06632e-05	1.06632e-05
130.3	1.06510e-05	1.05968e-05	1.05968e-05
130.4	1.06178e-05	1.05638e-05	1.05638e-05
130.5	1.05848e-05	1.05308e-05	1.05308e-05
130.6	1.05518e-05	1.04980e-05	1.04980e-05
130.7	1.05190e-05	1.04980e-05	1.04980e-05
130.8	1.04862e-05	1.04327e-05	1.04327e-05
130.9	1.04536e-05	1.04002e-05	1.04002e-05
131.0	1.04210e-05	1.03677e-05	1.03677e-05
131.1	1.03886e-05	1.03354e-05	1.03354e-05
131.2	1.03562e-05	1.03354e-05	1.03354e-05
131.3	1.03240e-05	1.02711e-05	1.02711e-05
131.4	1.02919e-05	1.02391e-05	1.02391e-05
131.5	1.02598e-05	1.02072e-05	1.02072e-05
131.6	1.02279e-05	1.01754e-05	1.01754e-05
131.7	1.01960e-05	1.01754e-05	1.01754e-05
131.8	1.01643e-05	1.01120e-05	1.01120e-05
131.9	1.01326e-05	1.00805e-05	1.00805e-05
132.0	1.01011e-05	1.00491e-05	1.00491e-05
132.1	1.00697e-05	1.00178e-05	1.00178e-05
132.2	1.00383e-05	1.00178e-05	1.00178e-05
132.3	1.00071e-05	9.95541e-06	9.95541e-06
132.4	9.97590e-06	9.92438e-06	9.92438e-06
132.5	9.94484e-06	9.89345e-06	9.89345e-06
132.6	9.91388e-06	9.86261e-06	9.86261e-06
132.7	9.88302e-06	9.86261e-06	9.86261e-06
132.8	9.85225e-06	9.80123e-06	9.80123e-06
132.9	9.82158e-06	9.77068e-06	9.77068e-06
133.0	9.79100e-06	9.74022e-06	9.74022e-06
133.1	9.76052e-06	9.70986e-06	9.70986e-06
133.2	9.73013e-06	9.70986e-06	9.70986e-06
133.3	9.69984e-06	9.64943e-06	9.64943e-06
133.4	9.66964e-06	9.61935e-06	9.61935e-06
133.5	9.63954e-06	9.58937e-06	9.58937e-06
133.6	9.60953e-06	9.55948e-06	9.55948e-06
133.7	9.57961e-06	9.55948e-06	9.55948e-06
133.8	9.54979e-06	9.49998e-06	9.49998e-06
133.9	9.52006e-06	9.47037e-06	9.47037e-06
134.0	9.49042e-06	9.44085e-06	9.44085e-06
134.1	9.46088e-06	9.41142e-06	9.41142e-06

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x	$A(x)$	P_{v1}	P_{v2}
134.2	9.43142e-06	9.41142e-06	9.41142e-06
134.3	9.40206e-06	9.35284e-06	9.35284e-06
134.4	9.37279e-06	9.32369e-06	9.32369e-06
134.5	9.34361e-06	9.29463e-06	9.29463e-06
134.6	9.31452e-06	9.26566e-06	9.26566e-06
134.7	9.28552e-06	9.26566e-06	9.26566e-06
134.8	9.25661e-06	9.20799e-06	9.20799e-06
134.9	9.22780e-06	9.17929e-06	9.17929e-06
135.0	9.19907e-06	9.15068e-06	9.15068e-06
135.1	9.17043e-06	9.12216e-06	9.12216e-06
135.2	9.14188e-06	9.12216e-06	9.12216e-06
135.3	9.11342e-06	9.06538e-06	9.06538e-06
135.4	9.08505e-06	9.03712e-06	9.03712e-06
135.5	9.05676e-06	9.00895e-06	9.00895e-06
135.6	9.02857e-06	8.98087e-06	8.98087e-06
135.7	9.00046e-06	8.98087e-06	8.98087e-06
135.8	8.97244e-06	8.92497e-06	8.92497e-06
135.9	8.94451e-06	8.89716e-06	8.89716e-06
136.0	8.91666e-06	8.86942e-06	8.86942e-06
136.1	8.88890e-06	8.84178e-06	8.84178e-06
136.2	8.86123e-06	8.84178e-06	8.84178e-06
136.3	8.83364e-06	8.78675e-06	8.78675e-06
136.4	8.80614e-06	8.75936e-06	8.75936e-06
136.5	8.77872e-06	8.73206e-06	8.73206e-06
136.6	8.75139e-06	8.70484e-06	8.70484e-06
136.7	8.72415e-06	8.70484e-06	8.70484e-06
136.8	8.69699e-06	8.65066e-06	8.65066e-06
136.9	8.66991e-06	8.62370e-06	8.62370e-06
137.0	8.64292e-06	8.59682e-06	8.59682e-06
137.1	8.61602e-06	8.57002e-06	8.57002e-06
137.2	8.58919e-06	8.57002e-06	8.57002e-06
137.3	8.56245e-06	8.51668e-06	8.51668e-06
137.4	8.53580e-06	8.49013e-06	8.49013e-06
137.5	8.50922e-06	8.46367e-06	8.46367e-06
137.6	8.48273e-06	8.43729e-06	8.43729e-06
137.7	8.45632e-06	8.43729e-06	8.43729e-06
137.8	8.43000e-06	8.38477e-06	8.38477e-06
137.9	8.40375e-06	8.35864e-06	8.35864e-06
138.0	8.37759e-06	8.33259e-06	8.33259e-06
138.1	8.35151e-06	8.30661e-06	8.30661e-06

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x	$A(x)$	P_{v1}	P_{v2}
138.2	8.32551e-06	8.30661e-06	8.30661e-06
138.3	8.29959e-06	8.25491e-06	8.25491e-06
138.4	8.27375e-06	8.22918e-06	8.22918e-06
138.5	8.24799e-06	8.20353e-06	8.20353e-06
138.6	8.22231e-06	8.17796e-06	8.17796e-06
138.7	8.19672e-06	8.17796e-06	8.17796e-06
138.8	8.17120e-06	8.12706e-06	8.12706e-06
138.9	8.14576e-06	8.10173e-06	8.10173e-06
139.0	8.12040e-06	8.07648e-06	8.07648e-06
139.1	8.09512e-06	8.05130e-06	8.05130e-06
139.2	8.06992e-06	8.05130e-06	8.05130e-06
139.3	8.04479e-06	8.00119e-06	8.00119e-06
139.4	8.01975e-06	7.97625e-06	7.97625e-06
139.5	7.99478e-06	7.95139e-06	7.95139e-06
139.6	7.96989e-06	7.92661e-06	7.92661e-06
139.7	7.94508e-06	7.92661e-06	7.92661e-06
139.8	7.92035e-06	7.87727e-06	7.87727e-06
139.9	7.89569e-06	7.85272e-06	7.85272e-06
140.0	7.87111e-06	7.82824e-06	7.82824e-06
140.1	7.84660e-06	7.80384e-06	7.80384e-06
140.2	7.82217e-06	7.80384e-06	7.80384e-06
140.3	7.79782e-06	7.75527e-06	7.75527e-06
140.4	7.77355e-06	7.73110e-06	7.73110e-06
140.5	7.74935e-06	7.70700e-06	7.70700e-06
140.6	7.72522e-06	7.68298e-06	7.68298e-06
140.7	7.70117e-06	7.68298e-06	7.68298e-06
140.8	7.67719e-06	7.63516e-06	7.63516e-06
140.9	7.65329e-06	7.61136e-06	7.61136e-06
141.0	7.62947e-06	7.58764e-06	7.58764e-06
141.1	7.60571e-06	7.56399e-06	7.56399e-06
141.2	7.58204e-06	7.56399e-06	7.56399e-06
141.3	7.55843e-06	7.51691e-06	7.51691e-06
141.4	7.53490e-06	7.49348e-06	7.49348e-06
141.5	7.51144e-06	7.47012e-06	7.47012e-06
141.6	7.48806e-06	7.44684e-06	7.44684e-06
141.7	7.46475e-06	7.44684e-06	7.44684e-06
141.8	7.44151e-06	7.40049e-06	7.40049e-06
141.9	7.41834e-06	7.37742e-06	7.37742e-06
142.0	7.39525e-06	7.35442e-06	7.35442e-06
142.1	7.37222e-06	7.33150e-06	7.33150e-06

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x	$A(x)$	P_{v1}	P_{v2}
142.2	7.34927e-06	7.33150e-06	7.33150e-06
142.3	7.32639e-06	7.28587e-06	7.28587e-06
142.4	7.30358e-06	7.26316e-06	7.26316e-06
142.5	7.28084e-06	7.24052e-06	7.24052e-06
142.6	7.25818e-06	7.21795e-06	7.21795e-06
142.7	7.23558e-06	7.21795e-06	7.21795e-06
142.8	7.21306e-06	7.17303e-06	7.17303e-06
142.9	7.19060e-06	7.15067e-06	7.15067e-06
143.0	7.16821e-06	7.12838e-06	7.12838e-06
143.1	7.14590e-06	7.10616e-06	7.10616e-06
143.2	7.12365e-06	7.10616e-06	7.10616e-06
143.3	7.10147e-06	7.06193e-06	7.06193e-06
143.4	7.07937e-06	7.03992e-06	7.03992e-06
143.5	7.05733e-06	7.01798e-06	7.01798e-06
143.6	7.03535e-06	6.99610e-06	6.99610e-06
143.7	7.01345e-06	6.99610e-06	6.99610e-06
143.8	6.99162e-06	6.95256e-06	6.95256e-06
143.9	6.96985e-06	6.93089e-06	6.93089e-06
144.0	6.94815e-06	6.90928e-06	6.90928e-06
144.1	6.92652e-06	6.88775e-06	6.88775e-06
144.2	6.90496e-06	6.88775e-06	6.88775e-06
144.3	6.88346e-06	6.84488e-06	6.84488e-06
144.4	6.86203e-06	6.82354e-06	6.82354e-06
144.5	6.84067e-06	6.80228e-06	6.80228e-06
144.6	6.81937e-06	6.78107e-06	6.78107e-06
144.7	6.79814e-06	6.78107e-06	6.78107e-06
144.8	6.77698e-06	6.73887e-06	6.73887e-06
144.9	6.75588e-06	6.71786e-06	6.71786e-06
145.0	6.73485e-06	6.69692e-06	6.69692e-06
145.1	6.71388e-06	6.67605e-06	6.67605e-06
145.2	6.69298e-06	6.67605e-06	6.67605e-06
145.3	6.67214e-06	6.63450e-06	6.63450e-06
145.4	6.65137e-06	6.61382e-06	6.61382e-06
145.5	6.63066e-06	6.59320e-06	6.59320e-06
145.6	6.61002e-06	6.57265e-06	6.57265e-06
145.7	6.58944e-06	6.57265e-06	6.57265e-06
145.8	6.56893e-06	6.53174e-06	6.53174e-06
145.9	6.54848e-06	6.51138e-06	6.51138e-06
146.0	6.52809e-06	6.49109e-06	6.49109e-06
146.1	6.50777e-06	6.47086e-06	6.47086e-06

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x	$A(x)$	P_{v1}	P_{v2}
146.2	6.48751e-06	6.47086e-06	6.47086e-06
146.3	6.46731e-06	6.43058e-06	6.43058e-06
146.4	6.44718e-06	6.41054e-06	6.41054e-06
146.5	6.42710e-06	6.39056e-06	6.39056e-06
146.6	6.40710e-06	6.37064e-06	6.37064e-06
146.7	6.38715e-06	6.37064e-06	6.37064e-06
146.8	6.36726e-06	6.33098e-06	6.33098e-06
146.9	6.34744e-06	6.31125e-06	6.31125e-06
147.0	6.32768e-06	6.29158e-06	6.29158e-06
147.1	6.30798e-06	6.27197e-06	6.27197e-06
147.2	6.28834e-06	6.27197e-06	6.27197e-06
147.3	6.26877e-06	6.23293e-06	6.23293e-06
147.4	6.24925e-06	6.21350e-06	6.21350e-06
147.5	6.22979e-06	6.19414e-06	6.19414e-06
147.6	6.21040e-06	6.17483e-06	6.17483e-06
147.7	6.19107e-06	6.17483e-06	6.17483e-06
147.8	6.17179e-06	6.13640e-06	6.13640e-06
147.9	6.15258e-06	6.11727e-06	6.11727e-06
148.0	6.13342e-06	6.09820e-06	6.09820e-06
148.1	6.11433e-06	6.07920e-06	6.07920e-06
148.2	6.09529e-06	6.07920e-06	6.07920e-06
148.3	6.07632e-06	6.04136e-06	6.04136e-06
148.4	6.05740e-06	6.02253e-06	6.02253e-06
148.5	6.03854e-06	6.00376e-06	6.00376e-06
148.6	6.01974e-06	5.98504e-06	5.98504e-06
148.7	6.00100e-06	5.98504e-06	5.98504e-06
148.8	5.98232e-06	5.94779e-06	5.94779e-06
148.9	5.96370e-06	5.92925e-06	5.92925e-06
149.0	5.94513e-06	5.91077e-06	5.91077e-06
149.1	5.92662e-06	5.89235e-06	5.89235e-06
149.2	5.90817e-06	5.89235e-06	5.89235e-06
149.3	5.88978e-06	5.85567e-06	5.85567e-06
149.4	5.87144e-06	5.83742e-06	5.83742e-06
149.5	5.85316e-06	5.81923e-06	5.81923e-06
149.6	5.83494e-06	5.80109e-06	5.80109e-06
149.7	5.81677e-06	5.80109e-06	5.80109e-06
149.8	5.79867e-06	5.76498e-06	5.76498e-06
149.9	5.78061e-06	5.74701e-06	5.74701e-06
150.0	5.76262e-06	5.72910e-06	5.72910e-06
150.1	5.74468e-06	5.71124e-06	5.71124e-06

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x	$A(x)$	P_{v1}	P_{v2}
150.2	5.72679e-06	5.71124e-06	5.71124e-06
150.3	5.70896e-06	5.67569e-06	5.67569e-06
150.4	5.69119e-06	5.65800e-06	5.65800e-06
150.5	5.67347e-06	5.64037e-06	5.64037e-06
150.6	5.65581e-06	5.62279e-06	5.62279e-06
150.7	5.63820e-06	5.62279e-06	5.62279e-06
150.8	5.62065e-06	5.58779e-06	5.58779e-06
150.9	5.60315e-06	5.57037e-06	5.57037e-06
151.0	5.58571e-06	5.55301e-06	5.55301e-06
151.1	5.56832e-06	5.53570e-06	5.53570e-06
151.2	5.55098e-06	5.53570e-06	5.53570e-06
151.3	5.53370e-06	5.50125e-06	5.50125e-06
151.4	5.51647e-06	5.48410e-06	5.48410e-06
151.5	5.49930e-06	5.46701e-06	5.46701e-06
151.6	5.48218e-06	5.44997e-06	5.44997e-06
151.7	5.46511e-06	5.44997e-06	5.44997e-06
151.8	5.44810e-06	5.41605e-06	5.41605e-06
151.9	5.43114e-06	5.39916e-06	5.39916e-06
152.0	5.41423e-06	5.38234e-06	5.38234e-06
152.1	5.39737e-06	5.36556e-06	5.36556e-06
152.2	5.38057e-06	5.36556e-06	5.36556e-06
152.3	5.36382e-06	5.33216e-06	5.33216e-06
152.4	5.34712e-06	5.31554e-06	5.31554e-06
152.5	5.33047e-06	5.29897e-06	5.29897e-06
152.6	5.31388e-06	5.28246e-06	5.28246e-06
152.7	5.29733e-06	5.28246e-06	5.28246e-06
152.8	5.28084e-06	5.24958e-06	5.24958e-06
152.9	5.26440e-06	5.23322e-06	5.23322e-06
153.0	5.24801e-06	5.21691e-06	5.21691e-06
153.1	5.23167e-06	5.20064e-06	5.20064e-06
153.2	5.21539e-06	5.20064e-06	5.20064e-06
153.3	5.19915e-06	5.16828e-06	5.16828e-06
153.4	5.18296e-06	5.15217e-06	5.15217e-06
153.5	5.16683e-06	5.13611e-06	5.13611e-06
153.6	5.15074e-06	5.13611e-06	5.13611e-06
153.7	5.13471e-06	5.13611e-06	5.13611e-06
153.8	5.11872e-06	5.08823e-06	5.08823e-06
153.9	5.10279e-06	5.07237e-06	5.07237e-06
154.0	5.08690e-06	5.05656e-06	5.05656e-06
154.1	5.07106e-06	5.05656e-06	5.05656e-06

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x	$A(x)$	P_{v1}	P_{v2}
154.2	5.05528e-06	5.05656e-06	5.05656e-06
154.3	5.03954e-06	5.00942e-06	5.00942e-06
154.4	5.02385e-06	4.99381e-06	4.99381e-06
154.5	5.00821e-06	4.97824e-06	4.97824e-06
154.6	4.99262e-06	4.97824e-06	4.97824e-06
154.7	4.97707e-06	4.97824e-06	4.97824e-06
154.8	4.96158e-06	4.93184e-06	4.93184e-06
154.9	4.94613e-06	4.91647e-06	4.91647e-06
155.0	4.93073e-06	4.90114e-06	4.90114e-06
155.1	4.91538e-06	4.90114e-06	4.90114e-06
155.2	4.90008e-06	4.90114e-06	4.90114e-06
155.3	4.88483e-06	4.85546e-06	4.85546e-06
155.4	4.86962e-06	4.84032e-06	4.84032e-06
155.5	4.85446e-06	4.82523e-06	4.82523e-06
155.6	4.83935e-06	4.82523e-06	4.82523e-06
155.7	4.82428e-06	4.82523e-06	4.82523e-06
155.8	4.80926e-06	4.78026e-06	4.78026e-06
155.9	4.79429e-06	4.76536e-06	4.76536e-06
156.0	4.77936e-06	4.75050e-06	4.75050e-06
156.1	4.76448e-06	4.75050e-06	4.75050e-06
156.2	4.74965e-06	4.75050e-06	4.75050e-06
156.3	4.73486e-06	4.70622e-06	4.70622e-06
156.4	4.72012e-06	4.69155e-06	4.69155e-06
156.5	4.70543e-06	4.67693e-06	4.67693e-06
156.6	4.69078e-06	4.67693e-06	4.67693e-06
156.7	4.67618e-06	4.67693e-06	4.67693e-06
156.8	4.66162e-06	4.63333e-06	4.63333e-06
156.9	4.64711e-06	4.61889e-06	4.61889e-06
157.0	4.63264e-06	4.60449e-06	4.60449e-06
157.1	4.61822e-06	4.60449e-06	4.60449e-06
157.2	4.60384e-06	4.60449e-06	4.60449e-06
157.3	4.58951e-06	4.56157e-06	4.56157e-06
157.4	4.57522e-06	4.54735e-06	4.54735e-06
157.5	4.56097e-06	4.53318e-06	4.53318e-06
157.6	4.54678e-06	4.53318e-06	4.53318e-06
157.7	4.53262e-06	4.53318e-06	4.53318e-06
157.8	4.51851e-06	4.49092e-06	4.49092e-06
157.9	4.50444e-06	4.47692e-06	4.47692e-06
158.0	4.49042e-06	4.46297e-06	4.46297e-06
158.1	4.47644e-06	4.46297e-06	4.46297e-06

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x	$A(x)$	P_{v1}	P_{v2}
158.2	4.46250e-06	4.46297e-06	4.46297e-06
158.3	4.44861e-06	4.42137e-06	4.42137e-06
158.4	4.43476e-06	4.40759e-06	4.40759e-06
158.5	4.42095e-06	4.39385e-06	4.39385e-06
158.6	4.40719e-06	4.39385e-06	4.39385e-06
158.7	4.39347e-06	4.39385e-06	4.39385e-06
158.8	4.37979e-06	4.35289e-06	4.35289e-06
158.9	4.36616e-06	4.33932e-06	4.33932e-06
159.0	4.35256e-06	4.32580e-06	4.32580e-06
159.1	4.33901e-06	4.32580e-06	4.32580e-06
159.2	4.32551e-06	4.32580e-06	4.32580e-06
159.3	4.31204e-06	4.28547e-06	4.28547e-06
159.4	4.29862e-06	4.27212e-06	4.27212e-06
159.5	4.28523e-06	4.25880e-06	4.25880e-06
159.6	4.27189e-06	4.25880e-06	4.25880e-06
159.7	4.25859e-06	4.25880e-06	4.25880e-06
159.8	4.24533e-06	4.21910e-06	4.21910e-06
159.9	4.23212e-06	4.20595e-06	4.20595e-06
160.0	4.21894e-06	4.19284e-06	4.19284e-06
160.1	4.20581e-06	4.19284e-06	4.19284e-06
160.2	4.19271e-06	4.19284e-06	4.19284e-06
160.3	4.17966e-06	4.15376e-06	4.15376e-06
160.4	4.16665e-06	4.14081e-06	4.14081e-06
160.5	4.15368e-06	4.12790e-06	4.12790e-06
160.6	4.14075e-06	4.12790e-06	4.12790e-06
160.7	4.12786e-06	4.12790e-06	4.12790e-06
160.8	4.11500e-06	4.08942e-06	4.08942e-06
160.9	4.10219e-06	4.07668e-06	4.07668e-06
161.0	4.08942e-06	4.06397e-06	4.06397e-06
161.1	4.07669e-06	4.06397e-06	4.06397e-06
161.2	4.06400e-06	4.06397e-06	4.06397e-06
161.3	4.05135e-06	4.02609e-06	4.02609e-06
161.4	4.03873e-06	4.01354e-06	4.01354e-06
161.5	4.02616e-06	4.00103e-06	4.00103e-06
161.6	4.01363e-06	4.00103e-06	4.00103e-06
161.7	4.00113e-06	4.00103e-06	4.00103e-06
161.8	3.98868e-06	3.96373e-06	3.96373e-06
161.9	3.97626e-06	3.95138e-06	3.95138e-06
162.0	3.96388e-06	3.93906e-06	3.93906e-06
162.1	3.95154e-06	3.93906e-06	3.93906e-06

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x	$A(x)$	P_{v1}	P_{v2}
162.2	3.93924e-06	3.93906e-06	3.93906e-06
162.3	3.92697e-06	3.90234e-06	3.90234e-06
162.4	3.91475e-06	3.89018e-06	3.89018e-06
162.5	3.90256e-06	3.87805e-06	3.87805e-06
162.6	3.89041e-06	3.87805e-06	3.87805e-06
162.7	3.87830e-06	3.87805e-06	3.87805e-06
162.8	3.86622e-06	3.84190e-06	3.84190e-06
162.9	3.85419e-06	3.82993e-06	3.82993e-06
163.0	3.84219e-06	3.81799e-06	3.81799e-06
163.1	3.83023e-06	3.81799e-06	3.81799e-06
163.2	3.81830e-06	3.81799e-06	3.81799e-06
163.3	3.80642e-06	3.78240e-06	3.78240e-06
163.4	3.79457e-06	3.77061e-06	3.77061e-06
163.5	3.78275e-06	3.75886e-06	3.75886e-06
163.6	3.77098e-06	3.75886e-06	3.75886e-06
163.7	3.75924e-06	3.75886e-06	3.75886e-06
163.8	3.74753e-06	3.72382e-06	3.72382e-06
163.9	3.73587e-06	3.71221e-06	3.71221e-06
164.0	3.72424e-06	3.70064e-06	3.70064e-06
164.1	3.71264e-06	3.70064e-06	3.70064e-06
164.2	3.70108e-06	3.70064e-06	3.70064e-06
164.3	3.68956e-06	3.66615e-06	3.66615e-06
164.4	3.67807e-06	3.65472e-06	3.65472e-06
164.5	3.66662e-06	3.64333e-06	3.64333e-06
164.6	3.65521e-06	3.64333e-06	3.64333e-06
164.7	3.64383e-06	3.64333e-06	3.64333e-06
164.8	3.63249e-06	3.60937e-06	3.60937e-06
164.9	3.62118e-06	3.59812e-06	3.59812e-06
165.0	3.60990e-06	3.58690e-06	3.58690e-06
165.1	3.59866e-06	3.58690e-06	3.58690e-06
165.2	3.58746e-06	3.58690e-06	3.58690e-06
165.3	3.57629e-06	3.55347e-06	3.55347e-06
165.4	3.56516e-06	3.54239e-06	3.54239e-06
165.5	3.55406e-06	3.53135e-06	3.53135e-06
165.6	3.54300e-06	3.53135e-06	3.53135e-06
165.7	3.53197e-06	3.53135e-06	3.53135e-06
165.8	3.52097e-06	3.49843e-06	3.49843e-06
165.9	3.51001e-06	3.48753e-06	3.48753e-06
166.0	3.49908e-06	3.47666e-06	3.47666e-06
166.1	3.48819e-06	3.47666e-06	3.47666e-06

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x	$A(x)$	P_{v1}	P_{v2}
166.2	3.47733e-06	3.47666e-06	3.47666e-06
166.3	3.46650e-06	3.44425e-06	3.44425e-06
166.4	3.45571e-06	3.43351e-06	3.43351e-06
166.5	3.44495e-06	3.42281e-06	3.42281e-06
166.6	3.43423e-06	3.42281e-06	3.42281e-06
166.7	3.42354e-06	3.42281e-06	3.42281e-06
166.8	3.41288e-06	3.39090e-06	3.39090e-06
166.9	3.40225e-06	3.38033e-06	3.38033e-06
167.0	3.39166e-06	3.36980e-06	3.36980e-06
167.1	3.38110e-06	3.36980e-06	3.36980e-06
167.2	3.37058e-06	3.36980e-06	3.36980e-06
167.3	3.36008e-06	3.33839e-06	3.33839e-06
167.4	3.34962e-06	3.32798e-06	3.32798e-06
167.5	3.33919e-06	3.31761e-06	3.31761e-06
167.6	3.32880e-06	3.31761e-06	3.31761e-06
167.7	3.31843e-06	3.31761e-06	3.31761e-06
167.8	3.30810e-06	3.28668e-06	3.28668e-06
167.9	3.29780e-06	3.27644e-06	3.27644e-06
168.0	3.28754e-06	3.26622e-06	3.26622e-06
168.1	3.27730e-06	3.26622e-06	3.26622e-06
168.2	3.26710e-06	3.26622e-06	3.26622e-06
168.3	3.25693e-06	3.23578e-06	3.23578e-06
168.4	3.24679e-06	3.22569e-06	3.22569e-06
168.5	3.23668e-06	3.21564e-06	3.21564e-06
168.6	3.22660e-06	3.21564e-06	3.21564e-06
168.7	3.21656e-06	3.21564e-06	3.21564e-06
168.8	3.20655e-06	3.18566e-06	3.18566e-06
168.9	3.19656e-06	3.17573e-06	3.17573e-06
169.0	3.18661e-06	3.16583e-06	3.16583e-06
169.1	3.17669e-06	3.16583e-06	3.16583e-06
169.2	3.16680e-06	3.16583e-06	3.16583e-06
169.3	3.15694e-06	3.13632e-06	3.13632e-06
169.4	3.14711e-06	3.12655e-06	3.12655e-06
169.5	3.13732e-06	3.11680e-06	3.11680e-06
169.6	3.12755e-06	3.11680e-06	3.11680e-06
169.7	3.11781e-06	3.11680e-06	3.11680e-06
169.8	3.10811e-06	3.08775e-06	3.08775e-06
169.9	3.09843e-06	3.07812e-06	3.07812e-06
170.0	3.08878e-06	3.06853e-06	3.06853e-06
170.1	3.07917e-06	3.06853e-06	3.06853e-06

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x	$A(x)$	P_{v1}	P_{v2}
170.2	3.06958e-06	3.06853e-06	3.06853e-06
170.3	3.06003e-06	3.03993e-06	3.03993e-06
170.4	3.05050e-06	3.03045e-06	3.03045e-06
170.5	3.04100e-06	3.02101e-06	3.02101e-06
170.6	3.03153e-06	3.02101e-06	3.02101e-06
170.7	3.02210e-06	3.02101e-06	3.02101e-06
170.8	3.01269e-06	2.99285e-06	2.99285e-06
170.9	3.00331e-06	2.98352e-06	2.98352e-06
171.0	2.99396e-06	2.97422e-06	2.97422e-06
171.1	2.98464e-06	2.97422e-06	2.97422e-06
171.2	2.97535e-06	2.97422e-06	2.97422e-06
171.3	2.96608e-06	2.94649e-06	2.94649e-06
171.4	2.95685e-06	2.93731e-06	2.93731e-06
171.5	2.94764e-06	2.92815e-06	2.92815e-06
171.6	2.93847e-06	2.92815e-06	2.92815e-06
171.7	2.92932e-06	2.92815e-06	2.92815e-06
171.8	2.92020e-06	2.90086e-06	2.90086e-06
171.9	2.91111e-06	2.89182e-06	2.89182e-06
172.0	2.90205e-06	2.88280e-06	2.88280e-06
172.1	2.89301e-06	2.88280e-06	2.88280e-06
172.2	2.88400e-06	2.88280e-06	2.88280e-06
172.3	2.87503e-06	2.85593e-06	2.85593e-06
172.4	2.86608e-06	2.84703e-06	2.84703e-06
172.5	2.85715e-06	2.83815e-06	2.83815e-06
172.6	2.84826e-06	2.83815e-06	2.83815e-06
172.7	2.83939e-06	2.83815e-06	2.83815e-06
172.8	2.83055e-06	2.81170e-06	2.81170e-06
172.9	2.82174e-06	2.80293e-06	2.80293e-06
173.0	2.81295e-06	2.79420e-06	2.79420e-06
173.1	2.80420e-06	2.79420e-06	2.79420e-06
173.2	2.79547e-06	2.79420e-06	2.79420e-06
173.3	2.78676e-06	2.76815e-06	2.76815e-06
173.4	2.77809e-06	2.75952e-06	2.75952e-06
173.5	2.76944e-06	2.75092e-06	2.75092e-06
173.6	2.76082e-06	2.75092e-06	2.75092e-06
173.7	2.75222e-06	2.75092e-06	2.75092e-06
173.8	2.74365e-06	2.72528e-06	2.72528e-06
173.9	2.73511e-06	2.71678e-06	2.71678e-06
174.0	2.72660e-06	2.70832e-06	2.70832e-06
174.1	2.71811e-06	2.70832e-06	2.70832e-06

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x	$A(x)$	P_{v1}	P_{v2}
174.2	2.70965e-06	2.70832e-06	2.70832e-06
174.3	2.70121e-06	2.68307e-06	2.68307e-06
174.4	2.69280e-06	2.67471e-06	2.67471e-06
174.5	2.68442e-06	2.66637e-06	2.66637e-06
174.6	2.67606e-06	2.66637e-06	2.66637e-06
174.7	2.66773e-06	2.66637e-06	2.66637e-06
174.8	2.65943e-06	2.64151e-06	2.64151e-06
174.9	2.65115e-06	2.63328e-06	2.63328e-06
175.0	2.64289e-06	2.62507e-06	2.62507e-06
175.1	2.63466e-06	2.62507e-06	2.62507e-06
175.2	2.62646e-06	2.62507e-06	2.62507e-06
175.3	2.61829e-06	2.60060e-06	2.60060e-06
175.4	2.61013e-06	2.59250e-06	2.59250e-06
175.5	2.60201e-06	2.58442e-06	2.58442e-06
175.6	2.59391e-06	2.58442e-06	2.58442e-06
175.7	2.58583e-06	2.58442e-06	2.58442e-06
175.8	2.57778e-06	2.56033e-06	2.56033e-06
175.9	2.56976e-06	2.55235e-06	2.55235e-06
176.0	2.56176e-06	2.54439e-06	2.54439e-06
176.1	2.55378e-06	2.54439e-06	2.54439e-06
176.2	2.54583e-06	2.54439e-06	2.54439e-06
176.3	2.53790e-06	2.52067e-06	2.52067e-06
176.4	2.53000e-06	2.51282e-06	2.51282e-06
176.5	2.52213e-06	2.50498e-06	2.50498e-06
176.6	2.51428e-06	2.50498e-06	2.50498e-06
176.7	2.50645e-06	2.50498e-06	2.50498e-06
176.8	2.49864e-06	2.48163e-06	2.48163e-06
176.9	2.49087e-06	2.47390e-06	2.47390e-06
177.0	2.48311e-06	2.46619e-06	2.46619e-06
177.1	2.47538e-06	2.46619e-06	2.46619e-06
177.2	2.46767e-06	2.46619e-06	2.46619e-06
177.3	2.45999e-06	2.44320e-06	2.44320e-06
177.4	2.45233e-06	2.43558e-06	2.43558e-06
177.5	2.44470e-06	2.42799e-06	2.42799e-06
177.6	2.43709e-06	2.42799e-06	2.42799e-06
177.7	2.42950e-06	2.42799e-06	2.42799e-06
177.8	2.42194e-06	2.40536e-06	2.40536e-06
177.9	2.41440e-06	2.39786e-06	2.39786e-06
178.0	2.40688e-06	2.39039e-06	2.39039e-06
178.1	2.39939e-06	2.39039e-06	2.39039e-06

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x	$A(x)$	P_{v1}	P_{v2}
178.2	2.39192e-06	2.39039e-06	2.39039e-06
178.3	2.38447e-06	2.36810e-06	2.36810e-06
178.4	2.37705e-06	2.36072e-06	2.36072e-06
178.5	2.36965e-06	2.35336e-06	2.35336e-06
178.6	2.36227e-06	2.35336e-06	2.35336e-06
178.7	2.35492e-06	2.35336e-06	2.35336e-06
178.8	2.34759e-06	2.33143e-06	2.33143e-06
178.9	2.34028e-06	2.32416e-06	2.32416e-06
179.0	2.33299e-06	2.31692e-06	2.31692e-06
179.1	2.32573e-06	2.31692e-06	2.31692e-06
179.2	2.31849e-06	2.31692e-06	2.31692e-06
179.3	2.31127e-06	2.29532e-06	2.29532e-06
179.4	2.30407e-06	2.28816e-06	2.28816e-06
179.5	2.29690e-06	2.28103e-06	2.28103e-06
179.6	2.28975e-06	2.28103e-06	2.28103e-06
179.7	2.28262e-06	2.28103e-06	2.28103e-06
179.8	2.27552e-06	2.25977e-06	2.25977e-06
179.9	2.26843e-06	2.25273e-06	2.25273e-06
180.0	2.26137e-06	2.24570e-06	2.24570e-06
180.1	2.25433e-06	2.24570e-06	2.24570e-06
180.2	2.24731e-06	2.24570e-06	2.24570e-06
180.3	2.24031e-06	2.22477e-06	2.22477e-06
180.4	2.23334e-06	2.21784e-06	2.21784e-06
180.5	2.22639e-06	2.21092e-06	2.21092e-06
180.6	2.21946e-06	2.21092e-06	2.21092e-06
180.7	2.21255e-06	2.21092e-06	2.21092e-06
180.8	2.20566e-06	2.19031e-06	2.19031e-06
180.9	2.19879e-06	2.18349e-06	2.18349e-06
181.0	2.19195e-06	2.17668e-06	2.17668e-06
181.1	2.18512e-06	2.17668e-06	2.17668e-06
181.2	2.17832e-06	2.17668e-06	2.17668e-06
181.3	2.17154e-06	2.15639e-06	2.15639e-06
181.4	2.16478e-06	2.14967e-06	2.14967e-06
181.5	2.15804e-06	2.14297e-06	2.14297e-06
181.6	2.15132e-06	2.14297e-06	2.14297e-06
181.7	2.14462e-06	2.14297e-06	2.14297e-06
181.8	2.13794e-06	2.12299e-06	2.12299e-06
181.9	2.13129e-06	2.11638e-06	2.11638e-06
182.0	2.12465e-06	2.10978e-06	2.10978e-06
182.1	2.11804e-06	2.10978e-06	2.10978e-06

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x	$A(x)$	P_{v1}	P_{v2}
182.2	2.11145e-06	2.10978e-06	2.10978e-06
182.3	2.10487e-06	2.09011e-06	2.09011e-06
182.4	2.09832e-06	2.08360e-06	2.08360e-06
182.5	2.09179e-06	2.07710e-06	2.07710e-06
182.6	2.08527e-06	2.07710e-06	2.07710e-06
182.7	2.07878e-06	2.07710e-06	2.07710e-06
182.8	2.07231e-06	2.05774e-06	2.05774e-06
182.9	2.06586e-06	2.05133e-06	2.05133e-06
183.0	2.05943e-06	2.04493e-06	2.04493e-06
183.1	2.05302e-06	2.04493e-06	2.04493e-06
183.2	2.04662e-06	2.04493e-06	2.04493e-06
183.3	2.04025e-06	2.02587e-06	2.02587e-06
183.4	2.03390e-06	2.01956e-06	2.01956e-06
183.5	2.02757e-06	2.01326e-06	2.01326e-06
183.6	2.02126e-06	2.01326e-06	2.01326e-06
183.7	2.01496e-06	2.01326e-06	2.01326e-06
183.8	2.00869e-06	1.99449e-06	1.99449e-06
183.9	2.00244e-06	1.98828e-06	1.98828e-06
184.0	1.99620e-06	1.98208e-06	1.98208e-06
184.1	1.98999e-06	1.98208e-06	1.98208e-06
184.2	1.98379e-06	1.98208e-06	1.98208e-06
184.3	1.97762e-06	1.96360e-06	1.96360e-06
184.4	1.97146e-06	1.95748e-06	1.95748e-06
184.5	1.96532e-06	1.95138e-06	1.95138e-06
184.6	1.95921e-06	1.95138e-06	1.95138e-06
184.7	1.95311e-06	1.95138e-06	1.95138e-06
184.8	1.94703e-06	1.93319e-06	1.93319e-06
184.9	1.94096e-06	1.92717e-06	1.92717e-06
185.0	1.93492e-06	1.92116e-06	1.92116e-06
185.1	1.92890e-06	1.92116e-06	1.92116e-06
185.2	1.92289e-06	1.92116e-06	1.92116e-06
185.3	1.91691e-06	1.90325e-06	1.90325e-06
185.4	1.91094e-06	1.89732e-06	1.89732e-06
185.5	1.90499e-06	1.89141e-06	1.89141e-06
185.6	1.89906e-06	1.89141e-06	1.89141e-06
185.7	1.89315e-06	1.89141e-06	1.89141e-06
185.8	1.88725e-06	1.87377e-06	1.87377e-06
185.9	1.88138e-06	1.86793e-06	1.86793e-06
186.0	1.87552e-06	1.86211e-06	1.86211e-06
186.1	1.86968e-06	1.86211e-06	1.86211e-06

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x	$A(x)$	P_{v1}	P_{v2}
186.2	1.86386e-06	1.86211e-06	1.86211e-06
186.3	1.85806e-06	1.84475e-06	1.84475e-06
186.4	1.85227e-06	1.83900e-06	1.83900e-06
186.5	1.84651e-06	1.83327e-06	1.83327e-06
186.6	1.84076e-06	1.83327e-06	1.83327e-06
186.7	1.83503e-06	1.83327e-06	1.83327e-06
186.8	1.82931e-06	1.81618e-06	1.81618e-06
186.9	1.82362e-06	1.81052e-06	1.81052e-06
187.0	1.81794e-06	1.80488e-06	1.80488e-06
187.1	1.81228e-06	1.80488e-06	1.80488e-06
187.2	1.80664e-06	1.80488e-06	1.80488e-06
187.3	1.80102e-06	1.78805e-06	1.78805e-06
187.4	1.79541e-06	1.78248e-06	1.78248e-06
187.5	1.78982e-06	1.77692e-06	1.77692e-06
187.6	1.78425e-06	1.77692e-06	1.77692e-06
187.7	1.77869e-06	1.77692e-06	1.77692e-06
187.8	1.77316e-06	1.76036e-06	1.76036e-06
187.9	1.76764e-06	1.75487e-06	1.75487e-06
188.0	1.76213e-06	1.74940e-06	1.74940e-06
188.1	1.75665e-06	1.74940e-06	1.74940e-06
188.2	1.75118e-06	1.74940e-06	1.74940e-06
188.3	1.74573e-06	1.73310e-06	1.73310e-06
188.4	1.74029e-06	1.72769e-06	1.72769e-06
188.5	1.73487e-06	1.72231e-06	1.72231e-06
188.6	1.72947e-06	1.72231e-06	1.72231e-06
188.7	1.72409e-06	1.72231e-06	1.72231e-06
188.8	1.71872e-06	1.70626e-06	1.70626e-06
188.9	1.71337e-06	1.70094e-06	1.70094e-06
189.0	1.70804e-06	1.69564e-06	1.69564e-06
189.1	1.70272e-06	1.69564e-06	1.69564e-06
189.2	1.69742e-06	1.69564e-06	1.69564e-06
189.3	1.69213e-06	1.67983e-06	1.67983e-06
189.4	1.68686e-06	1.67459e-06	1.67459e-06
189.5	1.68161e-06	1.66937e-06	1.66937e-06
189.6	1.67638e-06	1.66937e-06	1.66937e-06
189.7	1.67116e-06	1.66937e-06	1.66937e-06
189.8	1.66596e-06	1.65381e-06	1.65381e-06
189.9	1.66077e-06	1.64866e-06	1.64866e-06
190.0	1.65560e-06	1.64352e-06	1.64352e-06
190.1	1.65045e-06	1.64352e-06	1.64352e-06

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x	$A(x)$	P_{v1}	P_{v2}
190.2	1.64531e-06	1.64352e-06	1.64352e-06
190.3	1.64018e-06	1.62820e-06	1.62820e-06
190.4	1.63508e-06	1.62312e-06	1.62312e-06
190.5	1.62999e-06	1.61806e-06	1.61806e-06
190.6	1.62491e-06	1.61806e-06	1.61806e-06
190.7	1.61986e-06	1.61806e-06	1.61806e-06
190.8	1.61481e-06	1.60298e-06	1.60298e-06
190.9	1.60978e-06	1.59798e-06	1.59798e-06
191.0	1.60477e-06	1.59300e-06	1.59300e-06
191.1	1.59978e-06	1.59300e-06	1.59300e-06
191.2	1.59480e-06	1.59300e-06	1.59300e-06
191.3	1.58983e-06	1.57815e-06	1.57815e-06
191.4	1.58488e-06	1.57324e-06	1.57324e-06
191.5	1.57995e-06	1.56833e-06	1.56833e-06
191.6	1.57503e-06	1.56833e-06	1.56833e-06
191.7	1.57013e-06	1.56833e-06	1.56833e-06
191.8	1.56524e-06	1.55371e-06	1.55371e-06
191.9	1.56037e-06	1.54887e-06	1.54887e-06
192.0	1.55551e-06	1.54404e-06	1.54404e-06
192.1	1.55066e-06	1.54404e-06	1.54404e-06
192.2	1.54584e-06	1.54404e-06	1.54404e-06
192.3	1.54102e-06	1.52965e-06	1.52965e-06
192.4	1.53623e-06	1.52488e-06	1.52488e-06
192.5	1.53144e-06	1.52013e-06	1.52013e-06
192.6	1.52668e-06	1.52013e-06	1.52013e-06
192.7	1.52192e-06	1.52013e-06	1.52013e-06
192.8	1.51719e-06	1.50596e-06	1.50596e-06
192.9	1.51246e-06	1.50126e-06	1.50126e-06
193.0	1.50775e-06	1.49658e-06	1.49658e-06
193.1	1.50306e-06	1.49658e-06	1.49658e-06
193.2	1.49838e-06	1.49658e-06	1.49658e-06
193.3	1.49372e-06	1.48263e-06	1.48263e-06
193.4	1.48907e-06	1.47801e-06	1.47801e-06
193.5	1.48443e-06	1.47341e-06	1.47341e-06
193.6	1.47981e-06	1.47341e-06	1.47341e-06
193.7	1.47520e-06	1.47341e-06	1.47341e-06
193.8	1.47061e-06	1.45967e-06	1.45967e-06
193.9	1.46603e-06	1.45512e-06	1.45512e-06
194.0	1.46147e-06	1.45059e-06	1.45059e-06
194.1	1.45692e-06	1.45059e-06	1.45059e-06

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x	$A(x)$	P_{v1}	P_{v2}
194.2	1.45238e-06	1.45059e-06	1.45059e-06
194.3	1.44786e-06	1.43706e-06	1.43706e-06
194.4	1.44335e-06	1.43258e-06	1.43258e-06
194.5	1.43886e-06	1.42812e-06	1.42812e-06
194.6	1.43438e-06	1.42812e-06	1.42812e-06
194.7	1.42991e-06	1.42812e-06	1.42812e-06
194.8	1.42546e-06	1.41481e-06	1.41481e-06
194.9	1.42102e-06	1.41040e-06	1.41040e-06
195.0	1.41660e-06	1.40600e-06	1.40600e-06
195.1	1.41219e-06	1.40600e-06	1.40600e-06
195.2	1.40779e-06	1.40600e-06	1.40600e-06
195.3	1.40341e-06	1.39289e-06	1.39289e-06
195.4	1.39904e-06	1.38855e-06	1.38855e-06
195.5	1.39469e-06	1.38423e-06	1.38423e-06
195.6	1.39034e-06	1.38423e-06	1.38423e-06
195.7	1.38602e-06	1.38423e-06	1.38423e-06
195.8	1.38170e-06	1.37132e-06	1.37132e-06
195.9	1.37740e-06	1.36705e-06	1.36705e-06
196.0	1.37311e-06	1.36279e-06	1.36279e-06
196.1	1.36884e-06	1.36279e-06	1.36279e-06
196.2	1.36457e-06	1.36279e-06	1.36279e-06
196.3	1.36033e-06	1.35008e-06	1.35008e-06
196.4	1.35609e-06	1.34588e-06	1.34588e-06
196.5	1.35187e-06	1.34168e-06	1.34168e-06
196.6	1.34766e-06	1.34168e-06	1.34168e-06
196.7	1.34347e-06	1.34168e-06	1.34168e-06
196.8	1.33928e-06	1.32917e-06	1.32917e-06
196.9	1.33511e-06	1.32503e-06	1.32503e-06
197.0	1.33096e-06	1.32090e-06	1.32090e-06
197.1	1.32681e-06	1.32090e-06	1.32090e-06
197.2	1.32268e-06	1.32090e-06	1.32090e-06
197.3	1.31856e-06	1.30859e-06	1.30859e-06
197.4	1.31446e-06	1.30451e-06	1.30451e-06
197.5	1.31037e-06	1.30044e-06	1.30044e-06
197.6	1.30629e-06	1.30044e-06	1.30044e-06
197.7	1.30222e-06	1.30044e-06	1.30044e-06
197.8	1.29817e-06	1.28832e-06	1.28832e-06
197.9	1.29413e-06	1.28430e-06	1.28430e-06
198.0	1.29010e-06	1.28030e-06	1.28030e-06
198.1	1.28608e-06	1.28030e-06	1.28030e-06

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x	$A(x)$	P_{v1}	P_{v2}
198.2	1.28208e-06	1.28030e-06	1.28030e-06
198.3	1.27809e-06	1.26837e-06	1.26837e-06
198.4	1.27411e-06	1.26441e-06	1.26441e-06
198.5	1.27014e-06	1.26047e-06	1.26047e-06
198.6	1.26619e-06	1.26047e-06	1.26047e-06
198.7	1.26224e-06	1.26047e-06	1.26047e-06
198.8	1.25831e-06	1.24872e-06	1.24872e-06
198.9	1.25440e-06	1.24483e-06	1.24483e-06
199.0	1.25049e-06	1.24095e-06	1.24095e-06
199.1	1.24660e-06	1.24095e-06	1.24095e-06
199.2	1.24272e-06	1.24095e-06	1.24095e-06
199.3	1.23885e-06	1.22938e-06	1.22938e-06
199.4	1.23499e-06	1.22555e-06	1.22555e-06
199.5	1.23115e-06	1.22173e-06	1.22173e-06
199.6	1.22731e-06	1.22173e-06	1.22173e-06
199.7	1.22349e-06	1.22173e-06	1.22173e-06
199.8	1.21968e-06	1.21034e-06	1.21034e-06
199.9	1.21589e-06	1.20657e-06	1.20657e-06
200.0	1.21210e-06	1.20281e-06	1.20281e-06

Table B.7.2: Output for Problem 7.1-Pb210

x	$A(x)$	P_{v1}	P_{v2}
0.0	-1.52312e-16	0.00000e+00	0.00000e+00
0.1	7.02316e-01	6.80306e-01	6.80306e-01
0.2	9.08368e-01	8.94852e-01	8.94852e-01
0.3	9.67191e-01	8.94852e-01	8.94852e-01
0.4	9.82433e-01	9.79877e-01	9.79877e-01
0.5	9.84779e-01	9.83790e-01	9.83790e-01
0.6	9.83313e-01	9.83790e-01	9.83790e-01
0.7	9.80725e-01	9.83790e-01	9.83790e-01
0.8	9.77812e-01	9.77748e-01	9.77748e-01
0.9	9.74810e-01	9.74771e-01	9.74771e-01
1.0	9.71787e-01	9.71756e-01	9.71756e-01
1.1	9.68766e-01	9.68734e-01	9.68734e-01
1.2	9.65751e-01	9.68734e-01	9.68734e-01
1.3	9.62744e-01	9.62707e-01	9.62707e-01
1.4	9.59747e-01	9.62707e-01	9.62707e-01
1.5	9.56759e-01	9.56716e-01	9.56716e-01

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x	$A(x)$	P_{v1}	P_{v2}
1.6	9.53781e-01	9.53734e-01	9.53734e-01
1.7	9.50811e-01	9.53734e-01	9.53734e-01
1.8	9.47851e-01	9.47798e-01	9.47798e-01
1.9	9.44900e-01	9.47798e-01	9.47798e-01
2.0	9.41959e-01	9.41898e-01	9.41898e-01
2.1	9.39026e-01	9.38963e-01	9.38963e-01
2.2	9.36103e-01	9.36036e-01	9.36036e-01
2.3	9.33189e-01	9.36036e-01	9.36036e-01
2.4	9.30283e-01	9.36036e-01	9.36036e-01
2.5	9.27387e-01	9.27310e-01	9.27310e-01
2.6	9.24500e-01	9.24420e-01	9.24420e-01
2.7	9.21622e-01	9.21539e-01	9.21539e-01
2.8	9.18753e-01	9.21539e-01	9.21539e-01
2.9	9.15892e-01	9.21539e-01	9.21539e-01
3.0	9.13041e-01	9.12948e-01	9.12948e-01
3.1	9.10199e-01	9.10103e-01	9.10103e-01
3.2	9.07365e-01	9.07266e-01	9.07266e-01
3.3	9.04540e-01	9.07266e-01	9.07266e-01
3.4	9.01724e-01	9.07266e-01	9.07266e-01
3.5	8.98917e-01	8.98809e-01	8.98809e-01
3.6	8.96118e-01	8.96007e-01	8.96007e-01
3.7	8.93328e-01	8.93215e-01	8.93215e-01
3.8	8.90547e-01	8.93215e-01	8.93215e-01
3.9	8.87775e-01	8.93215e-01	8.93215e-01
4.0	8.85011e-01	8.84888e-01	8.84888e-01
4.1	8.82256e-01	8.84888e-01	8.84888e-01
4.2	8.79509e-01	8.79381e-01	8.79381e-01
4.3	8.76771e-01	8.76640e-01	8.76640e-01
4.4	8.74041e-01	8.73907e-01	8.73907e-01
4.5	8.71320e-01	8.71183e-01	8.71183e-01
4.6	8.68608e-01	8.71183e-01	8.71183e-01
4.7	8.65904e-01	8.65761e-01	8.65761e-01
4.8	8.63208e-01	8.65761e-01	8.65761e-01
4.9	8.60521e-01	8.60372e-01	8.60372e-01
5.0	8.57842e-01	8.57691e-01	8.57691e-01
5.1	8.55171e-01	8.57691e-01	8.57691e-01
5.2	8.52509e-01	8.52352e-01	8.52352e-01
5.3	8.49855e-01	8.52352e-01	8.52352e-01
5.4	8.47209e-01	8.47047e-01	8.47047e-01
5.5	8.44571e-01	8.44407e-01	8.44407e-01

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x	$A(x)$	P_{v1}	P_{v2}
5.6	8.41942e-01	8.44407e-01	8.44407e-01
5.7	8.39321e-01	8.39151e-01	8.39151e-01
5.8	8.36708e-01	8.39151e-01	8.39151e-01
5.9	8.34103e-01	8.33928e-01	8.33928e-01
6.0	8.31506e-01	8.31329e-01	8.31329e-01
6.1	8.28917e-01	8.31329e-01	8.31329e-01
6.2	8.26337e-01	8.26155e-01	8.26155e-01
6.3	8.23764e-01	8.26155e-01	8.26155e-01
6.4	8.21200e-01	8.21012e-01	8.21012e-01
6.5	8.18643e-01	8.18453e-01	8.18453e-01
6.6	8.16095e-01	8.18453e-01	8.18453e-01
6.7	8.13554e-01	8.13359e-01	8.13359e-01
6.8	8.11021e-01	8.13359e-01	8.13359e-01
6.9	8.08496e-01	8.08297e-01	8.08297e-01
7.0	8.05979e-01	8.05777e-01	8.05777e-01
7.1	8.03470e-01	8.05777e-01	8.05777e-01
7.2	8.00969e-01	8.00762e-01	8.00762e-01
7.3	7.98475e-01	8.00762e-01	8.00762e-01
7.4	7.95989e-01	7.95778e-01	7.95778e-01
7.5	7.93511e-01	7.93298e-01	7.93298e-01
7.6	7.91041e-01	7.93298e-01	7.93298e-01
7.7	7.88578e-01	7.88360e-01	7.88360e-01
7.8	7.86123e-01	7.88360e-01	7.88360e-01
7.9	7.83676e-01	7.83453e-01	7.83453e-01
8.0	7.81236e-01	7.81011e-01	7.81011e-01
8.1	7.78804e-01	7.78577e-01	7.78577e-01
8.2	7.76379e-01	7.78577e-01	7.78577e-01
8.3	7.73962e-01	7.73731e-01	7.73731e-01
8.4	7.71553e-01	7.71319e-01	7.71319e-01
8.5	7.69151e-01	7.68915e-01	7.68915e-01
8.6	7.66756e-01	7.66518e-01	7.66518e-01
8.7	7.64369e-01	7.66518e-01	7.66518e-01
8.8	7.61989e-01	7.61748e-01	7.61748e-01
8.9	7.59617e-01	7.59373e-01	7.59373e-01
9.0	7.57252e-01	7.57006e-01	7.57006e-01
9.1	7.54895e-01	7.54647e-01	7.54647e-01
9.2	7.52545e-01	7.54647e-01	7.54647e-01
9.3	7.50202e-01	7.49950e-01	7.49950e-01
9.4	7.47866e-01	7.47612e-01	7.47612e-01
9.5	7.45538e-01	7.45282e-01	7.45282e-01

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x	$A(x)$	P_{v1}	P_{v2}
9.6	7.43217e-01	7.45282e-01	7.45282e-01
9.7	7.40903e-01	7.45282e-01	7.45282e-01
9.8	7.38597e-01	7.38335e-01	7.38335e-01
9.9	7.36297e-01	7.36033e-01	7.36033e-01
10.0	7.34005e-01	7.33739e-01	7.33739e-01
10.1	7.31720e-01	7.33739e-01	7.33739e-01
10.2	7.29442e-01	7.33739e-01	7.33739e-01
10.3	7.27171e-01	7.26899e-01	7.26899e-01
10.4	7.24907e-01	7.24634e-01	7.24634e-01
10.5	7.22650e-01	7.22375e-01	7.22375e-01
10.6	7.20401e-01	7.22375e-01	7.22375e-01
10.7	7.18158e-01	7.22375e-01	7.22375e-01
10.8	7.15922e-01	7.15641e-01	7.15641e-01
10.9	7.13693e-01	7.13411e-01	7.13411e-01
11.0	7.11471e-01	7.11187e-01	7.11187e-01
11.1	7.09256e-01	7.11187e-01	7.11187e-01
11.2	7.07048e-01	7.11187e-01	7.11187e-01
11.3	7.04847e-01	7.04558e-01	7.04558e-01
11.4	7.02653e-01	7.02362e-01	7.02362e-01
11.5	7.00465e-01	7.00172e-01	7.00172e-01
11.6	6.98285e-01	7.00172e-01	7.00172e-01
11.7	6.96111e-01	7.00172e-01	7.00172e-01
11.8	6.93944e-01	6.93646e-01	6.93646e-01
11.9	6.91783e-01	6.91484e-01	6.91484e-01
12.0	6.89629e-01	6.89328e-01	6.89328e-01
12.1	6.87482e-01	6.89328e-01	6.89328e-01
12.2	6.85342e-01	6.89328e-01	6.89328e-01
12.3	6.83209e-01	6.82903e-01	6.82903e-01
12.4	6.81082e-01	6.80774e-01	6.80774e-01
12.5	6.78961e-01	6.78652e-01	6.78652e-01
12.6	6.76848e-01	6.78652e-01	6.78652e-01
12.7	6.74740e-01	6.78652e-01	6.78652e-01
12.8	6.72640e-01	6.72326e-01	6.72326e-01
12.9	6.70546e-01	6.70230e-01	6.70230e-01
13.0	6.68458e-01	6.68141e-01	6.68141e-01
13.1	6.66377e-01	6.68141e-01	6.68141e-01
13.2	6.64302e-01	6.68141e-01	6.68141e-01
13.3	6.62234e-01	6.61913e-01	6.61913e-01
13.4	6.60173e-01	6.59850e-01	6.59850e-01
13.5	6.58117e-01	6.57793e-01	6.57793e-01

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x	$A(x)$	P_{v1}	P_{v2}
13.6	6.56069e-01	6.57793e-01	6.57793e-01
13.7	6.54026e-01	6.57793e-01	6.57793e-01
13.8	6.51990e-01	6.51662e-01	6.51662e-01
13.9	6.49960e-01	6.49630e-01	6.49630e-01
14.0	6.47937e-01	6.47605e-01	6.47605e-01
14.1	6.45920e-01	6.47605e-01	6.47605e-01
14.2	6.43909e-01	6.47605e-01	6.47605e-01
14.3	6.41904e-01	6.41569e-01	6.41569e-01
14.4	6.39906e-01	6.39569e-01	6.39569e-01
14.5	6.37913e-01	6.37576e-01	6.37576e-01
14.6	6.35928e-01	6.37576e-01	6.37576e-01
14.7	6.33948e-01	6.37576e-01	6.37576e-01
14.8	6.31974e-01	6.31632e-01	6.31632e-01
14.9	6.30007e-01	6.29663e-01	6.29663e-01
15.0	6.28045e-01	6.27701e-01	6.27701e-01
15.1	6.26090e-01	6.27701e-01	6.27701e-01
15.2	6.24141e-01	6.27701e-01	6.27701e-01
15.3	6.22198e-01	6.21850e-01	6.21850e-01
15.4	6.20261e-01	6.19911e-01	6.19911e-01
15.5	6.18330e-01	6.17979e-01	6.17979e-01
15.6	6.16405e-01	6.17979e-01	6.17979e-01
15.7	6.14486e-01	6.17979e-01	6.17979e-01
15.8	6.12573e-01	6.12219e-01	6.12219e-01
15.9	6.10666e-01	6.10310e-01	6.10310e-01
16.0	6.08765e-01	6.08408e-01	6.08408e-01
16.1	6.06869e-01	6.06512e-01	6.06512e-01
16.2	6.04980e-01	6.04621e-01	6.04621e-01
16.3	6.03097e-01	6.02737e-01	6.02737e-01
16.4	6.01219e-01	6.02737e-01	6.02737e-01
16.5	5.99347e-01	5.98985e-01	5.98985e-01
16.6	5.97481e-01	5.97118e-01	5.97118e-01
16.7	5.95621e-01	5.95257e-01	5.95257e-01
16.8	5.93767e-01	5.93402e-01	5.93402e-01
16.9	5.91918e-01	5.93402e-01	5.93402e-01
17.0	5.90076e-01	5.89708e-01	5.89708e-01
17.1	5.88239e-01	5.87870e-01	5.87870e-01
17.2	5.86407e-01	5.86038e-01	5.86038e-01
17.3	5.84582e-01	5.84211e-01	5.84211e-01
17.4	5.82762e-01	5.84211e-01	5.84211e-01
17.5	5.80948e-01	5.80575e-01	5.80575e-01

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x	$A(x)$	P_{v1}	P_{v2}
17.6	5.79139e-01	5.78765e-01	5.78765e-01
17.7	5.77336e-01	5.76961e-01	5.76961e-01
17.8	5.75539e-01	5.75163e-01	5.75163e-01
17.9	5.73747e-01	5.75163e-01	5.75163e-01
18.0	5.71961e-01	5.71583e-01	5.71583e-01
18.1	5.70180e-01	5.69801e-01	5.69801e-01
18.2	5.68405e-01	5.68025e-01	5.68025e-01
18.3	5.66635e-01	5.66255e-01	5.66255e-01
18.4	5.64871e-01	5.66255e-01	5.66255e-01
18.5	5.63113e-01	5.62731e-01	5.62731e-01
18.6	5.61360e-01	5.60977e-01	5.60977e-01
18.7	5.59612e-01	5.59228e-01	5.59228e-01
18.8	5.57870e-01	5.57485e-01	5.57485e-01
18.9	5.56133e-01	5.57485e-01	5.57485e-01
19.0	5.54402e-01	5.54015e-01	5.54015e-01
19.1	5.52676e-01	5.52288e-01	5.52288e-01
19.2	5.50955e-01	5.52288e-01	5.52288e-01
19.3	5.49240e-01	5.48851e-01	5.48851e-01
19.4	5.47530e-01	5.48851e-01	5.48851e-01
19.5	5.45825e-01	5.45435e-01	5.45435e-01
19.6	5.44126e-01	5.43734e-01	5.43734e-01
19.7	5.42432e-01	5.43734e-01	5.43734e-01
19.8	5.40743e-01	5.40350e-01	5.40350e-01
19.9	5.39060e-01	5.40350e-01	5.40350e-01
20.0	5.37382e-01	5.36987e-01	5.36987e-01
20.1	5.35709e-01	5.35313e-01	5.35313e-01
20.2	5.34041e-01	5.35313e-01	5.35313e-01
20.3	5.32378e-01	5.31981e-01	5.31981e-01
20.4	5.30721e-01	5.31981e-01	5.31981e-01
20.5	5.29069e-01	5.28670e-01	5.28670e-01
20.6	5.27422e-01	5.27022e-01	5.27022e-01
20.7	5.25780e-01	5.27022e-01	5.27022e-01
20.8	5.24143e-01	5.23742e-01	5.23742e-01
20.9	5.22511e-01	5.23742e-01	5.23742e-01
21.0	5.20884e-01	5.20482e-01	5.20482e-01
21.1	5.19263e-01	5.18860e-01	5.18860e-01
21.2	5.17646e-01	5.18860e-01	5.18860e-01
21.3	5.16035e-01	5.15631e-01	5.15631e-01
21.4	5.14428e-01	5.15631e-01	5.15631e-01
21.5	5.12827e-01	5.12421e-01	5.12421e-01

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x	$A(x)$	P_{v1}	P_{v2}
21.6	5.11230e-01	5.10824e-01	5.10824e-01
21.7	5.09638e-01	5.10824e-01	5.10824e-01
21.8	5.08052e-01	5.07645e-01	5.07645e-01
21.9	5.06470e-01	5.07645e-01	5.07645e-01
22.0	5.04893e-01	5.04485e-01	5.04485e-01
22.1	5.03322e-01	5.02912e-01	5.02912e-01
22.2	5.01755e-01	5.02912e-01	5.02912e-01
22.3	5.00193e-01	4.99782e-01	4.99782e-01
22.4	4.98635e-01	4.99782e-01	4.99782e-01
22.5	4.97083e-01	4.96672e-01	4.96672e-01
22.6	4.95535e-01	4.95123e-01	4.95123e-01
22.7	4.93993e-01	4.95123e-01	4.95123e-01
22.8	4.92455e-01	4.92042e-01	4.92042e-01
22.9	4.90922e-01	4.92042e-01	4.92042e-01
23.0	4.89393e-01	4.88979e-01	4.88979e-01
23.1	4.87870e-01	4.87455e-01	4.87455e-01
23.2	4.86351e-01	4.87455e-01	4.87455e-01
23.3	4.84837e-01	4.84421e-01	4.84421e-01
23.4	4.83327e-01	4.84421e-01	4.84421e-01
23.5	4.81823e-01	4.81406e-01	4.81406e-01
23.6	4.80323e-01	4.79905e-01	4.79905e-01
23.7	4.78827e-01	4.79905e-01	4.79905e-01
23.8	4.77337e-01	4.76918e-01	4.76918e-01
23.9	4.75851e-01	4.76918e-01	4.76918e-01
24.0	4.74369e-01	4.73950e-01	4.73950e-01
24.1	4.72892e-01	4.72473e-01	4.72473e-01
24.2	4.71420e-01	4.72473e-01	4.72473e-01
24.3	4.69953e-01	4.69532e-01	4.69532e-01
24.4	4.68489e-01	4.69532e-01	4.69532e-01
24.5	4.67031e-01	4.66610e-01	4.66610e-01
24.6	4.65577e-01	4.65155e-01	4.65155e-01
24.7	4.64128e-01	4.65155e-01	4.65155e-01
24.8	4.62683e-01	4.62260e-01	4.62260e-01
24.9	4.61242e-01	4.62260e-01	4.62260e-01
25.0	4.59806e-01	4.59383e-01	4.59383e-01
25.1	4.58375e-01	4.57951e-01	4.57951e-01
25.2	4.56948e-01	4.57951e-01	4.57951e-01
25.3	4.55525e-01	4.55101e-01	4.55101e-01
25.4	4.54107e-01	4.55101e-01	4.55101e-01
25.5	4.52693e-01	4.52268e-01	4.52268e-01

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x	$A(x)$	P_{v1}	P_{v2}
25.6	4.51284e-01	4.50858e-01	4.50858e-01
25.7	4.49879e-01	4.50858e-01	4.50858e-01
25.8	4.48478e-01	4.48052e-01	4.48052e-01
25.9	4.47082e-01	4.48052e-01	4.48052e-01
26.0	4.45690e-01	4.45263e-01	4.45263e-01
26.1	4.44303e-01	4.43876e-01	4.43876e-01
26.2	4.42920e-01	4.43876e-01	4.43876e-01
26.3	4.41541e-01	4.41113e-01	4.41113e-01
26.4	4.40166e-01	4.41113e-01	4.41113e-01
26.5	4.38796e-01	4.38367e-01	4.38367e-01
26.6	4.37430e-01	4.37001e-01	4.37001e-01
26.7	4.36068e-01	4.37001e-01	4.37001e-01
26.8	4.34710e-01	4.34281e-01	4.34281e-01
26.9	4.33357e-01	4.34281e-01	4.34281e-01
27.0	4.32008e-01	4.31578e-01	4.31578e-01
27.1	4.30663e-01	4.30233e-01	4.30233e-01
27.2	4.29322e-01	4.30233e-01	4.30233e-01
27.3	4.27986e-01	4.27555e-01	4.27555e-01
27.4	4.26653e-01	4.27555e-01	4.27555e-01
27.5	4.25325e-01	4.24894e-01	4.24894e-01
27.6	4.24001e-01	4.23569e-01	4.23569e-01
27.7	4.22681e-01	4.23569e-01	4.23569e-01
27.8	4.21365e-01	4.20933e-01	4.20933e-01
27.9	4.20053e-01	4.20933e-01	4.20933e-01
28.0	4.18745e-01	4.18313e-01	4.18313e-01
28.1	4.17442e-01	4.17009e-01	4.17009e-01
28.2	4.16142e-01	4.17009e-01	4.17009e-01
28.3	4.14847e-01	4.14414e-01	4.14414e-01
28.4	4.13555e-01	4.14414e-01	4.14414e-01
28.5	4.12268e-01	4.11834e-01	4.11834e-01
28.6	4.10984e-01	4.10551e-01	4.10551e-01
28.7	4.09705e-01	4.10551e-01	4.10551e-01
28.8	4.08429e-01	4.07995e-01	4.07995e-01
28.9	4.07158e-01	4.07995e-01	4.07995e-01
29.0	4.05890e-01	4.05456e-01	4.05456e-01
29.1	4.04626e-01	4.04192e-01	4.04192e-01
29.2	4.03367e-01	4.04192e-01	4.04192e-01
29.3	4.02111e-01	4.01676e-01	4.01676e-01
29.4	4.00859e-01	4.01676e-01	4.01676e-01
29.5	3.99611e-01	3.99176e-01	3.99176e-01

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x	$A(x)$	P_{v1}	P_{v2}
29.6	3.98367e-01	3.97932e-01	3.97932e-01
29.7	3.97127e-01	3.97932e-01	3.97932e-01
29.8	3.95891e-01	3.95455e-01	3.95455e-01
29.9	3.94658e-01	3.95455e-01	3.95455e-01
30.0	3.93429e-01	3.92994e-01	3.92994e-01
30.1	3.92205e-01	3.91769e-01	3.91769e-01
30.2	3.90984e-01	3.91769e-01	3.91769e-01
30.3	3.89766e-01	3.89331e-01	3.89331e-01
30.4	3.88553e-01	3.89331e-01	3.89331e-01
30.5	3.87343e-01	3.86907e-01	3.86907e-01
30.6	3.86137e-01	3.85701e-01	3.85701e-01
30.7	3.84935e-01	3.85701e-01	3.85701e-01
30.8	3.83737e-01	3.83301e-01	3.83301e-01
30.9	3.82542e-01	3.83301e-01	3.83301e-01
31.0	3.81351e-01	3.80915e-01	3.80915e-01
31.1	3.80164e-01	3.79728e-01	3.79728e-01
31.2	3.78981e-01	3.79728e-01	3.79728e-01
31.3	3.77801e-01	3.77364e-01	3.77364e-01
31.4	3.76624e-01	3.77364e-01	3.77364e-01
31.5	3.75452e-01	3.75015e-01	3.75015e-01
31.6	3.74283e-01	3.73847e-01	3.73847e-01
31.7	3.73118e-01	3.73847e-01	3.73847e-01
31.8	3.71956e-01	3.71520e-01	3.71520e-01
31.9	3.70798e-01	3.71520e-01	3.71520e-01
32.0	3.69644e-01	3.69207e-01	3.69207e-01
32.1	3.68493e-01	3.68056e-01	3.68056e-01
32.2	3.67346e-01	3.66909e-01	3.66909e-01
32.3	3.66202e-01	3.66909e-01	3.66909e-01
32.4	3.65062e-01	3.64626e-01	3.64626e-01
32.5	3.63926e-01	3.63489e-01	3.63489e-01
32.6	3.62793e-01	3.62356e-01	3.62356e-01
32.7	3.61663e-01	3.61227e-01	3.61227e-01
32.8	3.60537e-01	3.61227e-01	3.61227e-01
32.9	3.59415e-01	3.58978e-01	3.58978e-01
33.0	3.58296e-01	3.57859e-01	3.57859e-01
33.1	3.57181e-01	3.56744e-01	3.56744e-01
33.2	3.56069e-01	3.55632e-01	3.55632e-01
33.3	3.54960e-01	3.55632e-01	3.55632e-01
33.4	3.53855e-01	3.53419e-01	3.53419e-01
33.5	3.52753e-01	3.52317e-01	3.52317e-01

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x	$A(x)$	P_{v1}	P_{v2}
33.6	3.51655e-01	3.51219e-01	3.51219e-01
33.7	3.50560e-01	3.50124e-01	3.50124e-01
33.8	3.49469e-01	3.50124e-01	3.50124e-01
33.9	3.48381e-01	3.47945e-01	3.47945e-01
34.0	3.47296e-01	3.46860e-01	3.46860e-01
34.1	3.46215e-01	3.45779e-01	3.45779e-01
34.2	3.45137e-01	3.44701e-01	3.44701e-01
34.3	3.44063e-01	3.44701e-01	3.44701e-01
34.4	3.42992e-01	3.42556e-01	3.42556e-01
34.5	3.41924e-01	3.41488e-01	3.41488e-01
34.6	3.40860e-01	3.40424e-01	3.40424e-01
34.7	3.39798e-01	3.39363e-01	3.39363e-01
34.8	3.38740e-01	3.39363e-01	3.39363e-01
34.9	3.37686e-01	3.37251e-01	3.37251e-01
35.0	3.36635e-01	3.36199e-01	3.36199e-01
35.1	3.35587e-01	3.35151e-01	3.35151e-01
35.2	3.34542e-01	3.34107e-01	3.34107e-01
35.3	3.33500e-01	3.34107e-01	3.34107e-01
35.4	3.32462e-01	3.32027e-01	3.32027e-01
35.5	3.31427e-01	3.30992e-01	3.30992e-01
35.6	3.30395e-01	3.29961e-01	3.29961e-01
35.7	3.29367e-01	3.28932e-01	3.28932e-01
35.8	3.28341e-01	3.28932e-01	3.28932e-01
35.9	3.27319e-01	3.26885e-01	3.26885e-01
36.0	3.26300e-01	3.25866e-01	3.25866e-01
36.1	3.25284e-01	3.24850e-01	3.24850e-01
36.2	3.24272e-01	3.23838e-01	3.23838e-01
36.3	3.23262e-01	3.23838e-01	3.23838e-01
36.4	3.22256e-01	3.21822e-01	3.21822e-01
36.5	3.21252e-01	3.20819e-01	3.20819e-01
36.6	3.20252e-01	3.19819e-01	3.19819e-01
36.7	3.19255e-01	3.18822e-01	3.18822e-01
36.8	3.18261e-01	3.18822e-01	3.18822e-01
36.9	3.17271e-01	3.16838e-01	3.16838e-01
37.0	3.16283e-01	3.15850e-01	3.15850e-01
37.1	3.15298e-01	3.14866e-01	3.14866e-01
37.2	3.14317e-01	3.13884e-01	3.13884e-01
37.3	3.13338e-01	3.13884e-01	3.13884e-01
37.4	3.12363e-01	3.11931e-01	3.11931e-01
37.5	3.11390e-01	3.10958e-01	3.10958e-01

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x	$A(x)$	P_{v1}	P_{v2}
37.6	3.10421e-01	3.09989e-01	3.09989e-01
37.7	3.09454e-01	3.09023e-01	3.09023e-01
37.8	3.08491e-01	3.09023e-01	3.09023e-01
37.9	3.07530e-01	3.07100e-01	3.07100e-01
38.0	3.06573e-01	3.06142e-01	3.06142e-01
38.1	3.05619e-01	3.05188e-01	3.05188e-01
38.2	3.04667e-01	3.04237e-01	3.04237e-01
38.3	3.03719e-01	3.04237e-01	3.04237e-01
38.4	3.02773e-01	3.04237e-01	3.04237e-01
38.5	3.01831e-01	3.01401e-01	3.01401e-01
38.6	3.00891e-01	3.00461e-01	3.00461e-01
38.7	2.99954e-01	2.99525e-01	2.99525e-01
38.8	2.99020e-01	2.99525e-01	2.99525e-01
38.9	2.98089e-01	2.99525e-01	2.99525e-01
39.0	2.97161e-01	2.96733e-01	2.96733e-01
39.1	2.96236e-01	2.95808e-01	2.95808e-01
39.2	2.95314e-01	2.94886e-01	2.94886e-01
39.3	2.94395e-01	2.94886e-01	2.94886e-01
39.4	2.93478e-01	2.94886e-01	2.94886e-01
39.5	2.92564e-01	2.92137e-01	2.92137e-01
39.6	2.91654e-01	2.91227e-01	2.91227e-01
39.7	2.90746e-01	2.90319e-01	2.90319e-01
39.8	2.89840e-01	2.90319e-01	2.90319e-01
39.9	2.88938e-01	2.90319e-01	2.90319e-01
40.0	2.88039e-01	2.87613e-01	2.87613e-01
40.1	2.87142e-01	2.86716e-01	2.86716e-01
40.2	2.86248e-01	2.85822e-01	2.85822e-01
40.3	2.85357e-01	2.85822e-01	2.85822e-01
40.4	2.84468e-01	2.85822e-01	2.85822e-01
40.5	2.83583e-01	2.83158e-01	2.83158e-01
40.6	2.82700e-01	2.82276e-01	2.82276e-01
40.7	2.81820e-01	2.81396e-01	2.81396e-01
40.8	2.80942e-01	2.81396e-01	2.81396e-01
40.9	2.80068e-01	2.81396e-01	2.81396e-01
41.0	2.79196e-01	2.78773e-01	2.78773e-01
41.1	2.78327e-01	2.77904e-01	2.77904e-01
41.2	2.77460e-01	2.77037e-01	2.77037e-01
41.3	2.76596e-01	2.77037e-01	2.77037e-01
41.4	2.75735e-01	2.77037e-01	2.77037e-01
41.5	2.74877e-01	2.74455e-01	2.74455e-01

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x	$A(x)$	P_{v1}	P_{v2}
41.6	2.74021e-01	2.73600e-01	2.73600e-01
41.7	2.73168e-01	2.72747e-01	2.72747e-01
41.8	2.72318e-01	2.72747e-01	2.72747e-01
41.9	2.71470e-01	2.72747e-01	2.72747e-01
42.0	2.70625e-01	2.70204e-01	2.70204e-01
42.1	2.69782e-01	2.69362e-01	2.69362e-01
42.2	2.68942e-01	2.68523e-01	2.68523e-01
42.3	2.68105e-01	2.68523e-01	2.68523e-01
42.4	2.67270e-01	2.68523e-01	2.68523e-01
42.5	2.66438e-01	2.66019e-01	2.66019e-01
42.6	2.65609e-01	2.65190e-01	2.65190e-01
42.7	2.64782e-01	2.64364e-01	2.64364e-01
42.8	2.63958e-01	2.64364e-01	2.64364e-01
42.9	2.63136e-01	2.64364e-01	2.64364e-01
43.0	2.62317e-01	2.61899e-01	2.61899e-01
43.1	2.61500e-01	2.61083e-01	2.61083e-01
43.2	2.60686e-01	2.60269e-01	2.60269e-01
43.3	2.59874e-01	2.60269e-01	2.60269e-01
43.4	2.59065e-01	2.60269e-01	2.60269e-01
43.5	2.58259e-01	2.57843e-01	2.57843e-01
43.6	2.57455e-01	2.57039e-01	2.57039e-01
43.7	2.56653e-01	2.56238e-01	2.56238e-01
43.8	2.55854e-01	2.56238e-01	2.56238e-01
43.9	2.55058e-01	2.56238e-01	2.56238e-01
44.0	2.54264e-01	2.53850e-01	2.53850e-01
44.1	2.53472e-01	2.53059e-01	2.53059e-01
44.2	2.52683e-01	2.52270e-01	2.52270e-01
44.3	2.51896e-01	2.52270e-01	2.52270e-01
44.4	2.51112e-01	2.52270e-01	2.52270e-01
44.5	2.50330e-01	2.49918e-01	2.49918e-01
44.6	2.49551e-01	2.49139e-01	2.49139e-01
44.7	2.48774e-01	2.48363e-01	2.48363e-01
44.8	2.48000e-01	2.48363e-01	2.48363e-01
44.9	2.47228e-01	2.48363e-01	2.48363e-01
45.0	2.46458e-01	2.46047e-01	2.46047e-01
45.1	2.45691e-01	2.45281e-01	2.45281e-01
45.2	2.44926e-01	2.44516e-01	2.44516e-01
45.3	2.44163e-01	2.44516e-01	2.44516e-01
45.4	2.43403e-01	2.44516e-01	2.44516e-01
45.5	2.42645e-01	2.42237e-01	2.42237e-01

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x	$A(x)$	P_{v1}	P_{v2}
45.6	2.41890e-01	2.41482e-01	2.41482e-01
45.7	2.41137e-01	2.40729e-01	2.40729e-01
45.8	2.40386e-01	2.40729e-01	2.40729e-01
45.9	2.39638e-01	2.40729e-01	2.40729e-01
46.0	2.38892e-01	2.38485e-01	2.38485e-01
46.1	2.38148e-01	2.37742e-01	2.37742e-01
46.2	2.37407e-01	2.37001e-01	2.37001e-01
46.3	2.36667e-01	2.37001e-01	2.37001e-01
46.4	2.35931e-01	2.37001e-01	2.37001e-01
46.5	2.35196e-01	2.34791e-01	2.34791e-01
46.6	2.34464e-01	2.34060e-01	2.34060e-01
46.7	2.33734e-01	2.33330e-01	2.33330e-01
46.8	2.33006e-01	2.33330e-01	2.33330e-01
46.9	2.32281e-01	2.33330e-01	2.33330e-01
47.0	2.31558e-01	2.31155e-01	2.31155e-01
47.1	2.30837e-01	2.30435e-01	2.30435e-01
47.2	2.30118e-01	2.29716e-01	2.29716e-01
47.3	2.29402e-01	2.29716e-01	2.29716e-01
47.4	2.28688e-01	2.29716e-01	2.29716e-01
47.5	2.27976e-01	2.27575e-01	2.27575e-01
47.6	2.27266e-01	2.26866e-01	2.26866e-01
47.7	2.26558e-01	2.26158e-01	2.26158e-01
47.8	2.25853e-01	2.26158e-01	2.26158e-01
47.9	2.25150e-01	2.26158e-01	2.26158e-01
48.0	2.24449e-01	2.24050e-01	2.24050e-01
48.1	2.23750e-01	2.23352e-01	2.23352e-01
48.2	2.23054e-01	2.22656e-01	2.22656e-01
48.3	2.22359e-01	2.22656e-01	2.22656e-01
48.4	2.21667e-01	2.22656e-01	2.22656e-01
48.5	2.20977e-01	2.20580e-01	2.20580e-01
48.6	2.20289e-01	2.19893e-01	2.19893e-01
48.7	2.19603e-01	2.19207e-01	2.19207e-01
48.8	2.18920e-01	2.19207e-01	2.19207e-01
48.9	2.18238e-01	2.19207e-01	2.19207e-01
49.0	2.17559e-01	2.17164e-01	2.17164e-01
49.1	2.16881e-01	2.16487e-01	2.16487e-01
49.2	2.16206e-01	2.15812e-01	2.15812e-01
49.3	2.15533e-01	2.15812e-01	2.15812e-01
49.4	2.14862e-01	2.15812e-01	2.15812e-01
49.5	2.14193e-01	2.13801e-01	2.13801e-01

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x	$A(x)$	P_{v1}	P_{v2}
49.6	2.13526e-01	2.13134e-01	2.13134e-01
49.7	2.12861e-01	2.12470e-01	2.12470e-01
49.8	2.12199e-01	2.12470e-01	2.12470e-01
49.9	2.11538e-01	2.12470e-01	2.12470e-01
50.0	2.10880e-01	2.10489e-01	2.10489e-01
50.1	2.10223e-01	2.09833e-01	2.09833e-01
50.2	2.09569e-01	2.09179e-01	2.09179e-01
50.3	2.08916e-01	2.09179e-01	2.09179e-01
50.4	2.08266e-01	2.09179e-01	2.09179e-01
50.5	2.07617e-01	2.07229e-01	2.07229e-01
50.6	2.06971e-01	2.06583e-01	2.06583e-01
50.7	2.06327e-01	2.05939e-01	2.05939e-01
50.8	2.05684e-01	2.05939e-01	2.05939e-01
50.9	2.05044e-01	2.05939e-01	2.05939e-01
51.0	2.04406e-01	2.04020e-01	2.04020e-01
51.1	2.03769e-01	2.03384e-01	2.03384e-01
51.2	2.03135e-01	2.02750e-01	2.02750e-01
51.3	2.02503e-01	2.02750e-01	2.02750e-01
51.4	2.01872e-01	2.02750e-01	2.02750e-01
51.5	2.01244e-01	2.00860e-01	2.00860e-01
51.6	2.00617e-01	2.00234e-01	2.00234e-01
51.7	1.99993e-01	1.99610e-01	1.99610e-01
51.8	1.99370e-01	1.99610e-01	1.99610e-01
51.9	1.98749e-01	1.99610e-01	1.99610e-01
52.0	1.98131e-01	1.97749e-01	1.97749e-01
52.1	1.97514e-01	1.97133e-01	1.97133e-01
52.2	1.96899e-01	1.96518e-01	1.96518e-01
52.3	1.96286e-01	1.96518e-01	1.96518e-01
52.4	1.95675e-01	1.96518e-01	1.96518e-01
52.5	1.95066e-01	1.94686e-01	1.94686e-01
52.6	1.94458e-01	1.94080e-01	1.94080e-01
52.7	1.93853e-01	1.93475e-01	1.93475e-01
52.8	1.93249e-01	1.93475e-01	1.93475e-01
52.9	1.92648e-01	1.93475e-01	1.93475e-01
53.0	1.92048e-01	1.91671e-01	1.91671e-01
53.1	1.91450e-01	1.91074e-01	1.91074e-01
53.2	1.90854e-01	1.90478e-01	1.90478e-01
53.3	1.90260e-01	1.90478e-01	1.90478e-01
53.4	1.89668e-01	1.90478e-01	1.90478e-01
53.5	1.89077e-01	1.88703e-01	1.88703e-01

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x	$A(x)$	P_{v1}	P_{v2}
53.6	1.88488e-01	1.88114e-01	1.88114e-01
53.7	1.87902e-01	1.87528e-01	1.87528e-01
53.8	1.87317e-01	1.87528e-01	1.87528e-01
53.9	1.86734e-01	1.87528e-01	1.87528e-01
54.0	1.86152e-01	1.85780e-01	1.85780e-01
54.1	1.85573e-01	1.85201e-01	1.85201e-01
54.2	1.84995e-01	1.84624e-01	1.84624e-01
54.3	1.84419e-01	1.84624e-01	1.84624e-01
54.4	1.83845e-01	1.84624e-01	1.84624e-01
54.5	1.83273e-01	1.82903e-01	1.82903e-01
54.6	1.82702e-01	1.82333e-01	1.82333e-01
54.7	1.82133e-01	1.81764e-01	1.81764e-01
54.8	1.81566e-01	1.81764e-01	1.81764e-01
54.9	1.81001e-01	1.81764e-01	1.81764e-01
55.0	1.80437e-01	1.80070e-01	1.80070e-01
55.1	1.79876e-01	1.79509e-01	1.79509e-01
55.2	1.79316e-01	1.78949e-01	1.78949e-01
55.3	1.78757e-01	1.78949e-01	1.78949e-01
55.4	1.78201e-01	1.78949e-01	1.78949e-01
55.5	1.77646e-01	1.77281e-01	1.77281e-01
55.6	1.77093e-01	1.76728e-01	1.76728e-01
55.7	1.76542e-01	1.76178e-01	1.76178e-01
55.8	1.75992e-01	1.76178e-01	1.76178e-01
55.9	1.75444e-01	1.76178e-01	1.76178e-01
56.0	1.74898e-01	1.74535e-01	1.74535e-01
56.1	1.74354e-01	1.73991e-01	1.73991e-01
56.2	1.73811e-01	1.73449e-01	1.73449e-01
56.3	1.73270e-01	1.73449e-01	1.73449e-01
56.4	1.72730e-01	1.73449e-01	1.73449e-01
56.5	1.72192e-01	1.71832e-01	1.71832e-01
56.6	1.71656e-01	1.71297e-01	1.71297e-01
56.7	1.71122e-01	1.70763e-01	1.70763e-01
56.8	1.70589e-01	1.70763e-01	1.70763e-01
56.9	1.70058e-01	1.70763e-01	1.70763e-01
57.0	1.69529e-01	1.69171e-01	1.69171e-01
57.1	1.69001e-01	1.68644e-01	1.68644e-01
57.2	1.68475e-01	1.68118e-01	1.68118e-01
57.3	1.67950e-01	1.68118e-01	1.68118e-01
57.4	1.67427e-01	1.68118e-01	1.68118e-01
57.5	1.66906e-01	1.66551e-01	1.66551e-01

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x	$A(x)$	P_{v1}	P_{v2}
57.6	1.66387e-01	1.66032e-01	1.66032e-01
57.7	1.65869e-01	1.65514e-01	1.65514e-01
57.8	1.65352e-01	1.65514e-01	1.65514e-01
57.9	1.64837e-01	1.65514e-01	1.65514e-01
58.0	1.64324e-01	1.63971e-01	1.63971e-01
58.1	1.63813e-01	1.63460e-01	1.63460e-01
58.2	1.63303e-01	1.62951e-01	1.62951e-01
58.3	1.62794e-01	1.62951e-01	1.62951e-01
58.4	1.62288e-01	1.62951e-01	1.62951e-01
58.5	1.61782e-01	1.61432e-01	1.61432e-01
58.6	1.61279e-01	1.60928e-01	1.60928e-01
58.7	1.60777e-01	1.60427e-01	1.60427e-01
58.8	1.60276e-01	1.60427e-01	1.60427e-01
58.9	1.59777e-01	1.60427e-01	1.60427e-01
59.0	1.59280e-01	1.58931e-01	1.58931e-01
59.1	1.58784e-01	1.58436e-01	1.58436e-01
59.2	1.58289e-01	1.57942e-01	1.57942e-01
59.3	1.57797e-01	1.57942e-01	1.57942e-01
59.4	1.57305e-01	1.57942e-01	1.57942e-01
59.5	1.56816e-01	1.56470e-01	1.56470e-01
59.6	1.56327e-01	1.55982e-01	1.55982e-01
59.7	1.55841e-01	1.55496e-01	1.55496e-01
59.8	1.55356e-01	1.55496e-01	1.55496e-01
59.9	1.54872e-01	1.55496e-01	1.55496e-01
60.0	1.54390e-01	1.54047e-01	1.54047e-01
60.1	1.53909e-01	1.53566e-01	1.53566e-01
60.2	1.53430e-01	1.53088e-01	1.53088e-01
60.3	1.52952e-01	1.53088e-01	1.53088e-01
60.4	1.52476e-01	1.53088e-01	1.53088e-01
60.5	1.52001e-01	1.51661e-01	1.51661e-01
60.6	1.51528e-01	1.51188e-01	1.51188e-01
60.7	1.51056e-01	1.50717e-01	1.50717e-01
60.8	1.50586e-01	1.50717e-01	1.50717e-01
60.9	1.50117e-01	1.50717e-01	1.50717e-01
61.0	1.49650e-01	1.49312e-01	1.49312e-01
61.1	1.49184e-01	1.48846e-01	1.48846e-01
61.2	1.48720e-01	1.48383e-01	1.48383e-01
61.3	1.48257e-01	1.48383e-01	1.48383e-01
61.4	1.47795e-01	1.48383e-01	1.48383e-01
61.5	1.47335e-01	1.46999e-01	1.46999e-01

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x	$A(x)$	P_{v1}	P_{v2}
61.6	1.46876e-01	1.46541e-01	1.46541e-01
61.7	1.46419e-01	1.46084e-01	1.46084e-01
61.8	1.45963e-01	1.46084e-01	1.46084e-01
61.9	1.45509e-01	1.46084e-01	1.46084e-01
62.0	1.45056e-01	1.44723e-01	1.44723e-01
62.1	1.44604e-01	1.44272e-01	1.44272e-01
62.2	1.44154e-01	1.43822e-01	1.43822e-01
62.3	1.43705e-01	1.43822e-01	1.43822e-01
62.4	1.43258e-01	1.43822e-01	1.43822e-01
62.5	1.42812e-01	1.42481e-01	1.42481e-01
62.6	1.42367e-01	1.42037e-01	1.42037e-01
62.7	1.41924e-01	1.41594e-01	1.41594e-01
62.8	1.41482e-01	1.41594e-01	1.41594e-01
62.9	1.41042e-01	1.41594e-01	1.41594e-01
63.0	1.40603e-01	1.40274e-01	1.40274e-01
63.1	1.40165e-01	1.39837e-01	1.39837e-01
63.2	1.39729e-01	1.39401e-01	1.39401e-01
63.3	1.39294e-01	1.39401e-01	1.39401e-01
63.4	1.38860e-01	1.39401e-01	1.39401e-01
63.5	1.38428e-01	1.38102e-01	1.38102e-01
63.6	1.37997e-01	1.37671e-01	1.37671e-01
63.7	1.37567e-01	1.37242e-01	1.37242e-01
63.8	1.37139e-01	1.37242e-01	1.37242e-01
63.9	1.36712e-01	1.37242e-01	1.37242e-01
64.0	1.36286e-01	1.35963e-01	1.35963e-01
64.1	1.35862e-01	1.35963e-01	1.35963e-01
64.2	1.35439e-01	1.35117e-01	1.35117e-01
64.3	1.35017e-01	1.34696e-01	1.34696e-01
64.4	1.34597e-01	1.34276e-01	1.34276e-01
64.5	1.34178e-01	1.33857e-01	1.33857e-01
64.6	1.33760e-01	1.33857e-01	1.33857e-01
64.7	1.33344e-01	1.33024e-01	1.33024e-01
64.8	1.32929e-01	1.32609e-01	1.32609e-01
64.9	1.32515e-01	1.32196e-01	1.32196e-01
65.0	1.32102e-01	1.31784e-01	1.31784e-01
65.1	1.31691e-01	1.31784e-01	1.31784e-01
65.2	1.31281e-01	1.30964e-01	1.30964e-01
65.3	1.30872e-01	1.30556e-01	1.30556e-01
65.4	1.30465e-01	1.30149e-01	1.30149e-01
65.5	1.30059e-01	1.29743e-01	1.29743e-01

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x	$A(x)$	P_{v1}	P_{v2}
65.6	1.29654e-01	1.29743e-01	1.29743e-01
65.7	1.29250e-01	1.28936e-01	1.28936e-01
65.8	1.28848e-01	1.28534e-01	1.28534e-01
65.9	1.28447e-01	1.28133e-01	1.28133e-01
66.0	1.28047e-01	1.27734e-01	1.27734e-01
66.1	1.27648e-01	1.27734e-01	1.27734e-01
66.2	1.27251e-01	1.26939e-01	1.26939e-01
66.3	1.26855e-01	1.26543e-01	1.26543e-01
66.4	1.26460e-01	1.26149e-01	1.26149e-01
66.5	1.26066e-01	1.25755e-01	1.25755e-01
66.6	1.25674e-01	1.25755e-01	1.25755e-01
66.7	1.25282e-01	1.24973e-01	1.24973e-01
66.8	1.24892e-01	1.24583e-01	1.24583e-01
66.9	1.24503e-01	1.24195e-01	1.24195e-01
67.0	1.24116e-01	1.23808e-01	1.23808e-01
67.1	1.23729e-01	1.23808e-01	1.23808e-01
67.2	1.23344e-01	1.23037e-01	1.23037e-01
67.3	1.22960e-01	1.22654e-01	1.22654e-01
67.4	1.22577e-01	1.22271e-01	1.22271e-01
67.5	1.22196e-01	1.21890e-01	1.21890e-01
67.6	1.21815e-01	1.21890e-01	1.21890e-01
67.7	1.21436e-01	1.21131e-01	1.21131e-01
67.8	1.21058e-01	1.20754e-01	1.20754e-01
67.9	1.20681e-01	1.20378e-01	1.20378e-01
68.0	1.20306e-01	1.20002e-01	1.20002e-01
68.1	1.19931e-01	1.20002e-01	1.20002e-01
68.2	1.19558e-01	1.19255e-01	1.19255e-01
68.3	1.19185e-01	1.18884e-01	1.18884e-01
68.4	1.18814e-01	1.18513e-01	1.18513e-01
68.5	1.18444e-01	1.18144e-01	1.18144e-01
68.6	1.18076e-01	1.18144e-01	1.18144e-01
68.7	1.17708e-01	1.17408e-01	1.17408e-01
68.8	1.17342e-01	1.17042e-01	1.17042e-01
68.9	1.16976e-01	1.16678e-01	1.16678e-01
69.0	1.16612e-01	1.16314e-01	1.16314e-01
69.1	1.16249e-01	1.16314e-01	1.16314e-01
69.2	1.15887e-01	1.15590e-01	1.15590e-01
69.3	1.15526e-01	1.15230e-01	1.15230e-01
69.4	1.15167e-01	1.14871e-01	1.14871e-01
69.5	1.14808e-01	1.14513e-01	1.14513e-01

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x	$A(x)$	P_{v1}	P_{v2}
69.6	1.14451e-01	1.14513e-01	1.14513e-01
69.7	1.14095e-01	1.13800e-01	1.13800e-01
69.8	1.13739e-01	1.13445e-01	1.13445e-01
69.9	1.13385e-01	1.13091e-01	1.13091e-01
70.0	1.13032e-01	1.12739e-01	1.12739e-01
70.1	1.12680e-01	1.12739e-01	1.12739e-01
70.2	1.12330e-01	1.12037e-01	1.12037e-01
70.3	1.11980e-01	1.11688e-01	1.11688e-01
70.4	1.11631e-01	1.11340e-01	1.11340e-01
70.5	1.11284e-01	1.10993e-01	1.10993e-01
70.6	1.10937e-01	1.10993e-01	1.10993e-01
70.7	1.10592e-01	1.10302e-01	1.10302e-01
70.8	1.10248e-01	1.09958e-01	1.09958e-01
70.9	1.09904e-01	1.09616e-01	1.09616e-01
71.0	1.09562e-01	1.09274e-01	1.09274e-01
71.1	1.09221e-01	1.09274e-01	1.09274e-01
71.2	1.08881e-01	1.08594e-01	1.08594e-01
71.3	1.08542e-01	1.08255e-01	1.08255e-01
71.4	1.08204e-01	1.07918e-01	1.07918e-01
71.5	1.07867e-01	1.07581e-01	1.07581e-01
71.6	1.07532e-01	1.07581e-01	1.07581e-01
71.7	1.07197e-01	1.06912e-01	1.06912e-01
71.8	1.06863e-01	1.06579e-01	1.06579e-01
71.9	1.06530e-01	1.06246e-01	1.06246e-01
72.0	1.06199e-01	1.05915e-01	1.05915e-01
72.1	1.05868e-01	1.05915e-01	1.05915e-01
72.2	1.05538e-01	1.05256e-01	1.05256e-01
72.3	1.05210e-01	1.04928e-01	1.04928e-01
72.4	1.04882e-01	1.04601e-01	1.04601e-01
72.5	1.04556e-01	1.04275e-01	1.04275e-01
72.6	1.04230e-01	1.04275e-01	1.04275e-01
72.7	1.03906e-01	1.03626e-01	1.03626e-01
72.8	1.03582e-01	1.03303e-01	1.03303e-01
72.9	1.03260e-01	1.02981e-01	1.02981e-01
73.0	1.02938e-01	1.02660e-01	1.02660e-01
73.1	1.02618e-01	1.02660e-01	1.02660e-01
73.2	1.02298e-01	1.02021e-01	1.02021e-01
73.3	1.01980e-01	1.01703e-01	1.01703e-01
73.4	1.01663e-01	1.01386e-01	1.01386e-01
73.5	1.01346e-01	1.01070e-01	1.01070e-01

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x	$A(x)$	P_{v1}	P_{v2}
73.6	1.01031e-01	1.01070e-01	1.01070e-01
73.7	1.00716e-01	1.00441e-01	1.00441e-01
73.8	1.00402e-01	1.00128e-01	1.00128e-01
73.9	1.00090e-01	9.98157e-02	9.98157e-02
74.0	9.97783e-02	9.95045e-02	9.95045e-02
74.1	9.94676e-02	9.95045e-02	9.95045e-02
74.2	9.91580e-02	9.88852e-02	9.88852e-02
74.3	9.88493e-02	9.85770e-02	9.85770e-02
74.4	9.85415e-02	9.82697e-02	9.82697e-02
74.5	9.82348e-02	9.79634e-02	9.79634e-02
74.6	9.79289e-02	9.79634e-02	9.79634e-02
74.7	9.76241e-02	9.73537e-02	9.73537e-02
74.8	9.73201e-02	9.70503e-02	9.70503e-02
74.9	9.70172e-02	9.67478e-02	9.67478e-02
75.0	9.67151e-02	9.64462e-02	9.64462e-02
75.1	9.64140e-02	9.64462e-02	9.64462e-02
75.2	9.61139e-02	9.58459e-02	9.58459e-02
75.3	9.58146e-02	9.55472e-02	9.55472e-02
75.4	9.55163e-02	9.52494e-02	9.52494e-02
75.5	9.52190e-02	9.49525e-02	9.49525e-02
75.6	9.49225e-02	9.49525e-02	9.49525e-02
75.7	9.46270e-02	9.43615e-02	9.43615e-02
75.8	9.43324e-02	9.40673e-02	9.40673e-02
75.9	9.40388e-02	9.37741e-02	9.37741e-02
76.0	9.37460e-02	9.34819e-02	9.34819e-02
76.1	9.34541e-02	9.34819e-02	9.34819e-02
76.2	9.31632e-02	9.29000e-02	9.29000e-02
76.3	9.28732e-02	9.26105e-02	9.26105e-02
76.4	9.25840e-02	9.23218e-02	9.23218e-02
76.5	9.22958e-02	9.20340e-02	9.20340e-02
76.6	9.20085e-02	9.20340e-02	9.20340e-02
76.7	9.17220e-02	9.14612e-02	9.14612e-02
76.8	9.14365e-02	9.14612e-02	9.14612e-02
76.9	9.11518e-02	9.08919e-02	9.08919e-02
77.0	9.08680e-02	9.06086e-02	9.06086e-02
77.1	9.05851e-02	9.06086e-02	9.06086e-02
77.2	9.03031e-02	9.00447e-02	9.00447e-02
77.3	9.00220e-02	9.00447e-02	9.00447e-02
77.4	8.97417e-02	8.94842e-02	8.94842e-02
77.5	8.94624e-02	8.92053e-02	8.92053e-02

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x	$A(x)$	P_{v1}	P_{v2}
77.6	8.91838e-02	8.92053e-02	8.92053e-02
77.7	8.89062e-02	8.86501e-02	8.86501e-02
77.8	8.86294e-02	8.86501e-02	8.86501e-02
77.9	8.83535e-02	8.80983e-02	8.80983e-02
78.0	8.80784e-02	8.78237e-02	8.78237e-02
78.1	8.78042e-02	8.78237e-02	8.78237e-02
78.2	8.75309e-02	8.72771e-02	8.72771e-02
78.3	8.72584e-02	8.72771e-02	8.72771e-02
78.4	8.69867e-02	8.67339e-02	8.67339e-02
78.5	8.67159e-02	8.64635e-02	8.64635e-02
78.6	8.64459e-02	8.64635e-02	8.64635e-02
78.7	8.61768e-02	8.59253e-02	8.59253e-02
78.8	8.59085e-02	8.59253e-02	8.59253e-02
78.9	8.56411e-02	8.53905e-02	8.53905e-02
79.0	8.53744e-02	8.51244e-02	8.51244e-02
79.1	8.51087e-02	8.51244e-02	8.51244e-02
79.2	8.48437e-02	8.45946e-02	8.45946e-02
79.3	8.45796e-02	8.45946e-02	8.45946e-02
79.4	8.43162e-02	8.40680e-02	8.40680e-02
79.5	8.40538e-02	8.38060e-02	8.38060e-02
79.6	8.37921e-02	8.38060e-02	8.38060e-02
79.7	8.35312e-02	8.32844e-02	8.32844e-02
79.8	8.32712e-02	8.32844e-02	8.32844e-02
79.9	8.30119e-02	8.27660e-02	8.27660e-02
80.0	8.27535e-02	8.25080e-02	8.25080e-02
80.1	8.24959e-02	8.25080e-02	8.25080e-02
80.2	8.22390e-02	8.19945e-02	8.19945e-02
80.3	8.19830e-02	8.19945e-02	8.19945e-02
80.4	8.17278e-02	8.14841e-02	8.14841e-02
80.5	8.14733e-02	8.12302e-02	8.12302e-02
80.6	8.12197e-02	8.12302e-02	8.12302e-02
80.7	8.09668e-02	8.07246e-02	8.07246e-02
80.8	8.07148e-02	8.07246e-02	8.07246e-02
80.9	8.04635e-02	8.02221e-02	8.02221e-02
81.0	8.02130e-02	7.99721e-02	7.99721e-02
81.1	7.99633e-02	7.99721e-02	7.99721e-02
81.2	7.97143e-02	7.94743e-02	7.94743e-02
81.3	7.94662e-02	7.94743e-02	7.94743e-02
81.4	7.92188e-02	7.89797e-02	7.89797e-02
81.5	7.89721e-02	7.87335e-02	7.87335e-02

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x	$A(x)$	P_{v1}	P_{v2}
81.6	7.87263e-02	7.87335e-02	7.87335e-02
81.7	7.84812e-02	7.82434e-02	7.82434e-02
81.8	7.82369e-02	7.82434e-02	7.82434e-02
81.9	7.79933e-02	7.77564e-02	7.77564e-02
82.0	7.77505e-02	7.75141e-02	7.75141e-02
82.1	7.75084e-02	7.75141e-02	7.75141e-02
82.2	7.72671e-02	7.70316e-02	7.70316e-02
82.3	7.70266e-02	7.70316e-02	7.70316e-02
82.4	7.67868e-02	7.65522e-02	7.65522e-02
82.5	7.65477e-02	7.63136e-02	7.63136e-02
82.6	7.63094e-02	7.63136e-02	7.63136e-02
82.7	7.60718e-02	7.58386e-02	7.58386e-02
82.8	7.58350e-02	7.58386e-02	7.58386e-02
82.9	7.55989e-02	7.53665e-02	7.53665e-02
83.0	7.53636e-02	7.51316e-02	7.51316e-02
83.1	7.51289e-02	7.51316e-02	7.51316e-02
83.2	7.48951e-02	7.46640e-02	7.46640e-02
83.3	7.46619e-02	7.46640e-02	7.46640e-02
83.4	7.44295e-02	7.41993e-02	7.41993e-02
83.5	7.41977e-02	7.39680e-02	7.39680e-02
83.6	7.39667e-02	7.39680e-02	7.39680e-02
83.7	7.37365e-02	7.35076e-02	7.35076e-02
83.8	7.35069e-02	7.35076e-02	7.35076e-02
83.9	7.32781e-02	7.30501e-02	7.30501e-02
84.0	7.30499e-02	7.28224e-02	7.28224e-02
84.1	7.28225e-02	7.28224e-02	7.28224e-02
84.2	7.25958e-02	7.23691e-02	7.23691e-02
84.3	7.23698e-02	7.23691e-02	7.23691e-02
84.4	7.21445e-02	7.19187e-02	7.19187e-02
84.5	7.19199e-02	7.16945e-02	7.16945e-02
84.6	7.16960e-02	7.16945e-02	7.16945e-02
84.7	7.14728e-02	7.12483e-02	7.12483e-02
84.8	7.12503e-02	7.12483e-02	7.12483e-02
84.9	7.10285e-02	7.08048e-02	7.08048e-02
85.0	7.08073e-02	7.05842e-02	7.05842e-02
85.1	7.05869e-02	7.05842e-02	7.05842e-02
85.2	7.03671e-02	7.01448e-02	7.01448e-02
85.3	7.01481e-02	7.01448e-02	7.01448e-02
85.4	6.99297e-02	6.97082e-02	6.97082e-02
85.5	6.97120e-02	6.94910e-02	6.94910e-02

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x	$A(x)$	P_{v1}	P_{v2}
85.6	6.94950e-02	6.94910e-02	6.94910e-02
85.7	6.92786e-02	6.90584e-02	6.90584e-02
85.8	6.90629e-02	6.90584e-02	6.90584e-02
85.9	6.88479e-02	6.86286e-02	6.86286e-02
86.0	6.86336e-02	6.84147e-02	6.84147e-02
86.1	6.84199e-02	6.84147e-02	6.84147e-02
86.2	6.82069e-02	6.79889e-02	6.79889e-02
86.3	6.79946e-02	6.79889e-02	6.79889e-02
86.4	6.77829e-02	6.75657e-02	6.75657e-02
86.5	6.75719e-02	6.73551e-02	6.73551e-02
86.6	6.73615e-02	6.73551e-02	6.73551e-02
86.7	6.71518e-02	6.69359e-02	6.69359e-02
86.8	6.69427e-02	6.69359e-02	6.69359e-02
86.9	6.67343e-02	6.65193e-02	6.65193e-02
87.0	6.65266e-02	6.63119e-02	6.63119e-02
87.1	6.63194e-02	6.63119e-02	6.63119e-02
87.2	6.61130e-02	6.58992e-02	6.58992e-02
87.3	6.59072e-02	6.58992e-02	6.58992e-02
87.4	6.57020e-02	6.54890e-02	6.54890e-02
87.5	6.54974e-02	6.52849e-02	6.52849e-02
87.6	6.52935e-02	6.52849e-02	6.52849e-02
87.7	6.50902e-02	6.48786e-02	6.48786e-02
87.8	6.48876e-02	6.48786e-02	6.48786e-02
87.9	6.46856e-02	6.44747e-02	6.44747e-02
88.0	6.44842e-02	6.42738e-02	6.42738e-02
88.1	6.42835e-02	6.42738e-02	6.42738e-02
88.2	6.40833e-02	6.38737e-02	6.38737e-02
88.3	6.38838e-02	6.38737e-02	6.38737e-02
88.4	6.36849e-02	6.34762e-02	6.34762e-02
88.5	6.34867e-02	6.32783e-02	6.32783e-02
88.6	6.32890e-02	6.32783e-02	6.32783e-02
88.7	6.30920e-02	6.28845e-02	6.28845e-02
88.8	6.28956e-02	6.28845e-02	6.28845e-02
88.9	6.26998e-02	6.24931e-02	6.24931e-02
89.0	6.25046e-02	6.22983e-02	6.22983e-02
89.1	6.23100e-02	6.22983e-02	6.22983e-02
89.2	6.21160e-02	6.19105e-02	6.19105e-02
89.3	6.19226e-02	6.19105e-02	6.19105e-02
89.4	6.17298e-02	6.15252e-02	6.15252e-02
89.5	6.15377e-02	6.13334e-02	6.13334e-02

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x	$A(x)$	P_{v1}	P_{v2}
89.6	6.13461e-02	6.13334e-02	6.13334e-02
89.7	6.11551e-02	6.09517e-02	6.09517e-02
89.8	6.09647e-02	6.09517e-02	6.09517e-02
89.9	6.07749e-02	6.05723e-02	6.05723e-02
90.0	6.05857e-02	6.03835e-02	6.03835e-02
90.1	6.03971e-02	6.03835e-02	6.03835e-02
90.2	6.02091e-02	6.00077e-02	6.00077e-02
90.3	6.00216e-02	6.00077e-02	6.00077e-02
90.4	5.98348e-02	5.96342e-02	5.96342e-02
90.5	5.96485e-02	5.94483e-02	5.94483e-02
90.6	5.94628e-02	5.94483e-02	5.94483e-02
90.7	5.92777e-02	5.90783e-02	5.90783e-02
90.8	5.90931e-02	5.90783e-02	5.90783e-02
90.9	5.89091e-02	5.87106e-02	5.87106e-02
91.0	5.87258e-02	5.85276e-02	5.85276e-02
91.1	5.85429e-02	5.85276e-02	5.85276e-02
91.2	5.83607e-02	5.81633e-02	5.81633e-02
91.3	5.81790e-02	5.81633e-02	5.81633e-02
91.4	5.79979e-02	5.78013e-02	5.78013e-02
91.5	5.78173e-02	5.76211e-02	5.76211e-02
91.6	5.76373e-02	5.76211e-02	5.76211e-02
91.7	5.74579e-02	5.72625e-02	5.72625e-02
91.8	5.72790e-02	5.72625e-02	5.72625e-02
91.9	5.71007e-02	5.69060e-02	5.69060e-02
92.0	5.69229e-02	5.67287e-02	5.67287e-02
92.1	5.67457e-02	5.67287e-02	5.67287e-02
92.2	5.65690e-02	5.63756e-02	5.63756e-02
92.3	5.63929e-02	5.63756e-02	5.63756e-02
92.4	5.62173e-02	5.60247e-02	5.60247e-02
92.5	5.60423e-02	5.58501e-02	5.58501e-02
92.6	5.58679e-02	5.58501e-02	5.58501e-02
92.7	5.56939e-02	5.55025e-02	5.55025e-02
92.8	5.55205e-02	5.55025e-02	5.55025e-02
92.9	5.53477e-02	5.51570e-02	5.51570e-02
93.0	5.51754e-02	5.49851e-02	5.49851e-02
93.1	5.50036e-02	5.49851e-02	5.49851e-02
93.2	5.48324e-02	5.46428e-02	5.46428e-02
93.3	5.46617e-02	5.46428e-02	5.46428e-02
93.4	5.44915e-02	5.43027e-02	5.43027e-02
93.5	5.43219e-02	5.41335e-02	5.41335e-02

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x	$A(x)$	P_{v1}	P_{v2}
93.6	5.41527e-02	5.41335e-02	5.41335e-02
93.7	5.39841e-02	5.37965e-02	5.37965e-02
93.8	5.38161e-02	5.37965e-02	5.37965e-02
93.9	5.36485e-02	5.34617e-02	5.34617e-02
94.0	5.34815e-02	5.32951e-02	5.32951e-02
94.1	5.33150e-02	5.32951e-02	5.32951e-02
94.2	5.31490e-02	5.29634e-02	5.29634e-02
94.3	5.29836e-02	5.29634e-02	5.29634e-02
94.4	5.28186e-02	5.26337e-02	5.26337e-02
94.5	5.26542e-02	5.24697e-02	5.24697e-02
94.6	5.24903e-02	5.24697e-02	5.24697e-02
94.7	5.23269e-02	5.21431e-02	5.21431e-02
94.8	5.21640e-02	5.21431e-02	5.21431e-02
94.9	5.20016e-02	5.18185e-02	5.18185e-02
95.0	5.18397e-02	5.16570e-02	5.16570e-02
95.1	5.16783e-02	5.16570e-02	5.16570e-02
95.2	5.15174e-02	5.13355e-02	5.13355e-02
95.3	5.13570e-02	5.13355e-02	5.13355e-02
95.4	5.11971e-02	5.10160e-02	5.10160e-02
95.5	5.10377e-02	5.08570e-02	5.08570e-02
95.6	5.08788e-02	5.08570e-02	5.08570e-02
95.7	5.07204e-02	5.05404e-02	5.05404e-02
95.8	5.05625e-02	5.05404e-02	5.05404e-02
95.9	5.04051e-02	5.02258e-02	5.02258e-02
96.0	5.02482e-02	5.00693e-02	5.00693e-02
96.1	5.00918e-02	5.00693e-02	5.00693e-02
96.2	4.99358e-02	4.97577e-02	4.97577e-02
96.3	4.97804e-02	4.97577e-02	4.97577e-02
96.4	4.96254e-02	4.94480e-02	4.94480e-02
96.5	4.94709e-02	4.92938e-02	4.92938e-02
96.6	4.93169e-02	4.92938e-02	4.92938e-02
96.7	4.91633e-02	4.89870e-02	4.89870e-02
96.8	4.90103e-02	4.89870e-02	4.89870e-02
96.9	4.88577e-02	4.86821e-02	4.86821e-02
97.0	4.87056e-02	4.85304e-02	4.85304e-02
97.1	4.85540e-02	4.85304e-02	4.85304e-02
97.2	4.84028e-02	4.82283e-02	4.82283e-02
97.3	4.82521e-02	4.82283e-02	4.82283e-02
97.4	4.81019e-02	4.79281e-02	4.79281e-02
97.5	4.79522e-02	4.77788e-02	4.77788e-02

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x	$A(x)$	P_{v1}	P_{v2}
97.6	4.78029e-02	4.77788e-02	4.77788e-02
97.7	4.76540e-02	4.74814e-02	4.74814e-02
97.8	4.75057e-02	4.74814e-02	4.74814e-02
97.9	4.73578e-02	4.71858e-02	4.71858e-02
98.0	4.72104e-02	4.70388e-02	4.70388e-02
98.1	4.70634e-02	4.70388e-02	4.70388e-02
98.2	4.69169e-02	4.67460e-02	4.67460e-02
98.3	4.67708e-02	4.67460e-02	4.67460e-02
98.4	4.66252e-02	4.64550e-02	4.64550e-02
98.5	4.64800e-02	4.63102e-02	4.63102e-02
98.6	4.63353e-02	4.63102e-02	4.63102e-02
98.7	4.61911e-02	4.60220e-02	4.60220e-02
98.8	4.60473e-02	4.60220e-02	4.60220e-02
98.9	4.59039e-02	4.57355e-02	4.57355e-02
99.0	4.57610e-02	4.55930e-02	4.55930e-02
99.1	4.56186e-02	4.55930e-02	4.55930e-02
99.2	4.54765e-02	4.53092e-02	4.53092e-02
99.3	4.53350e-02	4.53092e-02	4.53092e-02
99.4	4.51938e-02	4.50272e-02	4.50272e-02
99.5	4.50531e-02	4.48869e-02	4.48869e-02
99.6	4.49129e-02	4.48869e-02	4.48869e-02
99.7	4.47730e-02	4.46075e-02	4.46075e-02
99.8	4.46337e-02	4.46075e-02	4.46075e-02
99.9	4.44947e-02	4.43298e-02	4.43298e-02
100.0	4.43562e-02	4.41917e-02	4.41917e-02
100.1	4.42181e-02	4.41917e-02	4.41917e-02
100.2	4.40804e-02	4.39166e-02	4.39166e-02
100.3	4.39432e-02	4.39166e-02	4.39166e-02
100.4	4.38064e-02	4.36433e-02	4.36433e-02
100.5	4.36700e-02	4.35072e-02	4.35072e-02
100.6	4.35341e-02	4.35072e-02	4.35072e-02
100.7	4.33985e-02	4.32364e-02	4.32364e-02
100.8	4.32634e-02	4.32364e-02	4.32364e-02
100.9	4.31287e-02	4.29673e-02	4.29673e-02
101.0	4.29945e-02	4.28334e-02	4.28334e-02
101.1	4.28606e-02	4.28334e-02	4.28334e-02
101.2	4.27272e-02	4.25668e-02	4.25668e-02
101.3	4.25942e-02	4.25668e-02	4.25668e-02
101.4	4.24616e-02	4.23019e-02	4.23019e-02
101.5	4.23294e-02	4.21700e-02	4.21700e-02

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x	$A(x)$	P_{v1}	P_{v2}
101.6	4.21976e-02	4.21700e-02	4.21700e-02
101.7	4.20662e-02	4.19075e-02	4.19075e-02
101.8	4.19352e-02	4.19075e-02	4.19075e-02
101.9	4.18047e-02	4.16467e-02	4.16467e-02
102.0	4.16745e-02	4.15169e-02	4.15169e-02
102.1	4.15448e-02	4.15169e-02	4.15169e-02
102.2	4.14155e-02	4.12585e-02	4.12585e-02
102.3	4.12865e-02	4.12585e-02	4.12585e-02
102.4	4.11580e-02	4.10017e-02	4.10017e-02
102.5	4.10299e-02	4.08739e-02	4.08739e-02
102.6	4.09021e-02	4.08739e-02	4.08739e-02
102.7	4.07748e-02	4.06195e-02	4.06195e-02
102.8	4.06479e-02	4.06195e-02	4.06195e-02
102.9	4.05213e-02	4.03666e-02	4.03666e-02
103.0	4.03952e-02	4.02408e-02	4.02408e-02
103.1	4.02694e-02	4.02408e-02	4.02408e-02
103.2	4.01440e-02	3.99904e-02	3.99904e-02
103.3	4.00191e-02	3.99904e-02	3.99904e-02
103.4	3.98945e-02	3.97415e-02	3.97415e-02
103.5	3.97703e-02	3.96176e-02	3.96176e-02
103.6	3.96464e-02	3.96176e-02	3.96176e-02
103.7	3.95230e-02	3.93710e-02	3.93710e-02
103.8	3.94000e-02	3.93710e-02	3.93710e-02
103.9	3.92773e-02	3.91260e-02	3.91260e-02
104.0	3.91550e-02	3.90040e-02	3.90040e-02
104.1	3.90331e-02	3.90040e-02	3.90040e-02
104.2	3.89116e-02	3.87612e-02	3.87612e-02
104.3	3.87905e-02	3.87612e-02	3.87612e-02
104.4	3.86697e-02	3.85200e-02	3.85200e-02
104.5	3.85493e-02	3.83999e-02	3.83999e-02
104.6	3.84293e-02	3.83999e-02	3.83999e-02
104.7	3.83097e-02	3.81609e-02	3.81609e-02
104.8	3.81904e-02	3.81609e-02	3.81609e-02
104.9	3.80715e-02	3.79234e-02	3.79234e-02
105.0	3.79530e-02	3.78052e-02	3.78052e-02
105.1	3.78348e-02	3.78052e-02	3.78052e-02
105.2	3.77171e-02	3.75699e-02	3.75699e-02
105.3	3.75996e-02	3.75699e-02	3.75699e-02
105.4	3.74826e-02	3.73360e-02	3.73360e-02
105.5	3.73659e-02	3.72197e-02	3.72197e-02

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x	$A(x)$	P_{v1}	P_{v2}
105.6	3.72496e-02	3.72197e-02	3.72197e-02
105.7	3.71336e-02	3.69880e-02	3.69880e-02
105.8	3.70180e-02	3.69880e-02	3.69880e-02
105.9	3.69027e-02	3.67578e-02	3.67578e-02
106.0	3.67879e-02	3.66432e-02	3.66432e-02
106.1	3.66733e-02	3.66432e-02	3.66432e-02
106.2	3.65592e-02	3.64151e-02	3.64151e-02
106.3	3.64453e-02	3.64151e-02	3.64151e-02
106.4	3.63319e-02	3.61885e-02	3.61885e-02
106.5	3.62188e-02	3.60757e-02	3.60757e-02
106.6	3.61060e-02	3.60757e-02	3.60757e-02
106.7	3.59936e-02	3.58512e-02	3.58512e-02
106.8	3.58815e-02	3.58512e-02	3.58512e-02
106.9	3.57698e-02	3.56280e-02	3.56280e-02
107.0	3.56585e-02	3.55170e-02	3.55170e-02
107.1	3.55475e-02	3.55170e-02	3.55170e-02
107.2	3.54368e-02	3.52959e-02	3.52959e-02
107.3	3.53265e-02	3.52959e-02	3.52959e-02
107.4	3.52165e-02	3.50762e-02	3.50762e-02
107.5	3.51069e-02	3.49669e-02	3.49669e-02
107.6	3.49976e-02	3.49669e-02	3.49669e-02
107.7	3.48886e-02	3.47492e-02	3.47492e-02
107.8	3.47800e-02	3.47492e-02	3.47492e-02
107.9	3.46717e-02	3.45330e-02	3.45330e-02
108.0	3.45638e-02	3.44253e-02	3.44253e-02
108.1	3.44562e-02	3.44253e-02	3.44253e-02
108.2	3.43489e-02	3.42110e-02	3.42110e-02
108.3	3.42420e-02	3.42110e-02	3.42110e-02
108.4	3.41354e-02	3.39981e-02	3.39981e-02
108.5	3.40291e-02	3.38921e-02	3.38921e-02
108.6	3.39232e-02	3.38921e-02	3.38921e-02
108.7	3.38175e-02	3.36812e-02	3.36812e-02
108.8	3.37123e-02	3.36812e-02	3.36812e-02
108.9	3.36073e-02	3.34716e-02	3.34716e-02
109.0	3.35027e-02	3.33672e-02	3.33672e-02
109.1	3.33984e-02	3.33672e-02	3.33672e-02
109.2	3.32944e-02	3.31595e-02	3.31595e-02
109.3	3.31908e-02	3.31595e-02	3.31595e-02
109.4	3.30874e-02	3.29532e-02	3.29532e-02
109.5	3.29844e-02	3.28504e-02	3.28504e-02

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x	$A(x)$	P_{v1}	P_{v2}
109.6	3.28817e-02	3.28504e-02	3.28504e-02
109.7	3.27794e-02	3.26460e-02	3.26460e-02
109.8	3.26773e-02	3.26460e-02	3.26460e-02
109.9	3.25756e-02	3.24428e-02	3.24428e-02
110.0	3.24742e-02	3.23417e-02	3.23417e-02
110.1	3.23731e-02	3.23417e-02	3.23417e-02
110.2	3.22723e-02	3.21404e-02	3.21404e-02
110.3	3.21718e-02	3.21404e-02	3.21404e-02
110.4	3.20717e-02	3.19403e-02	3.19403e-02
110.5	3.19718e-02	3.18408e-02	3.18408e-02
110.6	3.18723e-02	3.18408e-02	3.18408e-02
110.7	3.17730e-02	3.16426e-02	3.16426e-02
110.8	3.16741e-02	3.16426e-02	3.16426e-02
110.9	3.15755e-02	3.14456e-02	3.14456e-02
111.0	3.14772e-02	3.13476e-02	3.13476e-02
111.1	3.13792e-02	3.13476e-02	3.13476e-02
111.2	3.12815e-02	3.11525e-02	3.11525e-02
111.3	3.11841e-02	3.11525e-02	3.11525e-02
111.4	3.10871e-02	3.09586e-02	3.09586e-02
111.5	3.09903e-02	3.08621e-02	3.08621e-02
111.6	3.08938e-02	3.08621e-02	3.08621e-02
111.7	3.07976e-02	3.06700e-02	3.06700e-02
111.8	3.07017e-02	3.06700e-02	3.06700e-02
111.9	3.06062e-02	3.04791e-02	3.04791e-02
112.0	3.05109e-02	3.03841e-02	3.03841e-02
112.1	3.04159e-02	3.03841e-02	3.03841e-02
112.2	3.03212e-02	3.01950e-02	3.01950e-02
112.3	3.02268e-02	3.01950e-02	3.01950e-02
112.4	3.01327e-02	3.00071e-02	3.00071e-02
112.5	3.00389e-02	2.99135e-02	2.99135e-02
112.6	2.99454e-02	2.99135e-02	2.99135e-02
112.7	2.98522e-02	2.97274e-02	2.97274e-02
112.8	2.97592e-02	2.97274e-02	2.97274e-02
112.9	2.96666e-02	2.95423e-02	2.95423e-02
113.0	2.95742e-02	2.94503e-02	2.94503e-02
113.1	2.94821e-02	2.94503e-02	2.94503e-02
113.2	2.93904e-02	2.92669e-02	2.92669e-02
113.3	2.92989e-02	2.92669e-02	2.92669e-02
113.4	2.92076e-02	2.90848e-02	2.90848e-02
113.5	2.91167e-02	2.89941e-02	2.89941e-02

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x	$A(x)$	P_{v1}	P_{v2}
113.6	2.90261e-02	2.89941e-02	2.89941e-02
113.7	2.89357e-02	2.88137e-02	2.88137e-02
113.8	2.88456e-02	2.88137e-02	2.88137e-02
113.9	2.87558e-02	2.86343e-02	2.86343e-02
114.0	2.86663e-02	2.85451e-02	2.85451e-02
114.1	2.85771e-02	2.85451e-02	2.85451e-02
114.2	2.84881e-02	2.83674e-02	2.83674e-02
114.3	2.83994e-02	2.83674e-02	2.83674e-02
114.4	2.83110e-02	2.81908e-02	2.81908e-02
114.5	2.82228e-02	2.81030e-02	2.81030e-02
114.6	2.81350e-02	2.81030e-02	2.81030e-02
114.7	2.80474e-02	2.79281e-02	2.79281e-02
114.8	2.79601e-02	2.79281e-02	2.79281e-02
114.9	2.78730e-02	2.77542e-02	2.77542e-02
115.0	2.77863e-02	2.76677e-02	2.76677e-02
115.1	2.76997e-02	2.76677e-02	2.76677e-02
115.2	2.76135e-02	2.74955e-02	2.74955e-02
115.3	2.75275e-02	2.74955e-02	2.74955e-02
115.4	2.74418e-02	2.73244e-02	2.73244e-02
115.5	2.73564e-02	2.72392e-02	2.72392e-02
115.6	2.72712e-02	2.72392e-02	2.72392e-02
115.7	2.71863e-02	2.70697e-02	2.70697e-02
115.8	2.71017e-02	2.70697e-02	2.70697e-02
115.9	2.70173e-02	2.69012e-02	2.69012e-02
116.0	2.69332e-02	2.68173e-02	2.68173e-02
116.1	2.68494e-02	2.68173e-02	2.68173e-02
116.2	2.67658e-02	2.66504e-02	2.66504e-02
116.3	2.66825e-02	2.66504e-02	2.66504e-02
116.4	2.65994e-02	2.64845e-02	2.64845e-02
116.5	2.65166e-02	2.64020e-02	2.64020e-02
116.6	2.64340e-02	2.64020e-02	2.64020e-02
116.7	2.63517e-02	2.62377e-02	2.62377e-02
116.8	2.62697e-02	2.62377e-02	2.62377e-02
116.9	2.61879e-02	2.60744e-02	2.60744e-02
117.0	2.61064e-02	2.59931e-02	2.59931e-02
117.1	2.60251e-02	2.59931e-02	2.59931e-02
117.2	2.59441e-02	2.58313e-02	2.58313e-02
117.3	2.58633e-02	2.58313e-02	2.58313e-02
117.4	2.57828e-02	2.56705e-02	2.56705e-02
117.5	2.57025e-02	2.55905e-02	2.55905e-02

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x	$A(x)$	P_{v1}	P_{v2}
117.6	2.56225e-02	2.55905e-02	2.55905e-02
117.7	2.55427e-02	2.54312e-02	2.54312e-02
117.8	2.54632e-02	2.54312e-02	2.54312e-02
117.9	2.53840e-02	2.52729e-02	2.52729e-02
118.0	2.53049e-02	2.51942e-02	2.51942e-02
118.1	2.52261e-02	2.51942e-02	2.51942e-02
118.2	2.51476e-02	2.50374e-02	2.50374e-02
118.3	2.50693e-02	2.50374e-02	2.50374e-02
118.4	2.49913e-02	2.48815e-02	2.48815e-02
118.5	2.49135e-02	2.48040e-02	2.48040e-02
118.6	2.48359e-02	2.48040e-02	2.48040e-02
118.7	2.47586e-02	2.46496e-02	2.46496e-02
118.8	2.46815e-02	2.46496e-02	2.46496e-02
118.9	2.46047e-02	2.44962e-02	2.44962e-02
119.0	2.45281e-02	2.44198e-02	2.44198e-02
119.1	2.44517e-02	2.44198e-02	2.44198e-02
119.2	2.43756e-02	2.42678e-02	2.42678e-02
119.3	2.42997e-02	2.42678e-02	2.42678e-02
119.4	2.42241e-02	2.41168e-02	2.41168e-02
119.5	2.41486e-02	2.40416e-02	2.40416e-02
119.6	2.40735e-02	2.40416e-02	2.40416e-02
119.7	2.39985e-02	2.38920e-02	2.38920e-02
119.8	2.39238e-02	2.38920e-02	2.38920e-02
119.9	2.38493e-02	2.37433e-02	2.37433e-02
120.0	2.37751e-02	2.36692e-02	2.36692e-02
120.1	2.37011e-02	2.36692e-02	2.36692e-02
120.2	2.36273e-02	2.35219e-02	2.35219e-02
120.3	2.35537e-02	2.35219e-02	2.35219e-02
120.4	2.34804e-02	2.33755e-02	2.33755e-02
120.5	2.34073e-02	2.33027e-02	2.33027e-02
120.6	2.33344e-02	2.33027e-02	2.33027e-02
120.7	2.32618e-02	2.31576e-02	2.31576e-02
120.8	2.31894e-02	2.31576e-02	2.31576e-02
120.9	2.31172e-02	2.30135e-02	2.30135e-02
121.0	2.30452e-02	2.29418e-02	2.29418e-02
121.1	2.29734e-02	2.29418e-02	2.29418e-02
121.2	2.29019e-02	2.27990e-02	2.27990e-02
121.3	2.28306e-02	2.27990e-02	2.27990e-02
121.4	2.27595e-02	2.26571e-02	2.26571e-02
121.5	2.26887e-02	2.25864e-02	2.25864e-02

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x	$A(x)$	P_{v1}	P_{v2}
121.6	2.26181e-02	2.25864e-02	2.25864e-02
121.7	2.25476e-02	2.24459e-02	2.24459e-02
121.8	2.24774e-02	2.24459e-02	2.24459e-02
121.9	2.24075e-02	2.23062e-02	2.23062e-02
122.0	2.23377e-02	2.22366e-02	2.22366e-02
122.1	2.22682e-02	2.22366e-02	2.22366e-02
122.2	2.21988e-02	2.20982e-02	2.20982e-02
122.3	2.21297e-02	2.20982e-02	2.20982e-02
122.4	2.20608e-02	2.19607e-02	2.19607e-02
122.5	2.19922e-02	2.18922e-02	2.18922e-02
122.6	2.19237e-02	2.18922e-02	2.18922e-02
122.7	2.18554e-02	2.17560e-02	2.17560e-02
122.8	2.17874e-02	2.17560e-02	2.17560e-02
122.9	2.17196e-02	2.16206e-02	2.16206e-02
123.0	2.16520e-02	2.15532e-02	2.15532e-02
123.1	2.15845e-02	2.15532e-02	2.15532e-02
123.2	2.15173e-02	2.14190e-02	2.14190e-02
123.3	2.14504e-02	2.14190e-02	2.14190e-02
123.4	2.13836e-02	2.12857e-02	2.12857e-02
123.5	2.13170e-02	2.12194e-02	2.12194e-02
123.6	2.12506e-02	2.12194e-02	2.12194e-02
123.7	2.11845e-02	2.10873e-02	2.10873e-02
123.8	2.11185e-02	2.10873e-02	2.10873e-02
123.9	2.10528e-02	2.09560e-02	2.09560e-02
124.0	2.09872e-02	2.08907e-02	2.08907e-02
124.1	2.09219e-02	2.08907e-02	2.08907e-02
124.2	2.08568e-02	2.07607e-02	2.07607e-02
124.3	2.07918e-02	2.07607e-02	2.07607e-02
124.4	2.07271e-02	2.06315e-02	2.06315e-02
124.5	2.06626e-02	2.05672e-02	2.05672e-02
124.6	2.05983e-02	2.05672e-02	2.05672e-02
124.7	2.05341e-02	2.04391e-02	2.04391e-02
124.8	2.04702e-02	2.04391e-02	2.04391e-02
124.9	2.04065e-02	2.03119e-02	2.03119e-02
125.0	2.03429e-02	2.02486e-02	2.02486e-02
125.1	2.02796e-02	2.02486e-02	2.02486e-02
125.2	2.02165e-02	2.01226e-02	2.01226e-02
125.3	2.01535e-02	2.01226e-02	2.01226e-02
125.4	2.00908e-02	1.99973e-02	1.99973e-02
125.5	2.00283e-02	1.99350e-02	1.99350e-02

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x	$A(x)$	P_{v1}	P_{v2}
125.6	1.99659e-02	1.99350e-02	1.99350e-02
125.7	1.99037e-02	1.98109e-02	1.98109e-02
125.8	1.98418e-02	1.98109e-02	1.98109e-02
125.9	1.97800e-02	1.96876e-02	1.96876e-02
126.0	1.97184e-02	1.96263e-02	1.96263e-02
126.1	1.96570e-02	1.96263e-02	1.96263e-02
126.2	1.95958e-02	1.95041e-02	1.95041e-02
126.3	1.95348e-02	1.95041e-02	1.95041e-02
126.4	1.94740e-02	1.93827e-02	1.93827e-02
126.5	1.94134e-02	1.93223e-02	1.93223e-02
126.6	1.93530e-02	1.93223e-02	1.93223e-02
126.7	1.92927e-02	1.92020e-02	1.92020e-02
126.8	1.92326e-02	1.92020e-02	1.92020e-02
126.9	1.91728e-02	1.90825e-02	1.90825e-02
127.0	1.91131e-02	1.90230e-02	1.90230e-02
127.1	1.90536e-02	1.90230e-02	1.90230e-02
127.2	1.89943e-02	1.89046e-02	1.89046e-02
127.3	1.89351e-02	1.89046e-02	1.89046e-02
127.4	1.88762e-02	1.87870e-02	1.87870e-02
127.5	1.88174e-02	1.87284e-02	1.87284e-02
127.6	1.87588e-02	1.87284e-02	1.87284e-02
127.7	1.87004e-02	1.86118e-02	1.86118e-02
127.8	1.86422e-02	1.86118e-02	1.86118e-02
127.9	1.85842e-02	1.84960e-02	1.84960e-02
128.0	1.85263e-02	1.84384e-02	1.84384e-02
128.1	1.84686e-02	1.83809e-02	1.83809e-02
128.2	1.84111e-02	1.83809e-02	1.83809e-02
128.3	1.83538e-02	1.82665e-02	1.82665e-02
128.4	1.82967e-02	1.82095e-02	1.82095e-02
128.5	1.82397e-02	1.81528e-02	1.81528e-02
128.6	1.81829e-02	1.80962e-02	1.80962e-02
128.7	1.81263e-02	1.80962e-02	1.80962e-02
128.8	1.80699e-02	1.79836e-02	1.79836e-02
128.9	1.80136e-02	1.79275e-02	1.79275e-02
129.0	1.79576e-02	1.78716e-02	1.78716e-02
129.1	1.79017e-02	1.78159e-02	1.78159e-02
129.2	1.78459e-02	1.78159e-02	1.78159e-02
129.3	1.77904e-02	1.77050e-02	1.77050e-02
129.4	1.77350e-02	1.76499e-02	1.76499e-02
129.5	1.76798e-02	1.75948e-02	1.75948e-02

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x	$A(x)$	P_{v1}	P_{v2}
129.6	1.76247e-02	1.75400e-02	1.75400e-02
129.7	1.75699e-02	1.75400e-02	1.75400e-02
129.8	1.75152e-02	1.74308e-02	1.74308e-02
129.9	1.74606e-02	1.73765e-02	1.73765e-02
130.0	1.74063e-02	1.73223e-02	1.73223e-02
130.1	1.73521e-02	1.72683e-02	1.72683e-02
130.2	1.72981e-02	1.72683e-02	1.72683e-02
130.3	1.72442e-02	1.71609e-02	1.71609e-02
130.4	1.71905e-02	1.71074e-02	1.71074e-02
130.5	1.71370e-02	1.70541e-02	1.70541e-02
130.6	1.70837e-02	1.70009e-02	1.70009e-02
130.7	1.70305e-02	1.70009e-02	1.70009e-02
130.8	1.69775e-02	1.68951e-02	1.68951e-02
130.9	1.69246e-02	1.68424e-02	1.68424e-02
131.0	1.68719e-02	1.67899e-02	1.67899e-02
131.1	1.68194e-02	1.67376e-02	1.67376e-02
131.2	1.67670e-02	1.67376e-02	1.67376e-02
131.3	1.67148e-02	1.66334e-02	1.66334e-02
131.4	1.66628e-02	1.65816e-02	1.65816e-02
131.5	1.66109e-02	1.65299e-02	1.65299e-02
131.6	1.65592e-02	1.64784e-02	1.64784e-02
131.7	1.65076e-02	1.64784e-02	1.64784e-02
131.8	1.64563e-02	1.63758e-02	1.63758e-02
131.9	1.64050e-02	1.63248e-02	1.63248e-02
132.0	1.63539e-02	1.62739e-02	1.62739e-02
132.1	1.63030e-02	1.62231e-02	1.62231e-02
132.2	1.62523e-02	1.62231e-02	1.62231e-02
132.3	1.62017e-02	1.61222e-02	1.61222e-02
132.4	1.61512e-02	1.60719e-02	1.60719e-02
132.5	1.61010e-02	1.60218e-02	1.60218e-02
132.6	1.60508e-02	1.59719e-02	1.59719e-02
132.7	1.60009e-02	1.59719e-02	1.59719e-02
132.8	1.59511e-02	1.58725e-02	1.58725e-02
132.9	1.59014e-02	1.58230e-02	1.58230e-02
133.0	1.58519e-02	1.57737e-02	1.57737e-02
133.1	1.58025e-02	1.57245e-02	1.57245e-02
133.2	1.57533e-02	1.57245e-02	1.57245e-02
133.3	1.57043e-02	1.56266e-02	1.56266e-02
133.4	1.56554e-02	1.55779e-02	1.55779e-02
133.5	1.56067e-02	1.55294e-02	1.55294e-02

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x	$A(x)$	P_{v1}	P_{v2}
133.6	1.55581e-02	1.54810e-02	1.54810e-02
133.7	1.55096e-02	1.54810e-02	1.54810e-02
133.8	1.54614e-02	1.53846e-02	1.53846e-02
133.9	1.54132e-02	1.53367e-02	1.53367e-02
134.0	1.53652e-02	1.52889e-02	1.52889e-02
134.1	1.53174e-02	1.52412e-02	1.52412e-02
134.2	1.52697e-02	1.52412e-02	1.52412e-02
134.3	1.52222e-02	1.51464e-02	1.51464e-02
134.4	1.51748e-02	1.50991e-02	1.50991e-02
134.5	1.51275e-02	1.50521e-02	1.50521e-02
134.6	1.50805e-02	1.50052e-02	1.50052e-02
134.7	1.50335e-02	1.50052e-02	1.50052e-02
134.8	1.49867e-02	1.49118e-02	1.49118e-02
134.9	1.49400e-02	1.48653e-02	1.48653e-02
135.0	1.48935e-02	1.48190e-02	1.48190e-02
135.1	1.48472e-02	1.47728e-02	1.47728e-02
135.2	1.48009e-02	1.47728e-02	1.47728e-02
135.3	1.47549e-02	1.46808e-02	1.46808e-02
135.4	1.47089e-02	1.46351e-02	1.46351e-02
135.5	1.46631e-02	1.45894e-02	1.45894e-02
135.6	1.46175e-02	1.45440e-02	1.45440e-02
135.7	1.45720e-02	1.45440e-02	1.45440e-02
135.8	1.45266e-02	1.44534e-02	1.44534e-02
135.9	1.44814e-02	1.44084e-02	1.44084e-02
136.0	1.44363e-02	1.43635e-02	1.43635e-02
136.1	1.43914e-02	1.43187e-02	1.43187e-02
136.2	1.43466e-02	1.43187e-02	1.43187e-02
136.3	1.43019e-02	1.42296e-02	1.42296e-02
136.4	1.42574e-02	1.41852e-02	1.41852e-02
136.5	1.42130e-02	1.41410e-02	1.41410e-02
136.6	1.41687e-02	1.40969e-02	1.40969e-02
136.7	1.41246e-02	1.40969e-02	1.40969e-02
136.8	1.40807e-02	1.40092e-02	1.40092e-02
136.9	1.40368e-02	1.39655e-02	1.39655e-02
137.0	1.39931e-02	1.39220e-02	1.39220e-02
137.1	1.39496e-02	1.38786e-02	1.38786e-02
137.2	1.39061e-02	1.38786e-02	1.38786e-02
137.3	1.38628e-02	1.37922e-02	1.37922e-02
137.4	1.38197e-02	1.37492e-02	1.37492e-02
137.5	1.37767e-02	1.37064e-02	1.37064e-02

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x	$A(x)$	P_{v1}	P_{v2}
137.6	1.37338e-02	1.36637e-02	1.36637e-02
137.7	1.36910e-02	1.36637e-02	1.36637e-02
137.8	1.36484e-02	1.35786e-02	1.35786e-02
137.9	1.36059e-02	1.35363e-02	1.35363e-02
138.0	1.35635e-02	1.34941e-02	1.34941e-02
138.1	1.35213e-02	1.34520e-02	1.34520e-02
138.2	1.34792e-02	1.34520e-02	1.34520e-02
138.3	1.34373e-02	1.33683e-02	1.33683e-02
138.4	1.33954e-02	1.33267e-02	1.33267e-02
138.5	1.33537e-02	1.32851e-02	1.32851e-02
138.6	1.33121e-02	1.32437e-02	1.32437e-02
138.7	1.32707e-02	1.32437e-02	1.32437e-02
138.8	1.32294e-02	1.31613e-02	1.31613e-02
138.9	1.31882e-02	1.31203e-02	1.31203e-02
139.0	1.31471e-02	1.30794e-02	1.30794e-02
139.1	1.31062e-02	1.30386e-02	1.30386e-02
139.2	1.30654e-02	1.30386e-02	1.30386e-02
139.3	1.30247e-02	1.29574e-02	1.29574e-02
139.4	1.29842e-02	1.29170e-02	1.29170e-02
139.5	1.29438e-02	1.28768e-02	1.28768e-02
139.6	1.29035e-02	1.28366e-02	1.28366e-02
139.7	1.28633e-02	1.28366e-02	1.28366e-02
139.8	1.28232e-02	1.27568e-02	1.27568e-02
139.9	1.27833e-02	1.27170e-02	1.27170e-02
140.0	1.27435e-02	1.26774e-02	1.26774e-02
140.1	1.27039e-02	1.26378e-02	1.26378e-02
140.2	1.26643e-02	1.26378e-02	1.26378e-02
140.3	1.26249e-02	1.25592e-02	1.25592e-02
140.4	1.25856e-02	1.25200e-02	1.25200e-02
140.5	1.25464e-02	1.24810e-02	1.24810e-02
140.6	1.25073e-02	1.24421e-02	1.24421e-02
140.7	1.24684e-02	1.24421e-02	1.24421e-02
140.8	1.24296e-02	1.23647e-02	1.23647e-02
140.9	1.23909e-02	1.23261e-02	1.23261e-02
141.0	1.23523e-02	1.22877e-02	1.22877e-02
141.1	1.23139e-02	1.22494e-02	1.22494e-02
141.2	1.22755e-02	1.22494e-02	1.22494e-02
141.3	1.22373e-02	1.21732e-02	1.21732e-02
141.4	1.21992e-02	1.21352e-02	1.21352e-02
141.5	1.21612e-02	1.20974e-02	1.20974e-02

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x	$A(x)$	P_{v1}	P_{v2}
141.6	1.21234e-02	1.20597e-02	1.20597e-02
141.7	1.20856e-02	1.20597e-02	1.20597e-02
141.8	1.20480e-02	1.19846e-02	1.19846e-02
141.9	1.20105e-02	1.19473e-02	1.19473e-02
142.0	1.19731e-02	1.19100e-02	1.19100e-02
142.1	1.19358e-02	1.18729e-02	1.18729e-02
142.2	1.18987e-02	1.18729e-02	1.18729e-02
142.3	1.18616e-02	1.17990e-02	1.17990e-02
142.4	1.18247e-02	1.17622e-02	1.17622e-02
142.5	1.17879e-02	1.17256e-02	1.17256e-02
142.6	1.17512e-02	1.16890e-02	1.16890e-02
142.7	1.17146e-02	1.16890e-02	1.16890e-02
142.8	1.16781e-02	1.16163e-02	1.16163e-02
142.9	1.16418e-02	1.15801e-02	1.15801e-02
143.0	1.16055e-02	1.15440e-02	1.15440e-02
143.1	1.15694e-02	1.15080e-02	1.15080e-02
143.2	1.15334e-02	1.15080e-02	1.15080e-02
143.3	1.14975e-02	1.14364e-02	1.14364e-02
143.4	1.14617e-02	1.14007e-02	1.14007e-02
143.5	1.14260e-02	1.13652e-02	1.13652e-02
143.6	1.13904e-02	1.13298e-02	1.13298e-02
143.7	1.13550e-02	1.13298e-02	1.13298e-02
143.8	1.13196e-02	1.12592e-02	1.12592e-02
143.9	1.12844e-02	1.12241e-02	1.12241e-02
144.0	1.12492e-02	1.11892e-02	1.11892e-02
144.1	1.12142e-02	1.11543e-02	1.11543e-02
144.2	1.11793e-02	1.11543e-02	1.11543e-02
144.3	1.11445e-02	1.10849e-02	1.10849e-02
144.4	1.11098e-02	1.10503e-02	1.10503e-02
144.5	1.10752e-02	1.10159e-02	1.10159e-02
144.6	1.10407e-02	1.09815e-02	1.09815e-02
144.7	1.10064e-02	1.09815e-02	1.09815e-02
144.8	1.09721e-02	1.09132e-02	1.09132e-02
144.9	1.09379e-02	1.08792e-02	1.08792e-02
145.0	1.09039e-02	1.08453e-02	1.08453e-02
145.1	1.08699e-02	1.08114e-02	1.08114e-02
145.2	1.08361e-02	1.08114e-02	1.08114e-02
145.3	1.08024e-02	1.07442e-02	1.07442e-02
145.4	1.07687e-02	1.07107e-02	1.07107e-02
145.5	1.07352e-02	1.06773e-02	1.06773e-02

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x	$A(x)$	P_{v1}	P_{v2}
145.6	1.07018e-02	1.06440e-02	1.06440e-02
145.7	1.06685e-02	1.06440e-02	1.06440e-02
145.8	1.06353e-02	1.05778e-02	1.05778e-02
145.9	1.06022e-02	1.05448e-02	1.05448e-02
146.0	1.05691e-02	1.05119e-02	1.05119e-02
146.1	1.05362e-02	1.04791e-02	1.04791e-02
146.2	1.05034e-02	1.04791e-02	1.04791e-02
146.3	1.04707e-02	1.04139e-02	1.04139e-02
146.4	1.04381e-02	1.03815e-02	1.03815e-02
146.5	1.04057e-02	1.03491e-02	1.03491e-02
146.6	1.03733e-02	1.03169e-02	1.03169e-02
146.7	1.03410e-02	1.03169e-02	1.03169e-02
146.8	1.03088e-02	1.02526e-02	1.02526e-02
146.9	1.02767e-02	1.02207e-02	1.02207e-02
147.0	1.02447e-02	1.01888e-02	1.01888e-02
147.1	1.02128e-02	1.01571e-02	1.01571e-02
147.2	1.01810e-02	1.01571e-02	1.01571e-02
147.3	1.01493e-02	1.00938e-02	1.00938e-02
147.4	1.01177e-02	1.00624e-02	1.00624e-02
147.5	1.00862e-02	1.00310e-02	1.00310e-02
147.6	1.00548e-02	9.99975e-03	9.99975e-03
147.7	1.00235e-02	9.99975e-03	9.99975e-03
147.8	9.99229e-03	9.93751e-03	9.93751e-03
147.9	9.96118e-03	9.90654e-03	9.90654e-03
148.0	9.93017e-03	9.87566e-03	9.87566e-03
148.1	9.89926e-03	9.84488e-03	9.84488e-03
148.2	9.86844e-03	9.84488e-03	9.84488e-03
148.3	9.83772e-03	9.78360e-03	9.78360e-03
148.4	9.80709e-03	9.75311e-03	9.75311e-03
148.5	9.77656e-03	9.72271e-03	9.72271e-03
148.6	9.74612e-03	9.69241e-03	9.69241e-03
148.7	9.71578e-03	9.69241e-03	9.69241e-03
148.8	9.68553e-03	9.63208e-03	9.63208e-03
148.9	9.65538e-03	9.60206e-03	9.60206e-03
149.0	9.62532e-03	9.57213e-03	9.57213e-03
149.1	9.59535e-03	9.54229e-03	9.54229e-03
149.2	9.56548e-03	9.54229e-03	9.54229e-03
149.3	9.53570e-03	9.48290e-03	9.48290e-03
149.4	9.50602e-03	9.45334e-03	9.45334e-03
149.5	9.47642e-03	9.42388e-03	9.42388e-03

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x	$A(x)$	P_{v1}	P_{v2}
149.6	9.44692e-03	9.39450e-03	9.39450e-03
149.7	9.41751e-03	9.39450e-03	9.39450e-03
149.8	9.38819e-03	9.33603e-03	9.33603e-03
149.9	9.35896e-03	9.30693e-03	9.30693e-03
150.0	9.32983e-03	9.27792e-03	9.27792e-03
150.1	9.30078e-03	9.24900e-03	9.24900e-03
150.2	9.27183e-03	9.24900e-03	9.24900e-03
150.3	9.24296e-03	9.19143e-03	9.19143e-03
150.4	9.21419e-03	9.16279e-03	9.16279e-03
150.5	9.18550e-03	9.13423e-03	9.13423e-03
150.6	9.15690e-03	9.10576e-03	9.10576e-03
150.7	9.12840e-03	9.10576e-03	9.10576e-03
150.8	9.09998e-03	9.04908e-03	9.04908e-03
150.9	9.07165e-03	9.02087e-03	9.02087e-03
151.0	9.04340e-03	8.99276e-03	8.99276e-03
151.1	9.01525e-03	8.96473e-03	8.96473e-03
151.2	8.98718e-03	8.96473e-03	8.96473e-03
151.3	8.95921e-03	8.90893e-03	8.90893e-03
151.4	8.93131e-03	8.88116e-03	8.88116e-03
151.5	8.90351e-03	8.85348e-03	8.85348e-03
151.6	8.87579e-03	8.82588e-03	8.82588e-03
151.7	8.84816e-03	8.82588e-03	8.82588e-03
151.8	8.82061e-03	8.77095e-03	8.77095e-03
151.9	8.79315e-03	8.74361e-03	8.74361e-03
152.0	8.76578e-03	8.71636e-03	8.71636e-03
152.1	8.73849e-03	8.68919e-03	8.68919e-03
152.2	8.71128e-03	8.68919e-03	8.68919e-03
152.3	8.68416e-03	8.63511e-03	8.63511e-03
152.4	8.65713e-03	8.60819e-03	8.60819e-03
152.5	8.63017e-03	8.58136e-03	8.58136e-03
152.6	8.60331e-03	8.55461e-03	8.55461e-03
152.7	8.57652e-03	8.55461e-03	8.55461e-03
152.8	8.54982e-03	8.50137e-03	8.50137e-03
152.9	8.52320e-03	8.47487e-03	8.47487e-03
153.0	8.49667e-03	8.44845e-03	8.44845e-03
153.1	8.47022e-03	8.42212e-03	8.42212e-03
153.2	8.44385e-03	8.42212e-03	8.42212e-03
153.3	8.41756e-03	8.36970e-03	8.36970e-03
153.4	8.39136e-03	8.34361e-03	8.34361e-03
153.5	8.36523e-03	8.31761e-03	8.31761e-03

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x	$A(x)$	P_{v1}	P_{v2}
153.6	8.33919e-03	8.31761e-03	8.31761e-03
153.7	8.31323e-03	8.31761e-03	8.31761e-03
153.8	8.28735e-03	8.24007e-03	8.24007e-03
153.9	8.26155e-03	8.21439e-03	8.21439e-03
154.0	8.23583e-03	8.18879e-03	8.18879e-03
154.1	8.21019e-03	8.18879e-03	8.18879e-03
154.2	8.18463e-03	8.18879e-03	8.18879e-03
154.3	8.15915e-03	8.11245e-03	8.11245e-03
154.4	8.13374e-03	8.08717e-03	8.08717e-03
154.5	8.10842e-03	8.06196e-03	8.06196e-03
154.6	8.08318e-03	8.06196e-03	8.06196e-03
154.7	8.05801e-03	8.06196e-03	8.06196e-03
154.8	8.03293e-03	7.98681e-03	7.98681e-03
154.9	8.00792e-03	7.96191e-03	7.96191e-03
155.0	7.98299e-03	7.93710e-03	7.93710e-03
155.1	7.95814e-03	7.93710e-03	7.93710e-03
155.2	7.93336e-03	7.93710e-03	7.93710e-03
155.3	7.90866e-03	7.86311e-03	7.86311e-03
155.4	7.88404e-03	7.83860e-03	7.83860e-03
155.5	7.85950e-03	7.81417e-03	7.81417e-03
155.6	7.83503e-03	7.81417e-03	7.81417e-03
155.7	7.81064e-03	7.81417e-03	7.81417e-03
155.8	7.78632e-03	7.74133e-03	7.74133e-03
155.9	7.76208e-03	7.71720e-03	7.71720e-03
156.0	7.73791e-03	7.69314e-03	7.69314e-03
156.1	7.71382e-03	7.69314e-03	7.69314e-03
156.2	7.68981e-03	7.69314e-03	7.69314e-03
156.3	7.66587e-03	7.62143e-03	7.62143e-03
156.4	7.64200e-03	7.59768e-03	7.59768e-03
156.5	7.61821e-03	7.57399e-03	7.57399e-03
156.6	7.59450e-03	7.57399e-03	7.57399e-03
156.7	7.57085e-03	7.57399e-03	7.57399e-03
156.8	7.54728e-03	7.50339e-03	7.50339e-03
156.9	7.52379e-03	7.48000e-03	7.48000e-03
157.0	7.50036e-03	7.45669e-03	7.45669e-03
157.1	7.47701e-03	7.45669e-03	7.45669e-03
157.2	7.45374e-03	7.45669e-03	7.45669e-03
157.3	7.43053e-03	7.38718e-03	7.38718e-03
157.4	7.40740e-03	7.36416e-03	7.36416e-03
157.5	7.38434e-03	7.34120e-03	7.34120e-03

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x	$A(x)$	P_{v1}	P_{v2}
157.6	7.36135e-03	7.34120e-03	7.34120e-03
157.7	7.33843e-03	7.34120e-03	7.34120e-03
157.8	7.31558e-03	7.27277e-03	7.27277e-03
157.9	7.29281e-03	7.25010e-03	7.25010e-03
158.0	7.27011e-03	7.22750e-03	7.22750e-03
158.1	7.24747e-03	7.22750e-03	7.22750e-03
158.2	7.22491e-03	7.22750e-03	7.22750e-03
158.3	7.20242e-03	7.16013e-03	7.16013e-03
158.4	7.17999e-03	7.13781e-03	7.13781e-03
158.5	7.15764e-03	7.11557e-03	7.11557e-03
158.6	7.13536e-03	7.11557e-03	7.11557e-03
158.7	7.11314e-03	7.11557e-03	7.11557e-03
158.8	7.09100e-03	7.04924e-03	7.04924e-03
158.9	7.06892e-03	7.02726e-03	7.02726e-03
159.0	7.04692e-03	7.00536e-03	7.00536e-03
159.1	7.02498e-03	7.00536e-03	7.00536e-03
159.2	7.00311e-03	7.00536e-03	7.00536e-03
159.3	6.98131e-03	6.94006e-03	6.94006e-03
159.4	6.95957e-03	6.91843e-03	6.91843e-03
159.5	6.93790e-03	6.89686e-03	6.89686e-03
159.6	6.91630e-03	6.89686e-03	6.89686e-03
159.7	6.89477e-03	6.89686e-03	6.89686e-03
159.8	6.87331e-03	6.83257e-03	6.83257e-03
159.9	6.85191e-03	6.81128e-03	6.81128e-03
160.0	6.83058e-03	6.79005e-03	6.79005e-03
160.1	6.80931e-03	6.79005e-03	6.79005e-03
160.2	6.78811e-03	6.79005e-03	6.79005e-03
160.3	6.76698e-03	6.72675e-03	6.72675e-03
160.4	6.74591e-03	6.70578e-03	6.70578e-03
160.5	6.72491e-03	6.68488e-03	6.68488e-03
160.6	6.70398e-03	6.68488e-03	6.68488e-03
160.7	6.68311e-03	6.68488e-03	6.68488e-03
160.8	6.66230e-03	6.62257e-03	6.62257e-03
160.9	6.64156e-03	6.60193e-03	6.60193e-03
161.0	6.62088e-03	6.58135e-03	6.58135e-03
161.1	6.60027e-03	6.58135e-03	6.58135e-03
161.2	6.57972e-03	6.58135e-03	6.58135e-03
161.3	6.55924e-03	6.52000e-03	6.52000e-03
161.4	6.53882e-03	6.49968e-03	6.49968e-03
161.5	6.51846e-03	6.47942e-03	6.47942e-03

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x	$A(x)$	P_{v1}	P_{v2}
161.6	6.49817e-03	6.47942e-03	6.47942e-03
161.7	6.47794e-03	6.47942e-03	6.47942e-03
161.8	6.45777e-03	6.41902e-03	6.41902e-03
161.9	6.43767e-03	6.39901e-03	6.39901e-03
162.0	6.41762e-03	6.37907e-03	6.37907e-03
162.1	6.39764e-03	6.37907e-03	6.37907e-03
162.2	6.37773e-03	6.37907e-03	6.37907e-03
162.3	6.35787e-03	6.31960e-03	6.31960e-03
162.4	6.33808e-03	6.29991e-03	6.29991e-03
162.5	6.31835e-03	6.28027e-03	6.28027e-03
162.6	6.29868e-03	6.28027e-03	6.28027e-03
162.7	6.27907e-03	6.28027e-03	6.28027e-03
162.8	6.25952e-03	6.22173e-03	6.22173e-03
162.9	6.24003e-03	6.20233e-03	6.20233e-03
163.0	6.22061e-03	6.18300e-03	6.18300e-03
163.1	6.20124e-03	6.18300e-03	6.18300e-03
163.2	6.18193e-03	6.18300e-03	6.18300e-03
163.3	6.16269e-03	6.12537e-03	6.12537e-03
163.4	6.14350e-03	6.10627e-03	6.10627e-03
163.5	6.12438e-03	6.08724e-03	6.08724e-03
163.6	6.10531e-03	6.08724e-03	6.08724e-03
163.7	6.08630e-03	6.08724e-03	6.08724e-03
163.8	6.06735e-03	6.03050e-03	6.03050e-03
163.9	6.04847e-03	6.01170e-03	6.01170e-03
164.0	6.02964e-03	5.99296e-03	5.99296e-03
164.1	6.01086e-03	5.99296e-03	5.99296e-03
164.2	5.99215e-03	5.99296e-03	5.99296e-03
164.3	5.97350e-03	5.93710e-03	5.93710e-03
164.4	5.95490e-03	5.91859e-03	5.91859e-03
164.5	5.93636e-03	5.90014e-03	5.90014e-03
164.6	5.91788e-03	5.90014e-03	5.90014e-03
164.7	5.89946e-03	5.90014e-03	5.90014e-03
164.8	5.88109e-03	5.84515e-03	5.84515e-03
164.9	5.86278e-03	5.82693e-03	5.82693e-03
165.0	5.84453e-03	5.80876e-03	5.80876e-03
165.1	5.82633e-03	5.80876e-03	5.80876e-03
165.2	5.80819e-03	5.80876e-03	5.80876e-03
165.3	5.79011e-03	5.75462e-03	5.75462e-03
165.4	5.77209e-03	5.73668e-03	5.73668e-03
165.5	5.75412e-03	5.71880e-03	5.71880e-03

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x	$A(x)$	P_{v1}	P_{v2}
165.6	5.73620e-03	5.71880e-03	5.71880e-03
165.7	5.71834e-03	5.71880e-03	5.71880e-03
165.8	5.70054e-03	5.66549e-03	5.66549e-03
165.9	5.68279e-03	5.64783e-03	5.64783e-03
166.0	5.66510e-03	5.63023e-03	5.63023e-03
166.1	5.64747e-03	5.63023e-03	5.63023e-03
166.2	5.62988e-03	5.63023e-03	5.63023e-03
166.3	5.61236e-03	5.57774e-03	5.57774e-03
166.4	5.59489e-03	5.56036e-03	5.56036e-03
166.5	5.57747e-03	5.54303e-03	5.54303e-03
166.6	5.56010e-03	5.54303e-03	5.54303e-03
166.7	5.54279e-03	5.54303e-03	5.54303e-03
166.8	5.52554e-03	5.49136e-03	5.49136e-03
166.9	5.50834e-03	5.47424e-03	5.47424e-03
167.0	5.49119e-03	5.45718e-03	5.45718e-03
167.1	5.47409e-03	5.45718e-03	5.45718e-03
167.2	5.45705e-03	5.45718e-03	5.45718e-03
167.3	5.44006e-03	5.40631e-03	5.40631e-03
167.4	5.42312e-03	5.38946e-03	5.38946e-03
167.5	5.40624e-03	5.37266e-03	5.37266e-03
167.6	5.38941e-03	5.37266e-03	5.37266e-03
167.7	5.37263e-03	5.37266e-03	5.37266e-03
167.8	5.35591e-03	5.32258e-03	5.32258e-03
167.9	5.33923e-03	5.30599e-03	5.30599e-03
168.0	5.32261e-03	5.28945e-03	5.28945e-03
168.1	5.30604e-03	5.28945e-03	5.28945e-03
168.2	5.28952e-03	5.28945e-03	5.28945e-03
168.3	5.27305e-03	5.24014e-03	5.24014e-03
168.4	5.25664e-03	5.22381e-03	5.22381e-03
168.5	5.24027e-03	5.20753e-03	5.20753e-03
168.6	5.22396e-03	5.20753e-03	5.20753e-03
168.7	5.20769e-03	5.20753e-03	5.20753e-03
168.8	5.19148e-03	5.15898e-03	5.15898e-03
168.9	5.17532e-03	5.14290e-03	5.14290e-03
169.0	5.15921e-03	5.12687e-03	5.12687e-03
169.1	5.14315e-03	5.12687e-03	5.12687e-03
169.2	5.12713e-03	5.12687e-03	5.12687e-03
169.3	5.11117e-03	5.07908e-03	5.07908e-03
169.4	5.09526e-03	5.06325e-03	5.06325e-03
169.5	5.07940e-03	5.04747e-03	5.04747e-03

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x	$A(x)$	P_{v1}	P_{v2}
169.6	5.06358e-03	5.04747e-03	5.04747e-03
169.7	5.04782e-03	5.04747e-03	5.04747e-03
169.8	5.03211e-03	5.00042e-03	5.00042e-03
169.9	5.01644e-03	4.98483e-03	4.98483e-03
170.0	5.00082e-03	4.96930e-03	4.96930e-03
170.1	4.98525e-03	4.96930e-03	4.96930e-03
170.2	4.96973e-03	4.96930e-03	4.96930e-03
170.3	4.95426e-03	4.92297e-03	4.92297e-03
170.4	4.93884e-03	4.90763e-03	4.90763e-03
170.5	4.92346e-03	4.89233e-03	4.89233e-03
170.6	4.90813e-03	4.89233e-03	4.89233e-03
170.7	4.89285e-03	4.89233e-03	4.89233e-03
170.8	4.87762e-03	4.84673e-03	4.84673e-03
170.9	4.86244e-03	4.83162e-03	4.83162e-03
171.0	4.84730e-03	4.81656e-03	4.81656e-03
171.1	4.83221e-03	4.81656e-03	4.81656e-03
171.2	4.81716e-03	4.81656e-03	4.81656e-03
171.3	4.80217e-03	4.77166e-03	4.77166e-03
171.4	4.78722e-03	4.75679e-03	4.75679e-03
171.5	4.77231e-03	4.74196e-03	4.74196e-03
171.6	4.75746e-03	4.74196e-03	4.74196e-03
171.7	4.74265e-03	4.74196e-03	4.74196e-03
171.8	4.72788e-03	4.69776e-03	4.69776e-03
171.9	4.71316e-03	4.68312e-03	4.68312e-03
172.0	4.69849e-03	4.66852e-03	4.66852e-03
172.1	4.68386e-03	4.66852e-03	4.66852e-03
172.2	4.66928e-03	4.66852e-03	4.66852e-03
172.3	4.65474e-03	4.62500e-03	4.62500e-03
172.4	4.64025e-03	4.61059e-03	4.61059e-03
172.5	4.62581e-03	4.59621e-03	4.59621e-03
172.6	4.61140e-03	4.59621e-03	4.59621e-03
172.7	4.59705e-03	4.59621e-03	4.59621e-03
172.8	4.58274e-03	4.55337e-03	4.55337e-03
172.9	4.56847e-03	4.53918e-03	4.53918e-03
173.0	4.55425e-03	4.52503e-03	4.52503e-03
173.1	4.54007e-03	4.52503e-03	4.52503e-03
173.2	4.52593e-03	4.52503e-03	4.52503e-03
173.3	4.51184e-03	4.48285e-03	4.48285e-03
173.4	4.49780e-03	4.46888e-03	4.46888e-03
173.5	4.48380e-03	4.45495e-03	4.45495e-03

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x	$A(x)$	P_{v1}	P_{v2}
173.6	4.46984e-03	4.45495e-03	4.45495e-03
173.7	4.45592e-03	4.45495e-03	4.45495e-03
173.8	4.44205e-03	4.41342e-03	4.41342e-03
173.9	4.42822e-03	4.39966e-03	4.39966e-03
174.0	4.41443e-03	4.38595e-03	4.38595e-03
174.1	4.40069e-03	4.38595e-03	4.38595e-03
174.2	4.38699e-03	4.38595e-03	4.38595e-03
174.3	4.37333e-03	4.34506e-03	4.34506e-03
174.4	4.35972e-03	4.33152e-03	4.33152e-03
174.5	4.34614e-03	4.31802e-03	4.31802e-03
174.6	4.33261e-03	4.31802e-03	4.31802e-03
174.7	4.31913e-03	4.31802e-03	4.31802e-03
174.8	4.30568e-03	4.27777e-03	4.27777e-03
174.9	4.29227e-03	4.26444e-03	4.26444e-03
175.0	4.27891e-03	4.25114e-03	4.25114e-03
175.1	4.26559e-03	4.25114e-03	4.25114e-03
175.2	4.25231e-03	4.25114e-03	4.25114e-03
175.3	4.23907e-03	4.21152e-03	4.21152e-03
175.4	4.22588e-03	4.19839e-03	4.19839e-03
175.5	4.21272e-03	4.18530e-03	4.18530e-03
175.6	4.19960e-03	4.18530e-03	4.18530e-03
175.7	4.18653e-03	4.18530e-03	4.18530e-03
175.8	4.17350e-03	4.14629e-03	4.14629e-03
175.9	4.16050e-03	4.13337e-03	4.13337e-03
176.0	4.14755e-03	4.12048e-03	4.12048e-03
176.1	4.13464e-03	4.12048e-03	4.12048e-03
176.2	4.12177e-03	4.12048e-03	4.12048e-03
176.3	4.10893e-03	4.08207e-03	4.08207e-03
176.4	4.09614e-03	4.06935e-03	4.06935e-03
176.5	4.08339e-03	4.05666e-03	4.05666e-03
176.6	4.07068e-03	4.05666e-03	4.05666e-03
176.7	4.05801e-03	4.05666e-03	4.05666e-03
176.8	4.04537e-03	4.01885e-03	4.01885e-03
176.9	4.03278e-03	4.00632e-03	4.00632e-03
177.0	4.02022e-03	3.99384e-03	3.99384e-03
177.1	4.00771e-03	3.99384e-03	3.99384e-03
177.2	3.99523e-03	3.99384e-03	3.99384e-03
177.3	3.98279e-03	3.95661e-03	3.95661e-03
177.4	3.97039e-03	3.94427e-03	3.94427e-03
177.5	3.95803e-03	3.93198e-03	3.93198e-03

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x	$A(x)$	P_{v1}	P_{v2}
177.6	3.94571e-03	3.93198e-03	3.93198e-03
177.7	3.93343e-03	3.93198e-03	3.93198e-03
177.8	3.92118e-03	3.89533e-03	3.89533e-03
177.9	3.90897e-03	3.88319e-03	3.88319e-03
178.0	3.89680e-03	3.87108e-03	3.87108e-03
178.1	3.88467e-03	3.87108e-03	3.87108e-03
178.2	3.87258e-03	3.87108e-03	3.87108e-03
178.3	3.86052e-03	3.83500e-03	3.83500e-03
178.4	3.84850e-03	3.82304e-03	3.82304e-03
178.5	3.83652e-03	3.81113e-03	3.81113e-03
178.6	3.82458e-03	3.81113e-03	3.81113e-03
178.7	3.81267e-03	3.81113e-03	3.81113e-03
178.8	3.80080e-03	3.77560e-03	3.77560e-03
178.9	3.78897e-03	3.76383e-03	3.76383e-03
179.0	3.77717e-03	3.75210e-03	3.75210e-03
179.1	3.76541e-03	3.75210e-03	3.75210e-03
179.2	3.75369e-03	3.75210e-03	3.75210e-03
179.3	3.74201e-03	3.71713e-03	3.71713e-03
179.4	3.73036e-03	3.70554e-03	3.70554e-03
179.5	3.71874e-03	3.69399e-03	3.69399e-03
179.6	3.70717e-03	3.69399e-03	3.69399e-03
179.7	3.69562e-03	3.69399e-03	3.69399e-03
179.8	3.68412e-03	3.65956e-03	3.65956e-03
179.9	3.67265e-03	3.64815e-03	3.64815e-03
180.0	3.66122e-03	3.63678e-03	3.63678e-03
180.1	3.64982e-03	3.63678e-03	3.63678e-03
180.2	3.63845e-03	3.63678e-03	3.63678e-03
180.3	3.62713e-03	3.60288e-03	3.60288e-03
180.4	3.61584e-03	3.59165e-03	3.59165e-03
180.5	3.60458e-03	3.58045e-03	3.58045e-03
180.6	3.59336e-03	3.58045e-03	3.58045e-03
180.7	3.58217e-03	3.58045e-03	3.58045e-03
180.8	3.57102e-03	3.54708e-03	3.54708e-03
180.9	3.55990e-03	3.53602e-03	3.53602e-03
181.0	3.54882e-03	3.52500e-03	3.52500e-03
181.1	3.53777e-03	3.52500e-03	3.52500e-03
181.2	3.52676e-03	3.52500e-03	3.52500e-03
181.3	3.51578e-03	3.49214e-03	3.49214e-03
181.4	3.50483e-03	3.48126e-03	3.48126e-03
181.5	3.49392e-03	3.47040e-03	3.47040e-03

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x	$A(x)$	P_{v1}	P_{v2}
181.6	3.48304e-03	3.47040e-03	3.47040e-03
181.7	3.47220e-03	3.47040e-03	3.47040e-03
181.8	3.46139e-03	3.43806e-03	3.43806e-03
181.9	3.45061e-03	3.42734e-03	3.42734e-03
182.0	3.43987e-03	3.41666e-03	3.41666e-03
182.1	3.42916e-03	3.41666e-03	3.41666e-03
182.2	3.41849e-03	3.41666e-03	3.41666e-03
182.3	3.40784e-03	3.38481e-03	3.38481e-03
182.4	3.39723e-03	3.37426e-03	3.37426e-03
182.5	3.38666e-03	3.36374e-03	3.36374e-03
182.6	3.37611e-03	3.36374e-03	3.36374e-03
182.7	3.36560e-03	3.36374e-03	3.36374e-03
182.8	3.35513e-03	3.33238e-03	3.33238e-03
182.9	3.34468e-03	3.32200e-03	3.32200e-03
183.0	3.33427e-03	3.31164e-03	3.31164e-03
183.1	3.32389e-03	3.31164e-03	3.31164e-03
183.2	3.31354e-03	3.31164e-03	3.31164e-03
183.3	3.30322e-03	3.28077e-03	3.28077e-03
183.4	3.29294e-03	3.27055e-03	3.27055e-03
183.5	3.28269e-03	3.26035e-03	3.26035e-03
183.6	3.27247e-03	3.26035e-03	3.26035e-03
183.7	3.26228e-03	3.26035e-03	3.26035e-03
183.8	3.25212e-03	3.22996e-03	3.22996e-03
183.9	3.24200e-03	3.21989e-03	3.21989e-03
184.0	3.23191e-03	3.20986e-03	3.20986e-03
184.1	3.22185e-03	3.20986e-03	3.20986e-03
184.2	3.21181e-03	3.20986e-03	3.20986e-03
184.3	3.20182e-03	3.17994e-03	3.17994e-03
184.4	3.19185e-03	3.17002e-03	3.17002e-03
184.5	3.18191e-03	3.16014e-03	3.16014e-03
184.6	3.17201e-03	3.16014e-03	3.16014e-03
184.7	3.16213e-03	3.16014e-03	3.16014e-03
184.8	3.15229e-03	3.13069e-03	3.13069e-03
184.9	3.14247e-03	3.12093e-03	3.12093e-03
185.0	3.13269e-03	3.11120e-03	3.11120e-03
185.1	3.12294e-03	3.11120e-03	3.11120e-03
185.2	3.11321e-03	3.11120e-03	3.11120e-03
185.3	3.10352e-03	3.08220e-03	3.08220e-03
185.4	3.09386e-03	3.07259e-03	3.07259e-03
185.5	3.08423e-03	3.06301e-03	3.06301e-03

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x	$A(x)$	P_{v1}	P_{v2}
185.6	3.07463e-03	3.06301e-03	3.06301e-03
185.7	3.06505e-03	3.06301e-03	3.06301e-03
185.8	3.05551e-03	3.03446e-03	3.03446e-03
185.9	3.04600e-03	3.02500e-03	3.02500e-03
186.0	3.03652e-03	3.01557e-03	3.01557e-03
186.1	3.02706e-03	3.01557e-03	3.01557e-03
186.2	3.01764e-03	3.01557e-03	3.01557e-03
186.3	3.00824e-03	2.98746e-03	2.98746e-03
186.4	2.99888e-03	2.97815e-03	2.97815e-03
186.5	2.98954e-03	2.96887e-03	2.96887e-03
186.6	2.98024e-03	2.96887e-03	2.96887e-03
186.7	2.97096e-03	2.96887e-03	2.96887e-03
186.8	2.96171e-03	2.94120e-03	2.94120e-03
186.9	2.95249e-03	2.93203e-03	2.93203e-03
187.0	2.94330e-03	2.92289e-03	2.92289e-03
187.1	2.93413e-03	2.92289e-03	2.92289e-03
187.2	2.92500e-03	2.92289e-03	2.92289e-03
187.3	2.91589e-03	2.89564e-03	2.89564e-03
187.4	2.90681e-03	2.88662e-03	2.88662e-03
187.5	2.89777e-03	2.87762e-03	2.87762e-03
187.6	2.88874e-03	2.87762e-03	2.87762e-03
187.7	2.87975e-03	2.87762e-03	2.87762e-03
187.8	2.87079e-03	2.85080e-03	2.85080e-03
187.9	2.86185e-03	2.84191e-03	2.84191e-03
188.0	2.85294e-03	2.83305e-03	2.83305e-03
188.1	2.84406e-03	2.83305e-03	2.83305e-03
188.2	2.83520e-03	2.83305e-03	2.83305e-03
188.3	2.82638e-03	2.80664e-03	2.80664e-03
188.4	2.81758e-03	2.79789e-03	2.79789e-03
188.5	2.80881e-03	2.78917e-03	2.78917e-03
188.6	2.80006e-03	2.78917e-03	2.78917e-03
188.7	2.79134e-03	2.78917e-03	2.78917e-03
188.8	2.78265e-03	2.76317e-03	2.76317e-03
188.9	2.77399e-03	2.75456e-03	2.75456e-03
189.0	2.76535e-03	2.74598e-03	2.74598e-03
189.1	2.75675e-03	2.74598e-03	2.74598e-03
189.2	2.74816e-03	2.74598e-03	2.74598e-03
189.3	2.73961e-03	2.72038e-03	2.72038e-03
189.4	2.73108e-03	2.71190e-03	2.71190e-03
189.5	2.72258e-03	2.70345e-03	2.70345e-03

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x	$A(x)$	P_{v1}	P_{v2}
189.6	2.71410e-03	2.70345e-03	2.70345e-03
189.7	2.70565e-03	2.70345e-03	2.70345e-03
189.8	2.69723e-03	2.67825e-03	2.67825e-03
189.9	2.68883e-03	2.66990e-03	2.66990e-03
190.0	2.68046e-03	2.66158e-03	2.66158e-03
190.1	2.67211e-03	2.66158e-03	2.66158e-03
190.2	2.66380e-03	2.66158e-03	2.66158e-03
190.3	2.65550e-03	2.63677e-03	2.63677e-03
190.4	2.64724e-03	2.62855e-03	2.62855e-03
190.5	2.63899e-03	2.62035e-03	2.62035e-03
190.6	2.63078e-03	2.62035e-03	2.62035e-03
190.7	2.62259e-03	2.62035e-03	2.62035e-03
190.8	2.61442e-03	2.59593e-03	2.59593e-03
190.9	2.60628e-03	2.58784e-03	2.58784e-03
191.0	2.59817e-03	2.57977e-03	2.57977e-03
191.1	2.59008e-03	2.57977e-03	2.57977e-03
191.2	2.58202e-03	2.57977e-03	2.57977e-03
191.3	2.57398e-03	2.55572e-03	2.55572e-03
191.4	2.56597e-03	2.54776e-03	2.54776e-03
191.5	2.55798e-03	2.53982e-03	2.53982e-03
191.6	2.55001e-03	2.53982e-03	2.53982e-03
191.7	2.54208e-03	2.53982e-03	2.53982e-03
191.8	2.53416e-03	2.51614e-03	2.51614e-03
191.9	2.52627e-03	2.50830e-03	2.50830e-03
192.0	2.51841e-03	2.50048e-03	2.50048e-03
192.1	2.51057e-03	2.50048e-03	2.50048e-03
192.2	2.50275e-03	2.50048e-03	2.50048e-03
192.3	2.49496e-03	2.47717e-03	2.47717e-03
192.4	2.48719e-03	2.46945e-03	2.46945e-03
192.5	2.47945e-03	2.46175e-03	2.46175e-03
192.6	2.47173e-03	2.46175e-03	2.46175e-03
192.7	2.46403e-03	2.46175e-03	2.46175e-03
192.8	2.45636e-03	2.43881e-03	2.43881e-03
192.9	2.44872e-03	2.43120e-03	2.43120e-03
193.0	2.44109e-03	2.42363e-03	2.42363e-03
193.1	2.43349e-03	2.42363e-03	2.42363e-03
193.2	2.42592e-03	2.42363e-03	2.42363e-03
193.3	2.41837e-03	2.40103e-03	2.40103e-03
193.4	2.41084e-03	2.39355e-03	2.39355e-03
193.5	2.40333e-03	2.38609e-03	2.38609e-03

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x	$A(x)$	P_{v1}	P_{v2}
193.6	2.39585e-03	2.38609e-03	2.38609e-03
193.7	2.38839e-03	2.38609e-03	2.38609e-03
193.8	2.38095e-03	2.36385e-03	2.36385e-03
193.9	2.37354e-03	2.35648e-03	2.35648e-03
194.0	2.36615e-03	2.34913e-03	2.34913e-03
194.1	2.35879e-03	2.34913e-03	2.34913e-03
194.2	2.35144e-03	2.34913e-03	2.34913e-03
194.3	2.34412e-03	2.32724e-03	2.32724e-03
194.4	2.33682e-03	2.31998e-03	2.31998e-03
194.5	2.32955e-03	2.31275e-03	2.31275e-03
194.6	2.32230e-03	2.31275e-03	2.31275e-03
194.7	2.31507e-03	2.31275e-03	2.31275e-03
194.8	2.30786e-03	2.29119e-03	2.29119e-03
194.9	2.30068e-03	2.28405e-03	2.28405e-03
195.0	2.29351e-03	2.27693e-03	2.27693e-03
195.1	2.28637e-03	2.27693e-03	2.27693e-03
195.2	2.27925e-03	2.27693e-03	2.27693e-03
195.3	2.27216e-03	2.25571e-03	2.25571e-03
195.4	2.26508e-03	2.24868e-03	2.24868e-03
195.5	2.25803e-03	2.24167e-03	2.24167e-03
195.6	2.25100e-03	2.24167e-03	2.24167e-03
195.7	2.24400e-03	2.24167e-03	2.24167e-03
195.8	2.23701e-03	2.22077e-03	2.22077e-03
195.9	2.23005e-03	2.21385e-03	2.21385e-03
196.0	2.22310e-03	2.20695e-03	2.20695e-03
196.1	2.21618e-03	2.20695e-03	2.20695e-03
196.2	2.20928e-03	2.20695e-03	2.20695e-03
196.3	2.20240e-03	2.18638e-03	2.18638e-03
196.4	2.19555e-03	2.17956e-03	2.17956e-03
196.5	2.18871e-03	2.17277e-03	2.17277e-03
196.6	2.18190e-03	2.17277e-03	2.17277e-03
196.7	2.17511e-03	2.17277e-03	2.17277e-03
196.8	2.16833e-03	2.15251e-03	2.15251e-03
196.9	2.16158e-03	2.14580e-03	2.14580e-03
197.0	2.15485e-03	2.13912e-03	2.13912e-03
197.1	2.14815e-03	2.13912e-03	2.13912e-03
197.2	2.14146e-03	2.13912e-03	2.13912e-03
197.3	2.13479e-03	2.11918e-03	2.11918e-03
197.4	2.12815e-03	2.11257e-03	2.11257e-03
197.5	2.12152e-03	2.10599e-03	2.10599e-03

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x	$A(x)$	P_{v1}	P_{v2}
197.6	2.11492e-03	2.10599e-03	2.10599e-03
197.7	2.10833e-03	2.10599e-03	2.10599e-03
197.8	2.10177e-03	2.08635e-03	2.08635e-03
197.9	2.09522e-03	2.07985e-03	2.07985e-03
198.0	2.08870e-03	2.07337e-03	2.07337e-03
198.1	2.08220e-03	2.07337e-03	2.07337e-03
198.2	2.07572e-03	2.07337e-03	2.07337e-03
198.3	2.06925e-03	2.05404e-03	2.05404e-03
198.4	2.06281e-03	2.04764e-03	2.04764e-03
198.5	2.05639e-03	2.04126e-03	2.04126e-03
198.6	2.04999e-03	2.04126e-03	2.04126e-03
198.7	2.04361e-03	2.04126e-03	2.04126e-03
198.8	2.03724e-03	2.02223e-03	2.02223e-03
198.9	2.03090e-03	2.01593e-03	2.01593e-03
199.0	2.02458e-03	2.00964e-03	2.00964e-03
199.1	2.01828e-03	2.00964e-03	2.00964e-03
199.2	2.01199e-03	2.00964e-03	2.00964e-03
199.3	2.00573e-03	1.99091e-03	1.99091e-03
199.4	1.99948e-03	1.98470e-03	1.98470e-03
199.5	1.99326e-03	1.97852e-03	1.97852e-03
199.6	1.98705e-03	1.97852e-03	1.97852e-03
199.7	1.98087e-03	1.97852e-03	1.97852e-03
199.8	1.97470e-03	1.96007e-03	1.96007e-03
199.9	1.96855e-03	1.95396e-03	1.95396e-03
200.0	1.96243e-03	1.94787e-03	1.94787e-03

Table B.7.3: Output for Problem 7.1-Po210

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.00000e+00	0.00000e+00	0.00000e+00
0.1	8.83196e-04	9.36069e-04	9.36069e-04
0.2	2.94822e-03	2.95413e-03	2.95413e-03
0.3	5.10398e-03	2.95413e-03	2.95413e-03
0.4	7.02249e-03	6.98085e-03	6.98085e-03
0.5	8.65051e-03	8.60826e-03	8.60826e-03
0.6	1.00091e-02	8.60826e-03	8.60826e-03
0.7	1.11353e-02	8.60826e-03	8.60826e-03
0.8	1.20654e-02	1.20491e-02	1.20491e-02
0.9	1.28317e-02	1.28265e-02	1.28265e-02

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x	$A(x)$	P_{v1}	P_{v2}
1.0	1.34612e-02	1.34672e-02	1.34672e-02
1.1	1.39769e-02	1.39937e-02	1.39937e-02
1.2	1.43978e-02	1.39937e-02	1.39937e-02
1.3	1.47397e-02	1.47761e-02	1.47761e-02
1.4	1.50159e-02	1.47761e-02	1.47761e-02
1.5	1.52374e-02	1.52905e-02	1.52905e-02
1.6	1.54133e-02	1.54736e-02	1.54736e-02
1.7	1.55514e-02	1.54736e-02	1.54736e-02
1.8	1.56579e-02	1.57303e-02	1.57303e-02
1.9	1.57381e-02	1.57303e-02	1.57303e-02
2.0	1.57966e-02	1.58786e-02	1.58786e-02
2.1	1.58369e-02	1.59228e-02	1.59228e-02
2.2	1.58621e-02	1.59514e-02	1.59514e-02
2.3	1.58748e-02	1.59514e-02	1.59514e-02
2.4	1.58771e-02	1.59514e-02	1.59514e-02
2.5	1.58707e-02	1.59676e-02	1.59676e-02
2.6	1.58571e-02	1.59558e-02	1.59558e-02
2.7	1.58376e-02	1.59378e-02	1.59378e-02
2.8	1.58132e-02	1.59378e-02	1.59378e-02
2.9	1.57847e-02	1.59378e-02	1.59378e-02
3.0	1.57528e-02	1.58562e-02	1.58562e-02
3.1	1.57181e-02	1.58222e-02	1.58222e-02
3.2	1.56811e-02	1.57858e-02	1.57858e-02
3.3	1.56423e-02	1.57858e-02	1.57858e-02
3.4	1.56018e-02	1.57858e-02	1.57858e-02
3.5	1.55602e-02	1.56658e-02	1.56658e-02
3.6	1.55175e-02	1.56233e-02	1.56233e-02
3.7	1.54740e-02	1.55798e-02	1.55798e-02
3.8	1.54298e-02	1.55798e-02	1.55798e-02
3.9	1.53851e-02	1.55798e-02	1.55798e-02
4.0	1.53400e-02	1.54456e-02	1.54456e-02
4.1	1.52945e-02	1.54456e-02	1.54456e-02
4.2	1.52488e-02	1.53541e-02	1.53541e-02
4.3	1.52029e-02	1.53080e-02	1.53080e-02
4.4	1.51569e-02	1.52618e-02	1.52618e-02
4.5	1.51109e-02	1.52155e-02	1.52155e-02
4.6	1.50647e-02	1.52155e-02	1.52155e-02
4.7	1.50186e-02	1.51227e-02	1.51227e-02
4.8	1.49725e-02	1.51227e-02	1.51227e-02
4.9	1.49264e-02	1.50299e-02	1.50299e-02

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x	$A(x)$	P_{v1}	P_{v2}
5.0	1.48804e-02	1.49835e-02	1.49835e-02
5.1	1.48344e-02	1.49835e-02	1.49835e-02
5.2	1.47886e-02	1.48910e-02	1.48910e-02
5.3	1.47428e-02	1.48910e-02	1.48910e-02
5.4	1.46971e-02	1.47989e-02	1.47989e-02
5.5	1.46515e-02	1.47530e-02	1.47530e-02
5.6	1.46060e-02	1.47530e-02	1.47530e-02
5.7	1.45607e-02	1.46614e-02	1.46614e-02
5.8	1.45155e-02	1.46614e-02	1.46614e-02
5.9	1.44704e-02	1.45704e-02	1.45704e-02
6.0	1.44254e-02	1.45251e-02	1.45251e-02
6.1	1.43805e-02	1.45251e-02	1.45251e-02
6.2	1.43358e-02	1.44348e-02	1.44348e-02
6.3	1.42912e-02	1.44348e-02	1.44348e-02
6.4	1.42468e-02	1.43450e-02	1.43450e-02
6.5	1.42024e-02	1.43004e-02	1.43004e-02
6.6	1.41583e-02	1.43004e-02	1.43004e-02
6.7	1.41142e-02	1.42114e-02	1.42114e-02
6.8	1.40703e-02	1.42114e-02	1.42114e-02
6.9	1.40265e-02	1.41230e-02	1.41230e-02
7.0	1.39828e-02	1.40790e-02	1.40790e-02
7.1	1.39393e-02	1.40790e-02	1.40790e-02
7.2	1.38959e-02	1.39914e-02	1.39914e-02
7.3	1.38527e-02	1.39914e-02	1.39914e-02
7.4	1.38095e-02	1.39043e-02	1.39043e-02
7.5	1.37666e-02	1.38610e-02	1.38610e-02
7.6	1.37237e-02	1.38610e-02	1.38610e-02
7.7	1.36810e-02	1.37747e-02	1.37747e-02
7.8	1.36384e-02	1.37747e-02	1.37747e-02
7.9	1.35959e-02	1.36890e-02	1.36890e-02
8.0	1.35536e-02	1.36463e-02	1.36463e-02
8.1	1.35114e-02	1.36038e-02	1.36038e-02
8.2	1.34693e-02	1.36038e-02	1.36038e-02
8.3	1.34274e-02	1.35191e-02	1.35191e-02
8.4	1.33856e-02	1.34770e-02	1.34770e-02
8.5	1.33439e-02	1.34350e-02	1.34350e-02
8.6	1.33024e-02	1.33931e-02	1.33931e-02
8.7	1.32610e-02	1.33931e-02	1.33931e-02
8.8	1.32197e-02	1.33097e-02	1.33097e-02
8.9	1.31785e-02	1.32682e-02	1.32682e-02

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x	$A(x)$	P_{v1}	P_{v2}
9.0	1.31375e-02	1.32269e-02	1.32269e-02
9.1	1.30966e-02	1.31857e-02	1.31857e-02
9.2	1.30558e-02	1.31857e-02	1.31857e-02
9.3	1.30152e-02	1.31036e-02	1.31036e-02
9.4	1.29747e-02	1.30627e-02	1.30627e-02
9.5	1.29343e-02	1.30220e-02	1.30220e-02
9.6	1.28940e-02	1.30220e-02	1.30220e-02
9.7	1.28539e-02	1.30220e-02	1.30220e-02
9.8	1.28139e-02	1.29006e-02	1.29006e-02
9.9	1.27740e-02	1.28604e-02	1.28604e-02
10.0	1.27342e-02	1.28204e-02	1.28204e-02
10.1	1.26946e-02	1.28204e-02	1.28204e-02
10.2	1.26550e-02	1.28204e-02	1.28204e-02
10.3	1.26156e-02	1.27008e-02	1.27008e-02
10.4	1.25764e-02	1.26613e-02	1.26613e-02
10.5	1.25372e-02	1.26218e-02	1.26218e-02
10.6	1.24982e-02	1.26218e-02	1.26218e-02
10.7	1.24593e-02	1.26218e-02	1.26218e-02
10.8	1.24205e-02	1.25041e-02	1.25041e-02
10.9	1.23818e-02	1.24652e-02	1.24652e-02
11.0	1.23433e-02	1.24263e-02	1.24263e-02
11.1	1.23048e-02	1.24263e-02	1.24263e-02
11.2	1.22665e-02	1.24263e-02	1.24263e-02
11.3	1.22283e-02	1.23105e-02	1.23105e-02
11.4	1.21903e-02	1.22721e-02	1.22721e-02
11.5	1.21523e-02	1.22339e-02	1.22339e-02
11.6	1.21145e-02	1.22339e-02	1.22339e-02
11.7	1.20768e-02	1.22339e-02	1.22339e-02
11.8	1.20392e-02	1.21198e-02	1.21198e-02
11.9	1.20017e-02	1.20820e-02	1.20820e-02
12.0	1.19643e-02	1.20444e-02	1.20444e-02
12.1	1.19271e-02	1.20444e-02	1.20444e-02
12.2	1.18900e-02	1.20444e-02	1.20444e-02
12.3	1.18529e-02	1.19321e-02	1.19321e-02
12.4	1.18160e-02	1.18949e-02	1.18949e-02
12.5	1.17793e-02	1.18578e-02	1.18578e-02
12.6	1.17426e-02	1.18578e-02	1.18578e-02
12.7	1.17060e-02	1.18578e-02	1.18578e-02
12.8	1.16696e-02	1.17473e-02	1.17473e-02
12.9	1.16333e-02	1.17107e-02	1.17107e-02

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x	$A(x)$	P_{v1}	P_{v2}
13.0	1.15970e-02	1.16742e-02	1.16742e-02
13.1	1.15609e-02	1.16742e-02	1.16742e-02
13.2	1.15249e-02	1.16742e-02	1.16742e-02
13.3	1.14891e-02	1.15654e-02	1.15654e-02
13.4	1.14533e-02	1.15293e-02	1.15293e-02
13.5	1.14176e-02	1.14934e-02	1.14934e-02
13.6	1.13821e-02	1.14934e-02	1.14934e-02
13.7	1.13467e-02	1.14934e-02	1.14934e-02
13.8	1.13113e-02	1.13862e-02	1.13862e-02
13.9	1.12761e-02	1.13507e-02	1.13507e-02
14.0	1.12410e-02	1.13154e-02	1.13154e-02
14.1	1.12060e-02	1.13154e-02	1.13154e-02
14.2	1.11711e-02	1.13154e-02	1.13154e-02
14.3	1.11364e-02	1.12099e-02	1.12099e-02
14.4	1.11017e-02	1.11750e-02	1.11750e-02
14.5	1.10671e-02	1.11401e-02	1.11401e-02
14.6	1.10327e-02	1.11401e-02	1.11401e-02
14.7	1.09983e-02	1.11401e-02	1.11401e-02
14.8	1.09641e-02	1.10363e-02	1.10363e-02
14.9	1.09299e-02	1.10019e-02	1.10019e-02
15.0	1.08959e-02	1.09676e-02	1.09676e-02
15.1	1.08620e-02	1.09676e-02	1.09676e-02
15.2	1.08282e-02	1.09676e-02	1.09676e-02
15.3	1.07945e-02	1.08653e-02	1.08653e-02
15.4	1.07609e-02	1.08315e-02	1.08315e-02
15.5	1.07274e-02	1.07977e-02	1.07977e-02
15.6	1.06940e-02	1.07977e-02	1.07977e-02
15.7	1.06607e-02	1.07977e-02	1.07977e-02
15.8	1.06275e-02	1.06971e-02	1.06971e-02
15.9	1.05944e-02	1.06637e-02	1.06637e-02
16.0	1.05614e-02	1.06305e-02	1.06305e-02
16.1	1.05285e-02	1.05974e-02	1.05974e-02
16.2	1.04958e-02	1.05643e-02	1.05643e-02
16.3	1.04631e-02	1.05314e-02	1.05314e-02
16.4	1.04305e-02	1.05314e-02	1.05314e-02
16.5	1.03980e-02	1.04658e-02	1.04658e-02
16.6	1.03657e-02	1.04332e-02	1.04332e-02
16.7	1.03334e-02	1.04007e-02	1.04007e-02
16.8	1.03012e-02	1.03683e-02	1.03683e-02
16.9	1.02692e-02	1.03683e-02	1.03683e-02

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x	$A(x)$	P_{v1}	P_{v2}
17.0	1.02372e-02	1.03038e-02	1.03038e-02
17.1	1.02053e-02	1.02716e-02	1.02716e-02
17.2	1.01735e-02	1.02396e-02	1.02396e-02
17.3	1.01419e-02	1.02077e-02	1.02077e-02
17.4	1.01103e-02	1.02077e-02	1.02077e-02
17.5	1.00788e-02	1.01442e-02	1.01442e-02
17.6	1.00474e-02	1.01126e-02	1.01126e-02
17.7	1.00162e-02	1.00810e-02	1.00810e-02
17.8	9.98498e-03	1.00496e-02	1.00496e-02
17.9	9.95390e-03	1.00496e-02	1.00496e-02
18.0	9.92291e-03	9.98706e-03	9.98706e-03
18.1	9.89202e-03	9.95593e-03	9.95593e-03
18.2	9.86122e-03	9.92490e-03	9.92490e-03
18.3	9.83052e-03	9.89396e-03	9.89396e-03
18.4	9.79992e-03	9.89396e-03	9.89396e-03
18.5	9.76941e-03	9.83238e-03	9.83238e-03
18.6	9.73899e-03	9.80173e-03	9.80173e-03
18.7	9.70867e-03	9.77118e-03	9.77118e-03
18.8	9.67845e-03	9.74073e-03	9.74073e-03
18.9	9.64832e-03	9.74073e-03	9.74073e-03
19.0	9.61828e-03	9.68010e-03	9.68010e-03
19.1	9.58833e-03	9.64993e-03	9.64993e-03
19.2	9.55848e-03	9.64993e-03	9.64993e-03
19.3	9.52873e-03	9.58986e-03	9.58986e-03
19.4	9.49906e-03	9.58986e-03	9.58986e-03
19.5	9.46949e-03	9.53018e-03	9.53018e-03
19.6	9.44001e-03	9.50047e-03	9.50047e-03
19.7	9.41062e-03	9.50047e-03	9.50047e-03
19.8	9.38132e-03	9.44134e-03	9.44134e-03
19.9	9.35212e-03	9.44134e-03	9.44134e-03
20.0	9.32300e-03	9.38257e-03	9.38257e-03
20.1	9.29398e-03	9.35333e-03	9.35333e-03
20.2	9.26504e-03	9.35333e-03	9.35333e-03
20.3	9.23620e-03	9.29511e-03	9.29511e-03
20.4	9.20744e-03	9.29511e-03	9.29511e-03
20.5	9.17878e-03	9.23726e-03	9.23726e-03
20.6	9.15020e-03	9.20847e-03	9.20847e-03
20.7	9.12172e-03	9.20847e-03	9.20847e-03
20.8	9.09332e-03	9.15115e-03	9.15115e-03
20.9	9.06501e-03	9.15115e-03	9.15115e-03

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x	$A(x)$	P_{v1}	P_{v2}
21.0	9.03679e-03	9.09419e-03	9.09419e-03
21.1	9.00866e-03	9.06585e-03	9.06585e-03
21.2	8.98061e-03	9.06585e-03	9.06585e-03
21.3	8.95265e-03	9.00942e-03	9.00942e-03
21.4	8.92478e-03	9.00942e-03	9.00942e-03
21.5	8.89699e-03	8.95334e-03	8.95334e-03
21.6	8.86930e-03	8.92544e-03	8.92544e-03
21.7	8.84168e-03	8.92544e-03	8.92544e-03
21.8	8.81416e-03	8.86988e-03	8.86988e-03
21.9	8.78672e-03	8.86988e-03	8.86988e-03
22.0	8.75936e-03	8.81468e-03	8.81468e-03
22.1	8.73209e-03	8.78720e-03	8.78720e-03
22.2	8.70491e-03	8.78720e-03	8.78720e-03
22.3	8.67781e-03	8.73251e-03	8.73251e-03
22.4	8.65079e-03	8.73251e-03	8.73251e-03
22.5	8.62386e-03	8.67816e-03	8.67816e-03
22.6	8.59701e-03	8.65111e-03	8.65111e-03
22.7	8.57025e-03	8.65111e-03	8.65111e-03
22.8	8.54357e-03	8.59726e-03	8.59726e-03
22.9	8.51697e-03	8.59726e-03	8.59726e-03
23.0	8.49045e-03	8.54375e-03	8.54375e-03
23.1	8.46402e-03	8.51712e-03	8.51712e-03
23.2	8.43767e-03	8.51712e-03	8.51712e-03
23.3	8.41140e-03	8.46411e-03	8.46411e-03
23.4	8.38522e-03	8.46411e-03	8.46411e-03
23.5	8.35911e-03	8.41143e-03	8.41143e-03
23.6	8.33309e-03	8.38521e-03	8.38521e-03
23.7	8.30714e-03	8.38521e-03	8.38521e-03
23.8	8.28128e-03	8.33302e-03	8.33302e-03
23.9	8.25550e-03	8.33302e-03	8.33302e-03
24.0	8.22980e-03	8.28115e-03	8.28115e-03
24.1	8.20418e-03	8.25534e-03	8.25534e-03
24.2	8.17864e-03	8.25534e-03	8.25534e-03
24.3	8.15318e-03	8.20396e-03	8.20396e-03
24.4	8.12779e-03	8.20396e-03	8.20396e-03
24.5	8.10249e-03	8.15290e-03	8.15290e-03
24.6	8.07726e-03	8.12748e-03	8.12748e-03
24.7	8.05212e-03	8.12748e-03	8.12748e-03
24.8	8.02705e-03	8.07690e-03	8.07690e-03
24.9	8.00206e-03	8.07690e-03	8.07690e-03

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x	$A(x)$	P_{v1}	P_{v2}
25.0	7.97715e-03	8.02663e-03	8.02663e-03
25.1	7.95231e-03	8.00161e-03	8.00161e-03
25.2	7.92756e-03	8.00161e-03	8.00161e-03
25.3	7.90288e-03	7.95180e-03	7.95180e-03
25.4	7.87827e-03	7.95180e-03	7.95180e-03
25.5	7.85375e-03	7.90231e-03	7.90231e-03
25.6	7.82930e-03	7.87768e-03	7.87768e-03
25.7	7.80492e-03	7.87768e-03	7.87768e-03
25.8	7.78062e-03	7.82865e-03	7.82865e-03
25.9	7.75640e-03	7.82865e-03	7.82865e-03
26.0	7.73225e-03	7.77992e-03	7.77992e-03
26.1	7.70818e-03	7.75567e-03	7.75567e-03
26.2	7.68418e-03	7.75567e-03	7.75567e-03
26.3	7.66026e-03	7.70740e-03	7.70740e-03
26.4	7.63641e-03	7.70740e-03	7.70740e-03
26.5	7.61264e-03	7.65943e-03	7.65943e-03
26.6	7.58894e-03	7.63555e-03	7.63555e-03
26.7	7.56531e-03	7.63555e-03	7.63555e-03
26.8	7.54176e-03	7.58803e-03	7.58803e-03
26.9	7.51828e-03	7.58803e-03	7.58803e-03
27.0	7.49488e-03	7.54080e-03	7.54080e-03
27.1	7.47154e-03	7.51730e-03	7.51730e-03
27.2	7.44828e-03	7.51730e-03	7.51730e-03
27.3	7.42509e-03	7.47051e-03	7.47051e-03
27.4	7.40198e-03	7.47051e-03	7.47051e-03
27.5	7.37893e-03	7.42401e-03	7.42401e-03
27.6	7.35596e-03	7.40087e-03	7.40087e-03
27.7	7.33306e-03	7.40087e-03	7.40087e-03
27.8	7.31023e-03	7.35481e-03	7.35481e-03
27.9	7.28747e-03	7.35481e-03	7.35481e-03
28.0	7.26479e-03	7.30903e-03	7.30903e-03
28.1	7.24217e-03	7.28625e-03	7.28625e-03
28.2	7.21962e-03	7.28625e-03	7.28625e-03
28.3	7.19715e-03	7.24090e-03	7.24090e-03
28.4	7.17474e-03	7.24090e-03	7.24090e-03
28.5	7.15240e-03	7.19583e-03	7.19583e-03
28.6	7.13014e-03	7.17340e-03	7.17340e-03
28.7	7.10794e-03	7.17340e-03	7.17340e-03
28.8	7.08581e-03	7.12875e-03	7.12875e-03
28.9	7.06375e-03	7.12875e-03	7.12875e-03

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x	$A(x)$	P_{v1}	P_{v2}
29.0	7.04176e-03	7.08438e-03	7.08438e-03
29.1	7.01984e-03	7.06230e-03	7.06230e-03
29.2	6.99798e-03	7.06230e-03	7.06230e-03
29.3	6.97620e-03	7.01834e-03	7.01834e-03
29.4	6.95448e-03	7.01834e-03	7.01834e-03
29.5	6.93283e-03	6.97466e-03	6.97466e-03
29.6	6.91124e-03	6.95292e-03	6.95292e-03
29.7	6.88973e-03	6.95292e-03	6.95292e-03
29.8	6.86828e-03	6.90964e-03	6.90964e-03
29.9	6.84690e-03	6.90964e-03	6.90964e-03
30.0	6.82558e-03	6.86664e-03	6.86664e-03
30.1	6.80433e-03	6.84523e-03	6.84523e-03
30.2	6.78315e-03	6.84523e-03	6.84523e-03
30.3	6.76203e-03	6.80263e-03	6.80263e-03
30.4	6.74098e-03	6.80263e-03	6.80263e-03
30.5	6.71999e-03	6.76029e-03	6.76029e-03
30.6	6.69907e-03	6.73922e-03	6.73922e-03
30.7	6.67822e-03	6.73922e-03	6.73922e-03
30.8	6.65743e-03	6.69727e-03	6.69727e-03
30.9	6.63670e-03	6.69727e-03	6.69727e-03
31.0	6.61604e-03	6.65559e-03	6.65559e-03
31.1	6.59544e-03	6.63484e-03	6.63484e-03
31.2	6.57491e-03	6.63484e-03	6.63484e-03
31.3	6.55444e-03	6.59354e-03	6.59354e-03
31.4	6.53403e-03	6.59354e-03	6.59354e-03
31.5	6.51369e-03	6.55251e-03	6.55251e-03
31.6	6.49341e-03	6.53208e-03	6.53208e-03
31.7	6.47320e-03	6.53208e-03	6.53208e-03
31.8	6.45305e-03	6.49142e-03	6.49142e-03
31.9	6.43296e-03	6.49142e-03	6.49142e-03
32.0	6.41293e-03	6.45102e-03	6.45102e-03
32.1	6.39296e-03	6.43091e-03	6.43091e-03
32.2	6.37306e-03	6.41087e-03	6.41087e-03
32.3	6.35322e-03	6.41087e-03	6.41087e-03
32.4	6.33344e-03	6.37097e-03	6.37097e-03
32.5	6.31372e-03	6.35111e-03	6.35111e-03
32.6	6.29407e-03	6.33131e-03	6.33131e-03
32.7	6.27447e-03	6.31158e-03	6.31158e-03
32.8	6.25494e-03	6.31158e-03	6.31158e-03
32.9	6.23547e-03	6.27229e-03	6.27229e-03

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x	$A(x)$	P_{v1}	P_{v2}
33.0	6.21605e-03	6.25274e-03	6.25274e-03
33.1	6.19670e-03	6.23326e-03	6.23326e-03
33.2	6.17741e-03	6.21383e-03	6.21383e-03
33.3	6.15818e-03	6.21383e-03	6.21383e-03
33.4	6.13901e-03	6.17515e-03	6.17515e-03
33.5	6.11990e-03	6.15590e-03	6.15590e-03
33.6	6.10084e-03	6.13672e-03	6.13672e-03
33.7	6.08185e-03	6.11759e-03	6.11759e-03
33.8	6.06292e-03	6.11759e-03	6.11759e-03
33.9	6.04404e-03	6.07951e-03	6.07951e-03
34.0	6.02522e-03	6.06056e-03	6.06056e-03
34.1	6.00647e-03	6.04167e-03	6.04167e-03
34.2	5.98777e-03	6.02284e-03	6.02284e-03
34.3	5.96913e-03	6.02284e-03	6.02284e-03
34.4	5.95054e-03	5.98535e-03	5.98535e-03
34.5	5.93202e-03	5.96670e-03	5.96670e-03
34.6	5.91355e-03	5.94810e-03	5.94810e-03
34.7	5.89514e-03	5.92956e-03	5.92956e-03
34.8	5.87679e-03	5.92956e-03	5.92956e-03
34.9	5.85849e-03	5.89265e-03	5.89265e-03
35.0	5.84025e-03	5.87429e-03	5.87429e-03
35.1	5.82207e-03	5.85598e-03	5.85598e-03
35.2	5.80394e-03	5.83772e-03	5.83772e-03
35.3	5.78588e-03	5.83772e-03	5.83772e-03
35.4	5.76786e-03	5.80139e-03	5.80139e-03
35.5	5.74991e-03	5.78331e-03	5.78331e-03
35.6	5.73201e-03	5.76528e-03	5.76528e-03
35.7	5.71416e-03	5.74731e-03	5.74731e-03
35.8	5.69637e-03	5.74731e-03	5.74731e-03
35.9	5.67864e-03	5.71154e-03	5.71154e-03
36.0	5.66096e-03	5.69374e-03	5.69374e-03
36.1	5.64333e-03	5.67599e-03	5.67599e-03
36.2	5.62577e-03	5.65830e-03	5.65830e-03
36.3	5.60825e-03	5.65830e-03	5.65830e-03
36.4	5.59079e-03	5.62308e-03	5.62308e-03
36.5	5.57339e-03	5.60555e-03	5.60555e-03
36.6	5.55604e-03	5.58808e-03	5.58808e-03
36.7	5.53874e-03	5.57066e-03	5.57066e-03
36.8	5.52150e-03	5.57066e-03	5.57066e-03
36.9	5.50431e-03	5.53599e-03	5.53599e-03

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x	$A(x)$	P_{v1}	P_{v2}
37.0	5.48717e-03	5.51873e-03	5.51873e-03
37.1	5.47009e-03	5.50153e-03	5.50153e-03
37.2	5.45306e-03	5.48439e-03	5.48439e-03
37.3	5.43608e-03	5.48439e-03	5.48439e-03
37.4	5.41916e-03	5.45025e-03	5.45025e-03
37.5	5.40229e-03	5.43326e-03	5.43326e-03
37.6	5.38547e-03	5.41633e-03	5.41633e-03
37.7	5.36870e-03	5.39944e-03	5.39944e-03
37.8	5.35199e-03	5.39944e-03	5.39944e-03
37.9	5.33533e-03	5.36584e-03	5.36584e-03
38.0	5.31872e-03	5.34911e-03	5.34911e-03
38.1	5.30216e-03	5.33244e-03	5.33244e-03
38.2	5.28565e-03	5.31582e-03	5.31582e-03
38.3	5.26920e-03	5.31582e-03	5.31582e-03
38.4	5.25279e-03	5.31582e-03	5.31582e-03
38.5	5.23644e-03	5.26627e-03	5.26627e-03
38.6	5.22014e-03	5.24985e-03	5.24985e-03
38.7	5.20388e-03	5.23349e-03	5.23349e-03
38.8	5.18768e-03	5.23349e-03	5.23349e-03
38.9	5.17153e-03	5.23349e-03	5.23349e-03
39.0	5.15543e-03	5.18470e-03	5.18470e-03
39.1	5.13938e-03	5.16854e-03	5.16854e-03
39.2	5.12338e-03	5.15243e-03	5.15243e-03
39.3	5.10743e-03	5.15243e-03	5.15243e-03
39.4	5.09153e-03	5.15243e-03	5.15243e-03
39.5	5.07568e-03	5.10440e-03	5.10440e-03
39.6	5.05988e-03	5.08849e-03	5.08849e-03
39.7	5.04413e-03	5.07263e-03	5.07263e-03
39.8	5.02842e-03	5.07263e-03	5.07263e-03
39.9	5.01277e-03	5.07263e-03	5.07263e-03
40.0	4.99716e-03	5.02535e-03	5.02535e-03
40.1	4.98161e-03	5.00968e-03	5.00968e-03
40.2	4.96610e-03	4.99407e-03	4.99407e-03
40.3	4.95064e-03	4.99407e-03	4.99407e-03
40.4	4.93522e-03	4.99407e-03	4.99407e-03
40.5	4.91986e-03	4.94752e-03	4.94752e-03
40.6	4.90454e-03	4.93210e-03	4.93210e-03
40.7	4.88927e-03	4.91672e-03	4.91672e-03
40.8	4.87405e-03	4.91672e-03	4.91672e-03
40.9	4.85888e-03	4.91672e-03	4.91672e-03

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x	$A(x)$	P_{v1}	P_{v2}
41.0	4.84375e-03	4.87089e-03	4.87089e-03
41.1	4.82867e-03	4.85571e-03	4.85571e-03
41.2	4.81364e-03	4.84057e-03	4.84057e-03
41.3	4.79865e-03	4.84057e-03	4.84057e-03
41.4	4.78371e-03	4.84057e-03	4.84057e-03
41.5	4.76882e-03	4.79545e-03	4.79545e-03
41.6	4.75398e-03	4.78050e-03	4.78050e-03
41.7	4.73918e-03	4.76560e-03	4.76560e-03
41.8	4.72442e-03	4.76560e-03	4.76560e-03
41.9	4.70971e-03	4.76560e-03	4.76560e-03
42.0	4.69505e-03	4.72118e-03	4.72118e-03
42.1	4.68043e-03	4.70646e-03	4.70646e-03
42.2	4.66586e-03	4.69179e-03	4.69179e-03
42.3	4.65134e-03	4.69179e-03	4.69179e-03
42.4	4.63686e-03	4.69179e-03	4.69179e-03
42.5	4.62242e-03	4.64806e-03	4.64806e-03
42.6	4.60803e-03	4.63357e-03	4.63357e-03
42.7	4.59368e-03	4.61913e-03	4.61913e-03
42.8	4.57938e-03	4.61913e-03	4.61913e-03
42.9	4.56513e-03	4.61913e-03	4.61913e-03
43.0	4.55091e-03	4.57607e-03	4.57607e-03
43.1	4.53675e-03	4.56181e-03	4.56181e-03
43.2	4.52262e-03	4.54759e-03	4.54759e-03
43.3	4.50854e-03	4.54759e-03	4.54759e-03
43.4	4.49451e-03	4.54759e-03	4.54759e-03
43.5	4.48051e-03	4.50520e-03	4.50520e-03
43.6	4.46657e-03	4.49116e-03	4.49116e-03
43.7	4.45266e-03	4.47716e-03	4.47716e-03
43.8	4.43880e-03	4.47716e-03	4.47716e-03
43.9	4.42498e-03	4.47716e-03	4.47716e-03
44.0	4.41120e-03	4.43542e-03	4.43542e-03
44.1	4.39747e-03	4.42160e-03	4.42160e-03
44.2	4.38378e-03	4.40782e-03	4.40782e-03
44.3	4.37013e-03	4.40782e-03	4.40782e-03
44.4	4.35653e-03	4.40782e-03	4.40782e-03
44.5	4.34296e-03	4.36673e-03	4.36673e-03
44.6	4.32944e-03	4.35312e-03	4.35312e-03
44.7	4.31597e-03	4.33955e-03	4.33955e-03
44.8	4.30253e-03	4.33955e-03	4.33955e-03
44.9	4.28913e-03	4.33955e-03	4.33955e-03

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x	$A(x)$	P_{v1}	P_{v2}
45.0	4.27578e-03	4.29910e-03	4.29910e-03
45.1	4.26247e-03	4.28570e-03	4.28570e-03
45.2	4.24920e-03	4.27234e-03	4.27234e-03
45.3	4.23597e-03	4.27234e-03	4.27234e-03
45.4	4.22278e-03	4.27234e-03	4.27234e-03
45.5	4.20964e-03	4.23251e-03	4.23251e-03
45.6	4.19653e-03	4.21932e-03	4.21932e-03
45.7	4.18347e-03	4.20617e-03	4.20617e-03
45.8	4.17044e-03	4.20617e-03	4.20617e-03
45.9	4.15746e-03	4.20617e-03	4.20617e-03
46.0	4.14452e-03	4.16696e-03	4.16696e-03
46.1	4.13161e-03	4.15397e-03	4.15397e-03
46.2	4.11875e-03	4.14102e-03	4.14102e-03
46.3	4.10593e-03	4.14102e-03	4.14102e-03
46.4	4.09315e-03	4.14102e-03	4.14102e-03
46.5	4.08040e-03	4.10242e-03	4.10242e-03
46.6	4.06770e-03	4.08964e-03	4.08964e-03
46.7	4.05504e-03	4.07689e-03	4.07689e-03
46.8	4.04241e-03	4.07689e-03	4.07689e-03
46.9	4.02983e-03	4.07689e-03	4.07689e-03
47.0	4.01728e-03	4.03889e-03	4.03889e-03
47.1	4.00477e-03	4.02630e-03	4.02630e-03
47.2	3.99231e-03	4.01375e-03	4.01375e-03
47.3	3.97988e-03	4.01375e-03	4.01375e-03
47.4	3.96749e-03	4.01375e-03	4.01375e-03
47.5	3.95514e-03	3.97633e-03	3.97633e-03
47.6	3.94282e-03	3.96394e-03	3.96394e-03
47.7	3.93055e-03	3.95158e-03	3.95158e-03
47.8	3.91831e-03	3.95158e-03	3.95158e-03
47.9	3.90611e-03	3.95158e-03	3.95158e-03
48.0	3.89395e-03	3.91475e-03	3.91475e-03
48.1	3.88183e-03	3.90255e-03	3.90255e-03
48.2	3.86974e-03	3.89038e-03	3.89038e-03
48.3	3.85770e-03	3.89038e-03	3.89038e-03
48.4	3.84569e-03	3.89038e-03	3.89038e-03
48.5	3.83372e-03	3.85412e-03	3.85412e-03
48.6	3.82178e-03	3.84210e-03	3.84210e-03
48.7	3.80988e-03	3.83013e-03	3.83013e-03
48.8	3.79802e-03	3.83013e-03	3.83013e-03
48.9	3.78620e-03	3.83013e-03	3.83013e-03

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x	$A(x)$	P_{v1}	P_{v2}
49.0	3.77441e-03	3.79443e-03	3.79443e-03
49.1	3.76266e-03	3.78260e-03	3.78260e-03
49.2	3.75095e-03	3.77081e-03	3.77081e-03
49.3	3.73927e-03	3.77081e-03	3.77081e-03
49.4	3.72763e-03	3.77081e-03	3.77081e-03
49.5	3.71602e-03	3.73566e-03	3.73566e-03
49.6	3.70445e-03	3.72401e-03	3.72401e-03
49.7	3.69292e-03	3.71241e-03	3.71241e-03
49.8	3.68142e-03	3.71241e-03	3.71241e-03
49.9	3.66996e-03	3.71241e-03	3.71241e-03
50.0	3.65854e-03	3.67780e-03	3.67780e-03
50.1	3.64715e-03	3.66634e-03	3.66634e-03
50.2	3.63579e-03	3.65491e-03	3.65491e-03
50.3	3.62447e-03	3.65491e-03	3.65491e-03
50.4	3.61319e-03	3.65491e-03	3.65491e-03
50.5	3.60194e-03	3.62084e-03	3.62084e-03
50.6	3.59073e-03	3.60955e-03	3.60955e-03
50.7	3.57955e-03	3.59830e-03	3.59830e-03
50.8	3.56841e-03	3.59830e-03	3.59830e-03
50.9	3.55730e-03	3.59830e-03	3.59830e-03
51.0	3.54622e-03	3.56476e-03	3.56476e-03
51.1	3.53518e-03	3.55365e-03	3.55365e-03
51.2	3.52418e-03	3.54257e-03	3.54257e-03
51.3	3.51320e-03	3.54257e-03	3.54257e-03
51.4	3.50227e-03	3.54257e-03	3.54257e-03
51.5	3.49136e-03	3.50955e-03	3.50955e-03
51.6	3.48049e-03	3.49861e-03	3.49861e-03
51.7	3.46966e-03	3.48771e-03	3.48771e-03
51.8	3.45886e-03	3.48771e-03	3.48771e-03
51.9	3.44809e-03	3.48771e-03	3.48771e-03
52.0	3.43735e-03	3.45520e-03	3.45520e-03
52.1	3.42665e-03	3.44443e-03	3.44443e-03
52.2	3.41598e-03	3.43369e-03	3.43369e-03
52.3	3.40535e-03	3.43369e-03	3.43369e-03
52.4	3.39475e-03	3.43369e-03	3.43369e-03
52.5	3.38418e-03	3.40168e-03	3.40168e-03
52.6	3.37364e-03	3.39108e-03	3.39108e-03
52.7	3.36314e-03	3.38051e-03	3.38051e-03
52.8	3.35267e-03	3.38051e-03	3.38051e-03
52.9	3.34223e-03	3.38051e-03	3.38051e-03

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x	$A(x)$	P_{v1}	P_{v2}
53.0	3.33183e-03	3.34900e-03	3.34900e-03
53.1	3.32146e-03	3.33856e-03	3.33856e-03
53.2	3.31112e-03	3.32815e-03	3.32815e-03
53.3	3.30081e-03	3.32815e-03	3.32815e-03
53.4	3.29053e-03	3.32815e-03	3.32815e-03
53.5	3.28029e-03	3.29713e-03	3.29713e-03
53.6	3.27007e-03	3.28685e-03	3.28685e-03
53.7	3.25989e-03	3.27661e-03	3.27661e-03
53.8	3.24975e-03	3.27661e-03	3.27661e-03
53.9	3.23963e-03	3.27661e-03	3.27661e-03
54.0	3.22954e-03	3.24606e-03	3.24606e-03
54.1	3.21949e-03	3.23595e-03	3.23595e-03
54.2	3.20947e-03	3.22586e-03	3.22586e-03
54.3	3.19947e-03	3.22586e-03	3.22586e-03
54.4	3.18951e-03	3.22586e-03	3.22586e-03
54.5	3.17958e-03	3.19579e-03	3.19579e-03
54.6	3.16968e-03	3.18583e-03	3.18583e-03
54.7	3.15982e-03	3.17590e-03	3.17590e-03
54.8	3.14998e-03	3.17590e-03	3.17590e-03
54.9	3.14017e-03	3.17590e-03	3.17590e-03
55.0	3.13040e-03	3.14629e-03	3.14629e-03
55.1	3.12065e-03	3.13649e-03	3.13649e-03
55.2	3.11094e-03	3.12671e-03	3.12671e-03
55.3	3.10125e-03	3.12671e-03	3.12671e-03
55.4	3.09160e-03	3.12671e-03	3.12671e-03
55.5	3.08197e-03	3.09756e-03	3.09756e-03
55.6	3.07238e-03	3.08791e-03	3.08791e-03
55.7	3.06281e-03	3.07828e-03	3.07828e-03
55.8	3.05328e-03	3.07828e-03	3.07828e-03
55.9	3.04377e-03	3.07828e-03	3.07828e-03
56.0	3.03429e-03	3.04959e-03	3.04959e-03
56.1	3.02485e-03	3.04008e-03	3.04008e-03
56.2	3.01543e-03	3.03061e-03	3.03061e-03
56.3	3.00604e-03	3.03061e-03	3.03061e-03
56.4	2.99669e-03	3.03061e-03	3.03061e-03
56.5	2.98736e-03	3.00236e-03	3.00236e-03
56.6	2.97806e-03	2.99300e-03	2.99300e-03
56.7	2.96878e-03	2.98367e-03	2.98367e-03
56.8	2.95954e-03	2.98367e-03	2.98367e-03
56.9	2.95033e-03	2.98367e-03	2.98367e-03

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x	$A(x)$	P_{v1}	P_{v2}
57.0	2.94114e-03	2.95586e-03	2.95586e-03
57.1	2.93199e-03	2.94665e-03	2.94665e-03
57.2	2.92286e-03	2.93746e-03	2.93746e-03
57.3	2.91376e-03	2.93746e-03	2.93746e-03
57.4	2.90469e-03	2.93746e-03	2.93746e-03
57.5	2.89565e-03	2.91008e-03	2.91008e-03
57.6	2.88663e-03	2.90101e-03	2.90101e-03
57.7	2.87764e-03	2.89197e-03	2.89197e-03
57.8	2.86869e-03	2.89197e-03	2.89197e-03
57.9	2.85975e-03	2.89197e-03	2.89197e-03
58.0	2.85085e-03	2.86501e-03	2.86501e-03
58.1	2.84198e-03	2.85608e-03	2.85608e-03
58.2	2.83313e-03	2.84718e-03	2.84718e-03
58.3	2.82431e-03	2.84718e-03	2.84718e-03
58.4	2.81552e-03	2.84718e-03	2.84718e-03
58.5	2.80675e-03	2.82064e-03	2.82064e-03
58.6	2.79801e-03	2.81184e-03	2.81184e-03
58.7	2.78930e-03	2.80308e-03	2.80308e-03
58.8	2.78062e-03	2.80308e-03	2.80308e-03
58.9	2.77196e-03	2.80308e-03	2.80308e-03
59.0	2.76333e-03	2.77695e-03	2.77695e-03
59.1	2.75473e-03	2.76829e-03	2.76829e-03
59.2	2.74615e-03	2.75967e-03	2.75967e-03
59.3	2.73760e-03	2.75967e-03	2.75967e-03
59.4	2.72908e-03	2.75967e-03	2.75967e-03
59.5	2.72058e-03	2.73394e-03	2.73394e-03
59.6	2.71211e-03	2.72542e-03	2.72542e-03
59.7	2.70367e-03	2.71692e-03	2.71692e-03
59.8	2.69525e-03	2.71692e-03	2.71692e-03
59.9	2.68686e-03	2.71692e-03	2.71692e-03
60.0	2.67850e-03	2.69160e-03	2.69160e-03
60.1	2.67016e-03	2.68321e-03	2.68321e-03
60.2	2.66185e-03	2.67485e-03	2.67485e-03
60.3	2.65356e-03	2.67485e-03	2.67485e-03
60.4	2.64530e-03	2.67485e-03	2.67485e-03
60.5	2.63706e-03	2.64991e-03	2.64991e-03
60.6	2.62885e-03	2.64165e-03	2.64165e-03
60.7	2.62067e-03	2.63342e-03	2.63342e-03
60.8	2.61251e-03	2.63342e-03	2.63342e-03
60.9	2.60438e-03	2.63342e-03	2.63342e-03

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x	$A(x)$	P_{v1}	P_{v2}
61.0	2.59627e-03	2.60887e-03	2.60887e-03
61.1	2.58819e-03	2.60074e-03	2.60074e-03
61.2	2.58013e-03	2.59263e-03	2.59263e-03
61.3	2.57210e-03	2.59263e-03	2.59263e-03
61.4	2.56409e-03	2.59263e-03	2.59263e-03
61.5	2.55611e-03	2.56846e-03	2.56846e-03
61.6	2.54815e-03	2.56046e-03	2.56046e-03
61.7	2.54022e-03	2.55248e-03	2.55248e-03
61.8	2.53231e-03	2.55248e-03	2.55248e-03
61.9	2.52442e-03	2.55248e-03	2.55248e-03
62.0	2.51656e-03	2.52868e-03	2.52868e-03
62.1	2.50873e-03	2.52080e-03	2.52080e-03
62.2	2.50092e-03	2.51295e-03	2.51295e-03
62.3	2.49313e-03	2.51295e-03	2.51295e-03
62.4	2.48537e-03	2.51295e-03	2.51295e-03
62.5	2.47763e-03	2.48952e-03	2.48952e-03
62.6	2.46992e-03	2.48176e-03	2.48176e-03
62.7	2.46223e-03	2.47403e-03	2.47403e-03
62.8	2.45457e-03	2.47403e-03	2.47403e-03
62.9	2.44693e-03	2.47403e-03	2.47403e-03
63.0	2.43931e-03	2.45096e-03	2.45096e-03
63.1	2.43171e-03	2.44332e-03	2.44332e-03
63.2	2.42414e-03	2.43571e-03	2.43571e-03
63.3	2.41660e-03	2.43571e-03	2.43571e-03
63.4	2.40907e-03	2.43571e-03	2.43571e-03
63.5	2.40157e-03	2.41300e-03	2.41300e-03
63.6	2.39410e-03	2.40548e-03	2.40548e-03
63.7	2.38664e-03	2.39798e-03	2.39798e-03
63.8	2.37921e-03	2.39798e-03	2.39798e-03
63.9	2.37181e-03	2.39798e-03	2.39798e-03
64.0	2.36442e-03	2.37563e-03	2.37563e-03
64.1	2.35706e-03	2.37563e-03	2.37563e-03
64.2	2.34972e-03	2.36085e-03	2.36085e-03
64.3	2.34241e-03	2.35349e-03	2.35349e-03
64.4	2.33511e-03	2.34615e-03	2.34615e-03
64.5	2.32785e-03	2.33884e-03	2.33884e-03
64.6	2.32060e-03	2.33884e-03	2.33884e-03
64.7	2.31337e-03	2.32428e-03	2.32428e-03
64.8	2.30617e-03	2.31704e-03	2.31704e-03
64.9	2.29899e-03	2.30981e-03	2.30981e-03

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x	$A(x)$	P_{v1}	P_{v2}
65.0	2.29183e-03	2.30261e-03	2.30261e-03
65.1	2.28470e-03	2.30261e-03	2.30261e-03
65.2	2.27759e-03	2.28828e-03	2.28828e-03
65.3	2.27050e-03	2.28115e-03	2.28115e-03
65.4	2.26343e-03	2.27404e-03	2.27404e-03
65.5	2.25638e-03	2.26695e-03	2.26695e-03
65.6	2.24936e-03	2.26695e-03	2.26695e-03
65.7	2.24235e-03	2.25284e-03	2.25284e-03
65.8	2.23537e-03	2.24582e-03	2.24582e-03
65.9	2.22841e-03	2.23882e-03	2.23882e-03
66.0	2.22148e-03	2.23184e-03	2.23184e-03
66.1	2.21456e-03	2.23184e-03	2.23184e-03
66.2	2.20767e-03	2.21795e-03	2.21795e-03
66.3	2.20079e-03	2.21104e-03	2.21104e-03
66.4	2.19394e-03	2.20415e-03	2.20415e-03
66.5	2.18711e-03	2.19728e-03	2.19728e-03
66.6	2.18030e-03	2.19728e-03	2.19728e-03
66.7	2.17351e-03	2.18360e-03	2.18360e-03
66.8	2.16675e-03	2.17679e-03	2.17679e-03
66.9	2.16000e-03	2.17001e-03	2.17001e-03
67.0	2.15328e-03	2.16325e-03	2.16325e-03
67.1	2.14657e-03	2.16325e-03	2.16325e-03
67.2	2.13989e-03	2.14978e-03	2.14978e-03
67.3	2.13323e-03	2.14308e-03	2.14308e-03
67.4	2.12659e-03	2.13640e-03	2.13640e-03
67.5	2.11997e-03	2.12974e-03	2.12974e-03
67.6	2.11337e-03	2.12974e-03	2.12974e-03
67.7	2.10679e-03	2.11649e-03	2.11649e-03
67.8	2.10023e-03	2.10989e-03	2.10989e-03
67.9	2.09369e-03	2.10331e-03	2.10331e-03
68.0	2.08717e-03	2.09676e-03	2.09676e-03
68.1	2.08068e-03	2.09676e-03	2.09676e-03
68.2	2.07420e-03	2.08371e-03	2.08371e-03
68.3	2.06774e-03	2.07721e-03	2.07721e-03
68.4	2.06130e-03	2.07074e-03	2.07074e-03
68.5	2.05489e-03	2.06428e-03	2.06428e-03
68.6	2.04849e-03	2.06428e-03	2.06428e-03
68.7	2.04211e-03	2.05143e-03	2.05143e-03
68.8	2.03575e-03	2.04504e-03	2.04504e-03
68.9	2.02942e-03	2.03867e-03	2.03867e-03

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x	$A(x)$	P_{v1}	P_{v2}
69.0	2.02310e-03	2.03231e-03	2.03231e-03
69.1	2.01680e-03	2.03231e-03	2.03231e-03
69.2	2.01052e-03	2.01966e-03	2.01966e-03
69.3	2.00426e-03	2.01337e-03	2.01337e-03
69.4	1.99802e-03	2.00709e-03	2.00709e-03
69.5	1.99180e-03	2.00083e-03	2.00083e-03
69.6	1.98560e-03	2.00083e-03	2.00083e-03
69.7	1.97942e-03	1.98838e-03	1.98838e-03
69.8	1.97326e-03	1.98218e-03	1.98218e-03
69.9	1.96711e-03	1.97601e-03	1.97601e-03
70.0	1.96099e-03	1.96985e-03	1.96985e-03
70.1	1.95488e-03	1.96985e-03	1.96985e-03
70.2	1.94880e-03	1.95759e-03	1.95759e-03
70.3	1.94273e-03	1.95148e-03	1.95148e-03
70.4	1.93668e-03	1.94540e-03	1.94540e-03
70.5	1.93065e-03	1.93934e-03	1.93934e-03
70.6	1.92464e-03	1.93934e-03	1.93934e-03
70.7	1.91865e-03	1.92727e-03	1.92727e-03
70.8	1.91268e-03	1.92126e-03	1.92126e-03
70.9	1.90672e-03	1.91527e-03	1.91527e-03
71.0	1.90079e-03	1.90930e-03	1.90930e-03
71.1	1.89487e-03	1.90930e-03	1.90930e-03
71.2	1.88897e-03	1.89742e-03	1.89742e-03
71.3	1.88309e-03	1.89150e-03	1.89150e-03
71.4	1.87723e-03	1.88561e-03	1.88561e-03
71.5	1.87138e-03	1.87973e-03	1.87973e-03
71.6	1.86556e-03	1.87973e-03	1.87973e-03
71.7	1.85975e-03	1.86803e-03	1.86803e-03
71.8	1.85396e-03	1.86221e-03	1.86221e-03
71.9	1.84819e-03	1.85640e-03	1.85640e-03
72.0	1.84243e-03	1.85062e-03	1.85062e-03
72.1	1.83670e-03	1.85062e-03	1.85062e-03
72.2	1.83098e-03	1.83910e-03	1.83910e-03
72.3	1.82528e-03	1.83337e-03	1.83337e-03
72.4	1.81960e-03	1.82765e-03	1.82765e-03
72.5	1.81393e-03	1.82196e-03	1.82196e-03
72.6	1.80829e-03	1.82196e-03	1.82196e-03
72.7	1.80266e-03	1.81062e-03	1.81062e-03
72.8	1.79704e-03	1.80497e-03	1.80497e-03
72.9	1.79145e-03	1.79935e-03	1.79935e-03

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x	$A(x)$	P_{v1}	P_{v2}
73.0	1.78587e-03	1.79374e-03	1.79374e-03
73.1	1.78031e-03	1.79374e-03	1.79374e-03
73.2	1.77477e-03	1.78257e-03	1.78257e-03
73.3	1.76924e-03	1.77702e-03	1.77702e-03
73.4	1.76374e-03	1.77148e-03	1.77148e-03
73.5	1.75825e-03	1.76596e-03	1.76596e-03
73.6	1.75277e-03	1.76596e-03	1.76596e-03
73.7	1.74732e-03	1.75497e-03	1.75497e-03
73.8	1.74188e-03	1.74950e-03	1.74950e-03
73.9	1.73645e-03	1.74404e-03	1.74404e-03
74.0	1.73105e-03	1.73861e-03	1.73861e-03
74.1	1.72566e-03	1.73861e-03	1.73861e-03
74.2	1.72029e-03	1.72778e-03	1.72778e-03
74.3	1.71493e-03	1.72240e-03	1.72240e-03
74.4	1.70959e-03	1.71703e-03	1.71703e-03
74.5	1.70427e-03	1.71168e-03	1.71168e-03
74.6	1.69896e-03	1.71168e-03	1.71168e-03
74.7	1.69367e-03	1.70103e-03	1.70103e-03
74.8	1.68840e-03	1.69572e-03	1.69572e-03
74.9	1.68314e-03	1.69044e-03	1.69044e-03
75.0	1.67790e-03	1.68517e-03	1.68517e-03
75.1	1.67268e-03	1.68517e-03	1.68517e-03
75.2	1.66747e-03	1.67468e-03	1.67468e-03
75.3	1.66228e-03	1.66946e-03	1.66946e-03
75.4	1.65711e-03	1.66426e-03	1.66426e-03
75.5	1.65195e-03	1.65907e-03	1.65907e-03
75.6	1.64681e-03	1.65907e-03	1.65907e-03
75.7	1.64168e-03	1.64874e-03	1.64874e-03
75.8	1.63657e-03	1.64360e-03	1.64360e-03
75.9	1.63147e-03	1.63848e-03	1.63848e-03
76.0	1.62639e-03	1.63337e-03	1.63337e-03
76.1	1.62133e-03	1.63337e-03	1.63337e-03
76.2	1.61628e-03	1.62321e-03	1.62321e-03
76.3	1.61125e-03	1.61815e-03	1.61815e-03
76.4	1.60623e-03	1.61310e-03	1.61310e-03
76.5	1.60123e-03	1.60808e-03	1.60808e-03
76.6	1.59625e-03	1.60808e-03	1.60808e-03
76.7	1.59128e-03	1.59807e-03	1.59807e-03
76.8	1.58633e-03	1.59807e-03	1.59807e-03
76.9	1.58139e-03	1.58812e-03	1.58812e-03

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x	$A(x)$	P_{v1}	P_{v2}
77.0	1.57646e-03	1.58317e-03	1.58317e-03
77.1	1.57156e-03	1.58317e-03	1.58317e-03
77.2	1.56666e-03	1.57332e-03	1.57332e-03
77.3	1.56179e-03	1.57332e-03	1.57332e-03
77.4	1.55692e-03	1.56352e-03	1.56352e-03
77.5	1.55208e-03	1.55865e-03	1.55865e-03
77.6	1.54724e-03	1.55865e-03	1.55865e-03
77.7	1.54243e-03	1.54895e-03	1.54895e-03
77.8	1.53763e-03	1.54895e-03	1.54895e-03
77.9	1.53284e-03	1.53931e-03	1.53931e-03
78.0	1.52807e-03	1.53451e-03	1.53451e-03
78.1	1.52331e-03	1.53451e-03	1.53451e-03
78.2	1.51857e-03	1.52496e-03	1.52496e-03
78.3	1.51384e-03	1.52496e-03	1.52496e-03
78.4	1.50913e-03	1.51547e-03	1.51547e-03
78.5	1.50443e-03	1.51074e-03	1.51074e-03
78.6	1.49974e-03	1.51074e-03	1.51074e-03
78.7	1.49508e-03	1.50134e-03	1.50134e-03
78.8	1.49042e-03	1.50134e-03	1.50134e-03
78.9	1.48578e-03	1.49200e-03	1.49200e-03
79.0	1.48116e-03	1.48735e-03	1.48735e-03
79.1	1.47654e-03	1.48735e-03	1.48735e-03
79.2	1.47195e-03	1.47809e-03	1.47809e-03
79.3	1.46737e-03	1.47809e-03	1.47809e-03
79.4	1.46280e-03	1.46889e-03	1.46889e-03
79.5	1.45824e-03	1.46431e-03	1.46431e-03
79.6	1.45370e-03	1.46431e-03	1.46431e-03
79.7	1.44918e-03	1.45520e-03	1.45520e-03
79.8	1.44467e-03	1.45520e-03	1.45520e-03
79.9	1.44017e-03	1.44614e-03	1.44614e-03
80.0	1.43568e-03	1.44163e-03	1.44163e-03
80.1	1.43122e-03	1.44163e-03	1.44163e-03
80.2	1.42676e-03	1.43266e-03	1.43266e-03
80.3	1.42232e-03	1.43266e-03	1.43266e-03
80.4	1.41789e-03	1.42374e-03	1.42374e-03
80.5	1.41348e-03	1.41930e-03	1.41930e-03
80.6	1.40908e-03	1.41930e-03	1.41930e-03
80.7	1.40469e-03	1.41047e-03	1.41047e-03
80.8	1.40032e-03	1.41047e-03	1.41047e-03
80.9	1.39596e-03	1.40169e-03	1.40169e-03

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x	$A(x)$	P_{v1}	P_{v2}
81.0	1.39161e-03	1.39732e-03	1.39732e-03
81.1	1.38728e-03	1.39732e-03	1.39732e-03
81.2	1.38296e-03	1.38863e-03	1.38863e-03
81.3	1.37865e-03	1.38863e-03	1.38863e-03
81.4	1.37436e-03	1.37998e-03	1.37998e-03
81.5	1.37008e-03	1.37568e-03	1.37568e-03
81.6	1.36582e-03	1.37568e-03	1.37568e-03
81.7	1.36157e-03	1.36712e-03	1.36712e-03
81.8	1.35733e-03	1.36712e-03	1.36712e-03
81.9	1.35310e-03	1.35861e-03	1.35861e-03
82.0	1.34889e-03	1.35437e-03	1.35437e-03
82.1	1.34469e-03	1.35437e-03	1.35437e-03
82.2	1.34050e-03	1.34594e-03	1.34594e-03
82.3	1.33633e-03	1.34594e-03	1.34594e-03
82.4	1.33217e-03	1.33757e-03	1.33757e-03
82.5	1.32802e-03	1.33340e-03	1.33340e-03
82.6	1.32389e-03	1.33340e-03	1.33340e-03
82.7	1.31977e-03	1.32510e-03	1.32510e-03
82.8	1.31566e-03	1.32510e-03	1.32510e-03
82.9	1.31156e-03	1.31685e-03	1.31685e-03
83.0	1.30748e-03	1.31275e-03	1.31275e-03
83.1	1.30341e-03	1.31275e-03	1.31275e-03
83.2	1.29935e-03	1.30458e-03	1.30458e-03
83.3	1.29530e-03	1.30458e-03	1.30458e-03
83.4	1.29127e-03	1.29646e-03	1.29646e-03
83.5	1.28725e-03	1.29242e-03	1.29242e-03
83.6	1.28324e-03	1.29242e-03	1.29242e-03
83.7	1.27925e-03	1.28437e-03	1.28437e-03
83.8	1.27527e-03	1.28437e-03	1.28437e-03
83.9	1.27130e-03	1.27638e-03	1.27638e-03
84.0	1.26734e-03	1.27240e-03	1.27240e-03
84.1	1.26339e-03	1.27240e-03	1.27240e-03
84.2	1.25946e-03	1.26448e-03	1.26448e-03
84.3	1.25554e-03	1.26448e-03	1.26448e-03
84.4	1.25163e-03	1.25661e-03	1.25661e-03
84.5	1.24773e-03	1.25269e-03	1.25269e-03
84.6	1.24385e-03	1.25269e-03	1.25269e-03
84.7	1.23998e-03	1.24490e-03	1.24490e-03
84.8	1.23612e-03	1.24490e-03	1.24490e-03
84.9	1.23227e-03	1.23715e-03	1.23715e-03

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x	$A(x)$	P_{v1}	P_{v2}
85.0	1.22843e-03	1.23329e-03	1.23329e-03
85.1	1.22461e-03	1.23329e-03	1.23329e-03
85.2	1.22080e-03	1.22561e-03	1.22561e-03
85.3	1.21699e-03	1.22561e-03	1.22561e-03
85.4	1.21321e-03	1.21799e-03	1.21799e-03
85.5	1.20943e-03	1.21419e-03	1.21419e-03
85.6	1.20566e-03	1.21419e-03	1.21419e-03
85.7	1.20191e-03	1.20663e-03	1.20663e-03
85.8	1.19817e-03	1.20663e-03	1.20663e-03
85.9	1.19444e-03	1.19912e-03	1.19912e-03
86.0	1.19072e-03	1.19538e-03	1.19538e-03
86.1	1.18701e-03	1.19538e-03	1.19538e-03
86.2	1.18332e-03	1.18794e-03	1.18794e-03
86.3	1.17963e-03	1.18794e-03	1.18794e-03
86.4	1.17596e-03	1.18055e-03	1.18055e-03
86.5	1.17230e-03	1.17687e-03	1.17687e-03
86.6	1.16865e-03	1.17687e-03	1.17687e-03
86.7	1.16501e-03	1.16955e-03	1.16955e-03
86.8	1.16138e-03	1.16955e-03	1.16955e-03
86.9	1.15777e-03	1.16227e-03	1.16227e-03
87.0	1.15416e-03	1.15864e-03	1.15864e-03
87.1	1.15057e-03	1.15864e-03	1.15864e-03
87.2	1.14699e-03	1.15143e-03	1.15143e-03
87.3	1.14342e-03	1.15143e-03	1.15143e-03
87.4	1.13986e-03	1.14427e-03	1.14427e-03
87.5	1.13631e-03	1.14070e-03	1.14070e-03
87.6	1.13277e-03	1.14070e-03	1.14070e-03
87.7	1.12925e-03	1.13360e-03	1.13360e-03
87.8	1.12573e-03	1.13360e-03	1.13360e-03
87.9	1.12223e-03	1.12654e-03	1.12654e-03
88.0	1.11873e-03	1.12303e-03	1.12303e-03
88.1	1.11525e-03	1.12303e-03	1.12303e-03
88.2	1.11178e-03	1.11604e-03	1.11604e-03
88.3	1.10832e-03	1.11604e-03	1.11604e-03
88.4	1.10487e-03	1.10910e-03	1.10910e-03
88.5	1.10143e-03	1.10564e-03	1.10564e-03
88.6	1.09800e-03	1.10564e-03	1.10564e-03
88.7	1.09458e-03	1.09876e-03	1.09876e-03
88.8	1.09117e-03	1.09876e-03	1.09876e-03
88.9	1.08777e-03	1.09192e-03	1.09192e-03

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x	$A(x)$	P_{v1}	P_{v2}
89.0	1.08439e-03	1.08851e-03	1.08851e-03
89.1	1.08101e-03	1.08851e-03	1.08851e-03
89.2	1.07765e-03	1.08174e-03	1.08174e-03
89.3	1.07429e-03	1.08174e-03	1.08174e-03
89.4	1.07095e-03	1.07501e-03	1.07501e-03
89.5	1.06761e-03	1.07166e-03	1.07166e-03
89.6	1.06429e-03	1.07166e-03	1.07166e-03
89.7	1.06098e-03	1.06499e-03	1.06499e-03
89.8	1.05767e-03	1.06499e-03	1.06499e-03
89.9	1.05438e-03	1.05836e-03	1.05836e-03
90.0	1.05110e-03	1.05506e-03	1.05506e-03
90.1	1.04783e-03	1.05506e-03	1.05506e-03
90.2	1.04456e-03	1.04849e-03	1.04849e-03
90.3	1.04131e-03	1.04849e-03	1.04849e-03
90.4	1.03807e-03	1.04197e-03	1.04197e-03
90.5	1.03484e-03	1.03872e-03	1.03872e-03
90.6	1.03162e-03	1.03872e-03	1.03872e-03
90.7	1.02840e-03	1.03225e-03	1.03225e-03
90.8	1.02520e-03	1.03225e-03	1.03225e-03
90.9	1.02201e-03	1.02583e-03	1.02583e-03
91.0	1.01883e-03	1.02263e-03	1.02263e-03
91.1	1.01566e-03	1.02263e-03	1.02263e-03
91.2	1.01250e-03	1.01627e-03	1.01627e-03
91.3	1.00934e-03	1.01627e-03	1.01627e-03
91.4	1.00620e-03	1.00994e-03	1.00994e-03
91.5	1.00307e-03	1.00679e-03	1.00679e-03
91.6	9.99946e-04	1.00679e-03	1.00679e-03
91.7	9.96833e-04	1.00053e-03	1.00053e-03
91.8	9.93729e-04	1.00053e-03	1.00053e-03
91.9	9.90636e-04	9.94298e-04	9.94298e-04
92.0	9.87552e-04	9.91199e-04	9.91199e-04
92.1	9.84477e-04	9.91199e-04	9.91199e-04
92.2	9.81412e-04	9.85030e-04	9.85030e-04
92.3	9.78357e-04	9.85030e-04	9.85030e-04
92.4	9.75311e-04	9.78899e-04	9.78899e-04
92.5	9.72275e-04	9.75848e-04	9.75848e-04
92.6	9.69248e-04	9.75848e-04	9.75848e-04
92.7	9.66230e-04	9.69774e-04	9.69774e-04
92.8	9.63222e-04	9.69774e-04	9.69774e-04
92.9	9.60224e-04	9.63738e-04	9.63738e-04

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x	$A(x)$	P_{v1}	P_{v2}
93.0	9.57234e-04	9.60734e-04	9.60734e-04
93.1	9.54254e-04	9.60734e-04	9.60734e-04
93.2	9.51283e-04	9.54754e-04	9.54754e-04
93.3	9.48322e-04	9.54754e-04	9.54754e-04
93.4	9.45369e-04	9.48812e-04	9.48812e-04
93.5	9.42426e-04	9.45854e-04	9.45854e-04
93.6	9.39492e-04	9.45854e-04	9.45854e-04
93.7	9.36567e-04	9.39967e-04	9.39967e-04
93.8	9.33652e-04	9.39967e-04	9.39967e-04
93.9	9.30745e-04	9.34117e-04	9.34117e-04
94.0	9.27847e-04	9.31205e-04	9.31205e-04
94.1	9.24959e-04	9.31205e-04	9.31205e-04
94.2	9.22079e-04	9.25409e-04	9.25409e-04
94.3	9.19209e-04	9.25409e-04	9.25409e-04
94.4	9.16347e-04	9.19649e-04	9.19649e-04
94.5	9.13494e-04	9.16783e-04	9.16783e-04
94.6	9.10650e-04	9.16783e-04	9.16783e-04
94.7	9.07815e-04	9.11076e-04	9.11076e-04
94.8	9.04989e-04	9.11076e-04	9.11076e-04
94.9	9.02172e-04	9.05406e-04	9.05406e-04
95.0	8.99363e-04	9.02584e-04	9.02584e-04
95.1	8.96563e-04	9.02584e-04	9.02584e-04
95.2	8.93772e-04	8.96966e-04	8.96966e-04
95.3	8.90989e-04	8.96966e-04	8.96966e-04
95.4	8.88215e-04	8.91383e-04	8.91383e-04
95.5	8.85450e-04	8.88605e-04	8.88605e-04
95.6	8.82694e-04	8.88605e-04	8.88605e-04
95.7	8.79946e-04	8.83074e-04	8.83074e-04
95.8	8.77206e-04	8.83074e-04	8.83074e-04
95.9	8.74475e-04	8.77578e-04	8.77578e-04
96.0	8.71753e-04	8.74842e-04	8.74842e-04
96.1	8.69039e-04	8.74842e-04	8.74842e-04
96.2	8.66333e-04	8.69397e-04	8.69397e-04
96.3	8.63636e-04	8.69397e-04	8.69397e-04
96.4	8.60948e-04	8.63986e-04	8.63986e-04
96.5	8.58267e-04	8.61293e-04	8.61293e-04
96.6	8.55595e-04	8.61293e-04	8.61293e-04
96.7	8.52932e-04	8.55932e-04	8.55932e-04
96.8	8.50276e-04	8.55932e-04	8.55932e-04
96.9	8.47629e-04	8.50605e-04	8.50605e-04

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x	$A(x)$	P_{v1}	P_{v2}
97.0	8.44990e-04	8.47953e-04	8.47953e-04
97.1	8.42360e-04	8.47953e-04	8.47953e-04
97.2	8.39737e-04	8.42675e-04	8.42675e-04
97.3	8.37123e-04	8.42675e-04	8.42675e-04
97.4	8.34517e-04	8.37431e-04	8.37431e-04
97.5	8.31919e-04	8.34820e-04	8.34820e-04
97.6	8.29329e-04	8.34820e-04	8.34820e-04
97.7	8.26747e-04	8.29624e-04	8.29624e-04
97.8	8.24173e-04	8.29624e-04	8.29624e-04
97.9	8.21607e-04	8.24461e-04	8.24461e-04
98.0	8.19049e-04	8.21891e-04	8.21891e-04
98.1	8.16500e-04	8.21891e-04	8.21891e-04
98.2	8.13958e-04	8.16775e-04	8.16775e-04
98.3	8.11424e-04	8.16775e-04	8.16775e-04
98.4	8.08898e-04	8.11692e-04	8.11692e-04
98.5	8.06379e-04	8.09162e-04	8.09162e-04
98.6	8.03869e-04	8.09162e-04	8.09162e-04
98.7	8.01366e-04	8.04125e-04	8.04125e-04
98.8	7.98871e-04	8.04125e-04	8.04125e-04
98.9	7.96384e-04	7.99120e-04	7.99120e-04
99.0	7.93905e-04	7.96629e-04	7.96629e-04
99.1	7.91433e-04	7.96629e-04	7.96629e-04
99.2	7.88969e-04	7.91671e-04	7.91671e-04
99.3	7.86513e-04	7.91671e-04	7.91671e-04
99.4	7.84065e-04	7.86744e-04	7.86744e-04
99.5	7.81624e-04	7.84291e-04	7.84291e-04
99.6	7.79190e-04	7.84291e-04	7.84291e-04
99.7	7.76765e-04	7.79410e-04	7.79410e-04
99.8	7.74346e-04	7.79410e-04	7.79410e-04
99.9	7.71936e-04	7.74559e-04	7.74559e-04
100.0	7.69532e-04	7.72144e-04	7.72144e-04
100.1	7.67137e-04	7.72144e-04	7.72144e-04
100.2	7.64748e-04	7.67338e-04	7.67338e-04
100.3	7.62368e-04	7.67338e-04	7.67338e-04
100.4	7.59994e-04	7.62562e-04	7.62562e-04
100.5	7.57628e-04	7.60186e-04	7.60186e-04
100.6	7.55270e-04	7.60186e-04	7.60186e-04
100.7	7.52918e-04	7.55454e-04	7.55454e-04
100.8	7.50574e-04	7.55454e-04	7.55454e-04
100.9	7.48237e-04	7.50752e-04	7.50752e-04

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x	$A(x)$	P_{v1}	P_{v2}
101.0	7.45908e-04	7.48412e-04	7.48412e-04
101.1	7.43586e-04	7.48412e-04	7.48412e-04
101.2	7.41271e-04	7.43754e-04	7.43754e-04
101.3	7.38963e-04	7.43754e-04	7.43754e-04
101.4	7.36663e-04	7.39125e-04	7.39125e-04
101.5	7.34369e-04	7.36821e-04	7.36821e-04
101.6	7.32083e-04	7.36821e-04	7.36821e-04
101.7	7.29804e-04	7.32235e-04	7.32235e-04
101.8	7.27532e-04	7.32235e-04	7.32235e-04
101.9	7.25267e-04	7.27677e-04	7.27677e-04
102.0	7.23009e-04	7.25409e-04	7.25409e-04
102.1	7.20758e-04	7.25409e-04	7.25409e-04
102.2	7.18514e-04	7.20894e-04	7.20894e-04
102.3	7.16277e-04	7.20894e-04	7.20894e-04
102.4	7.14047e-04	7.16407e-04	7.16407e-04
102.5	7.11824e-04	7.14174e-04	7.14174e-04
102.6	7.09608e-04	7.14174e-04	7.14174e-04
102.7	7.07399e-04	7.09729e-04	7.09729e-04
102.8	7.05197e-04	7.09729e-04	7.09729e-04
102.9	7.03001e-04	7.05311e-04	7.05311e-04
103.0	7.00813e-04	7.03113e-04	7.03113e-04
103.1	6.98631e-04	7.03113e-04	7.03113e-04
103.2	6.96456e-04	6.98737e-04	6.98737e-04
103.3	6.94288e-04	6.98737e-04	6.98737e-04
103.4	6.92126e-04	6.94388e-04	6.94388e-04
103.5	6.89972e-04	6.92223e-04	6.92223e-04
103.6	6.87824e-04	6.92223e-04	6.92223e-04
103.7	6.85682e-04	6.87915e-04	6.87915e-04
103.8	6.83548e-04	6.87915e-04	6.87915e-04
103.9	6.81420e-04	6.83633e-04	6.83633e-04
104.0	6.79298e-04	6.81502e-04	6.81502e-04
104.1	6.77183e-04	6.81502e-04	6.81502e-04
104.2	6.75075e-04	6.77261e-04	6.77261e-04
104.3	6.72974e-04	6.77261e-04	6.77261e-04
104.4	6.70878e-04	6.73045e-04	6.73045e-04
104.5	6.68790e-04	6.70947e-04	6.70947e-04
104.6	6.66708e-04	6.70947e-04	6.70947e-04
104.7	6.64632e-04	6.66771e-04	6.66771e-04
104.8	6.62563e-04	6.66771e-04	6.66771e-04
104.9	6.60500e-04	6.62621e-04	6.62621e-04

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x	$A(x)$	P_{v1}	P_{v2}
105.0	6.58444e-04	6.60556e-04	6.60556e-04
105.1	6.56394e-04	6.60556e-04	6.60556e-04
105.2	6.54351e-04	6.56444e-04	6.56444e-04
105.3	6.52314e-04	6.56444e-04	6.56444e-04
105.4	6.50283e-04	6.52359e-04	6.52359e-04
105.5	6.48258e-04	6.50325e-04	6.50325e-04
105.6	6.46240e-04	6.50325e-04	6.50325e-04
105.7	6.44228e-04	6.46278e-04	6.46278e-04
105.8	6.42223e-04	6.46278e-04	6.46278e-04
105.9	6.40223e-04	6.42255e-04	6.42255e-04
106.0	6.38230e-04	6.40253e-04	6.40253e-04
106.1	6.36243e-04	6.40253e-04	6.40253e-04
106.2	6.34262e-04	6.36268e-04	6.36268e-04
106.3	6.32288e-04	6.36268e-04	6.36268e-04
106.4	6.30319e-04	6.32308e-04	6.32308e-04
106.5	6.28357e-04	6.30337e-04	6.30337e-04
106.6	6.26401e-04	6.30337e-04	6.30337e-04
106.7	6.24451e-04	6.26414e-04	6.26414e-04
106.8	6.22507e-04	6.26414e-04	6.26414e-04
106.9	6.20569e-04	6.22515e-04	6.22515e-04
107.0	6.18637e-04	6.20575e-04	6.20575e-04
107.1	6.16711e-04	6.20575e-04	6.20575e-04
107.2	6.14791e-04	6.16712e-04	6.16712e-04
107.3	6.12877e-04	6.16712e-04	6.16712e-04
107.4	6.10969e-04	6.12874e-04	6.12874e-04
107.5	6.09067e-04	6.10963e-04	6.10963e-04
107.6	6.07171e-04	6.10963e-04	6.10963e-04
107.7	6.05280e-04	6.07161e-04	6.07161e-04
107.8	6.03396e-04	6.07161e-04	6.07161e-04
107.9	6.01517e-04	6.03381e-04	6.03381e-04
108.0	5.99645e-04	6.01501e-04	6.01501e-04
108.1	5.97778e-04	6.01501e-04	6.01501e-04
108.2	5.95917e-04	5.97757e-04	5.97757e-04
108.3	5.94062e-04	5.97757e-04	5.97757e-04
108.4	5.92212e-04	5.94036e-04	5.94036e-04
108.5	5.90369e-04	5.92185e-04	5.92185e-04
108.6	5.88531e-04	5.92185e-04	5.92185e-04
108.7	5.86698e-04	5.88499e-04	5.88499e-04
108.8	5.84872e-04	5.88499e-04	5.88499e-04
108.9	5.83051e-04	5.84836e-04	5.84836e-04

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x	$A(x)$	P_{v1}	P_{v2}
109.0	5.81236e-04	5.83013e-04	5.83013e-04
109.1	5.79426e-04	5.83013e-04	5.83013e-04
109.2	5.77623e-04	5.79384e-04	5.79384e-04
109.3	5.75824e-04	5.79384e-04	5.79384e-04
109.4	5.74032e-04	5.75778e-04	5.75778e-04
109.5	5.72244e-04	5.73984e-04	5.73984e-04
109.6	5.70463e-04	5.73984e-04	5.73984e-04
109.7	5.68687e-04	5.70411e-04	5.70411e-04
109.8	5.66917e-04	5.70411e-04	5.70411e-04
109.9	5.65152e-04	5.66861e-04	5.66861e-04
110.0	5.63392e-04	5.65094e-04	5.65094e-04
110.1	5.61638e-04	5.65094e-04	5.65094e-04
110.2	5.59890e-04	5.61577e-04	5.61577e-04
110.3	5.58147e-04	5.61577e-04	5.61577e-04
110.4	5.56409e-04	5.58081e-04	5.58081e-04
110.5	5.54677e-04	5.56342e-04	5.56342e-04
110.6	5.52950e-04	5.56342e-04	5.56342e-04
110.7	5.51229e-04	5.52879e-04	5.52879e-04
110.8	5.49512e-04	5.52879e-04	5.52879e-04
110.9	5.47802e-04	5.49438e-04	5.49438e-04
111.0	5.46096e-04	5.47725e-04	5.47725e-04
111.1	5.44396e-04	5.47725e-04	5.47725e-04
111.2	5.42701e-04	5.44316e-04	5.44316e-04
111.3	5.41012e-04	5.44316e-04	5.44316e-04
111.4	5.39327e-04	5.40928e-04	5.40928e-04
111.5	5.37648e-04	5.39242e-04	5.39242e-04
111.6	5.35975e-04	5.39242e-04	5.39242e-04
111.7	5.34306e-04	5.35886e-04	5.35886e-04
111.8	5.32643e-04	5.35886e-04	5.35886e-04
111.9	5.30984e-04	5.32550e-04	5.32550e-04
112.0	5.29331e-04	5.30891e-04	5.30891e-04
112.1	5.27683e-04	5.30891e-04	5.30891e-04
112.2	5.26041e-04	5.27586e-04	5.27586e-04
112.3	5.24403e-04	5.27586e-04	5.27586e-04
112.4	5.22770e-04	5.24302e-04	5.24302e-04
112.5	5.21143e-04	5.22668e-04	5.22668e-04
112.6	5.19520e-04	5.22668e-04	5.22668e-04
112.7	5.17903e-04	5.19415e-04	5.19415e-04
112.8	5.16291e-04	5.19415e-04	5.19415e-04
112.9	5.14683e-04	5.16182e-04	5.16182e-04

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x	$A(x)$	P_{v1}	P_{v2}
113.0	5.13081e-04	5.14573e-04	5.14573e-04
113.1	5.11484e-04	5.14573e-04	5.14573e-04
113.2	5.09891e-04	5.11370e-04	5.11370e-04
113.3	5.08304e-04	5.11370e-04	5.11370e-04
113.4	5.06722e-04	5.08188e-04	5.08188e-04
113.5	5.05144e-04	5.06604e-04	5.06604e-04
113.6	5.03571e-04	5.06604e-04	5.06604e-04
113.7	5.02004e-04	5.03450e-04	5.03450e-04
113.8	5.00441e-04	5.03450e-04	5.03450e-04
113.9	4.98883e-04	5.00317e-04	5.00317e-04
114.0	4.97330e-04	4.98757e-04	4.98757e-04
114.1	4.95781e-04	4.98757e-04	4.98757e-04
114.2	4.94238e-04	4.95653e-04	4.95653e-04
114.3	4.92699e-04	4.95653e-04	4.95653e-04
114.4	4.91165e-04	4.92568e-04	4.92568e-04
114.5	4.89636e-04	4.91033e-04	4.91033e-04
114.6	4.88112e-04	4.91033e-04	4.91033e-04
114.7	4.86592e-04	4.87977e-04	4.87977e-04
114.8	4.85077e-04	4.87977e-04	4.87977e-04
114.9	4.83567e-04	4.84939e-04	4.84939e-04
115.0	4.82062e-04	4.83428e-04	4.83428e-04
115.1	4.80561e-04	4.83428e-04	4.83428e-04
115.2	4.79065e-04	4.80419e-04	4.80419e-04
115.3	4.77574e-04	4.80419e-04	4.80419e-04
115.4	4.76087e-04	4.77429e-04	4.77429e-04
115.5	4.74605e-04	4.75941e-04	4.75941e-04
115.6	4.73127e-04	4.75941e-04	4.75941e-04
115.7	4.71654e-04	4.72978e-04	4.72978e-04
115.8	4.70186e-04	4.72978e-04	4.72978e-04
115.9	4.68722e-04	4.70034e-04	4.70034e-04
116.0	4.67263e-04	4.68569e-04	4.68569e-04
116.1	4.65808e-04	4.68569e-04	4.68569e-04
116.2	4.64358e-04	4.65653e-04	4.65653e-04
116.3	4.62912e-04	4.65653e-04	4.65653e-04
116.4	4.61471e-04	4.62755e-04	4.62755e-04
116.5	4.60034e-04	4.61312e-04	4.61312e-04
116.6	4.58602e-04	4.61312e-04	4.61312e-04
116.7	4.57175e-04	4.58441e-04	4.58441e-04
116.8	4.55751e-04	4.58441e-04	4.58441e-04
116.9	4.54332e-04	4.55588e-04	4.55588e-04

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x	$A(x)$	P_{v1}	P_{v2}
117.0	4.52918e-04	4.54167e-04	4.54167e-04
117.1	4.51508e-04	4.54167e-04	4.54167e-04
117.2	4.50102e-04	4.51341e-04	4.51341e-04
117.3	4.48701e-04	4.51341e-04	4.51341e-04
117.4	4.47304e-04	4.48531e-04	4.48531e-04
117.5	4.45912e-04	4.47133e-04	4.47133e-04
117.6	4.44523e-04	4.47133e-04	4.47133e-04
117.7	4.43139e-04	4.44350e-04	4.44350e-04
117.8	4.41760e-04	4.44350e-04	4.44350e-04
117.9	4.40385e-04	4.41585e-04	4.41585e-04
118.0	4.39014e-04	4.40208e-04	4.40208e-04
118.1	4.37647e-04	4.40208e-04	4.40208e-04
118.2	4.36284e-04	4.37468e-04	4.37468e-04
118.3	4.34926e-04	4.37468e-04	4.37468e-04
118.4	4.33572e-04	4.34746e-04	4.34746e-04
118.5	4.32222e-04	4.33390e-04	4.33390e-04
118.6	4.30877e-04	4.33390e-04	4.33390e-04
118.7	4.29535e-04	4.30693e-04	4.30693e-04
118.8	4.28198e-04	4.30693e-04	4.30693e-04
118.9	4.26865e-04	4.28012e-04	4.28012e-04
119.0	4.25536e-04	4.26678e-04	4.26678e-04
119.1	4.24211e-04	4.26678e-04	4.26678e-04
119.2	4.22891e-04	4.24023e-04	4.24023e-04
119.3	4.21574e-04	4.24023e-04	4.24023e-04
119.4	4.20262e-04	4.21383e-04	4.21383e-04
119.5	4.18953e-04	4.20070e-04	4.20070e-04
119.6	4.17649e-04	4.20070e-04	4.20070e-04
119.7	4.16349e-04	4.17455e-04	4.17455e-04
119.8	4.15053e-04	4.17455e-04	4.17455e-04
119.9	4.13760e-04	4.14857e-04	4.14857e-04
120.0	4.12472e-04	4.13564e-04	4.13564e-04
120.1	4.11188e-04	4.13564e-04	4.13564e-04
120.2	4.09908e-04	4.10990e-04	4.10990e-04
120.3	4.08632e-04	4.10990e-04	4.10990e-04
120.4	4.07360e-04	4.08432e-04	4.08432e-04
120.5	4.06092e-04	4.07159e-04	4.07159e-04
120.6	4.04827e-04	4.07159e-04	4.07159e-04
120.7	4.03567e-04	4.04625e-04	4.04625e-04
120.8	4.02311e-04	4.04625e-04	4.04625e-04
120.9	4.01058e-04	4.02106e-04	4.02106e-04

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x	$A(x)$	P_{v1}	P_{v2}
121.0	3.99809e-04	4.00853e-04	4.00853e-04
121.1	3.98565e-04	4.00853e-04	4.00853e-04
121.2	3.97324e-04	3.98358e-04	3.98358e-04
121.3	3.96087e-04	3.98358e-04	3.98358e-04
121.4	3.94854e-04	3.95878e-04	3.95878e-04
121.5	3.93625e-04	3.94644e-04	3.94644e-04
121.6	3.92399e-04	3.94644e-04	3.94644e-04
121.7	3.91178e-04	3.92188e-04	3.92188e-04
121.8	3.89960e-04	3.92188e-04	3.92188e-04
121.9	3.88746e-04	3.89747e-04	3.89747e-04
122.0	3.87536e-04	3.88532e-04	3.88532e-04
122.1	3.86329e-04	3.88532e-04	3.88532e-04
122.2	3.85126e-04	3.86114e-04	3.86114e-04
122.3	3.83927e-04	3.86114e-04	3.86114e-04
122.4	3.82732e-04	3.83711e-04	3.83711e-04
122.5	3.81541e-04	3.82515e-04	3.82515e-04
122.6	3.80353e-04	3.82515e-04	3.82515e-04
122.7	3.79169e-04	3.80134e-04	3.80134e-04
122.8	3.77988e-04	3.80134e-04	3.80134e-04
122.9	3.76811e-04	3.77768e-04	3.77768e-04
123.0	3.75638e-04	3.76590e-04	3.76590e-04
123.1	3.74469e-04	3.76590e-04	3.76590e-04
123.2	3.73303e-04	3.74246e-04	3.74246e-04
123.3	3.72141e-04	3.74246e-04	3.74246e-04
123.4	3.70982e-04	3.71917e-04	3.71917e-04
123.5	3.69827e-04	3.70758e-04	3.70758e-04
123.6	3.68676e-04	3.70758e-04	3.70758e-04
123.7	3.67528e-04	3.68450e-04	3.68450e-04
123.8	3.66384e-04	3.68450e-04	3.68450e-04
123.9	3.65243e-04	3.66157e-04	3.66157e-04
124.0	3.64106e-04	3.65016e-04	3.65016e-04
124.1	3.62973e-04	3.65016e-04	3.65016e-04
124.2	3.61843e-04	3.62744e-04	3.62744e-04
124.3	3.60716e-04	3.62744e-04	3.62744e-04
124.4	3.59593e-04	3.60486e-04	3.60486e-04
124.5	3.58474e-04	3.59362e-04	3.59362e-04
124.6	3.57358e-04	3.59362e-04	3.59362e-04
124.7	3.56245e-04	3.57126e-04	3.57126e-04
124.8	3.55136e-04	3.57126e-04	3.57126e-04
124.9	3.54031e-04	3.54903e-04	3.54903e-04

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x	$A(x)$	P_{v1}	P_{v2}
125.0	3.52928e-04	3.53797e-04	3.53797e-04
125.1	3.51830e-04	3.53797e-04	3.53797e-04
125.2	3.50734e-04	3.51595e-04	3.51595e-04
125.3	3.49642e-04	3.51595e-04	3.51595e-04
125.4	3.48554e-04	3.49406e-04	3.49406e-04
125.5	3.47469e-04	3.48317e-04	3.48317e-04
125.6	3.46387e-04	3.48317e-04	3.48317e-04
125.7	3.45309e-04	3.46149e-04	3.46149e-04
125.8	3.44234e-04	3.46149e-04	3.46149e-04
125.9	3.43162e-04	3.43995e-04	3.43995e-04
126.0	3.42094e-04	3.42922e-04	3.42922e-04
126.1	3.41029e-04	3.42922e-04	3.42922e-04
126.2	3.39967e-04	3.40788e-04	3.40788e-04
126.3	3.38909e-04	3.40788e-04	3.40788e-04
126.4	3.37853e-04	3.38667e-04	3.38667e-04
126.5	3.36802e-04	3.37611e-04	3.37611e-04
126.6	3.35753e-04	3.37611e-04	3.37611e-04
126.7	3.34708e-04	3.35510e-04	3.35510e-04
126.8	3.33666e-04	3.35510e-04	3.35510e-04
126.9	3.32627e-04	3.33422e-04	3.33422e-04
127.0	3.31592e-04	3.32382e-04	3.32382e-04
127.1	3.30559e-04	3.32382e-04	3.32382e-04
127.2	3.29530e-04	3.30314e-04	3.30314e-04
127.3	3.28504e-04	3.30314e-04	3.30314e-04
127.4	3.27482e-04	3.28258e-04	3.28258e-04
127.5	3.26462e-04	3.27235e-04	3.27235e-04
127.6	3.25446e-04	3.27235e-04	3.27235e-04
127.7	3.24432e-04	3.25198e-04	3.25198e-04
127.8	3.23422e-04	3.25198e-04	3.25198e-04
127.9	3.22416e-04	3.23174e-04	3.23174e-04
128.0	3.21412e-04	3.22166e-04	3.22166e-04
128.1	3.20411e-04	3.21162e-04	3.21162e-04
128.2	3.19414e-04	3.21162e-04	3.21162e-04
128.3	3.18419e-04	3.19163e-04	3.19163e-04
128.4	3.17428e-04	3.18169e-04	3.18169e-04
128.5	3.16440e-04	3.17177e-04	3.17177e-04
128.6	3.15455e-04	3.16188e-04	3.16188e-04
128.7	3.14473e-04	3.16188e-04	3.16188e-04
128.8	3.13494e-04	3.14220e-04	3.14220e-04
128.9	3.12518e-04	3.13241e-04	3.13241e-04

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x	$A(x)$	P_{v1}	P_{v2}
129.0	3.11545e-04	3.12264e-04	3.12264e-04
129.1	3.10575e-04	3.11291e-04	3.11291e-04
129.2	3.09608e-04	3.11291e-04	3.11291e-04
129.3	3.08644e-04	3.09354e-04	3.09354e-04
129.4	3.07683e-04	3.08389e-04	3.08389e-04
129.5	3.06725e-04	3.07428e-04	3.07428e-04
129.6	3.05770e-04	3.06470e-04	3.06470e-04
129.7	3.04818e-04	3.06470e-04	3.06470e-04
129.8	3.03869e-04	3.04562e-04	3.04562e-04
129.9	3.02923e-04	3.03613e-04	3.03613e-04
130.0	3.01980e-04	3.02667e-04	3.02667e-04
130.1	3.01040e-04	3.01723e-04	3.01723e-04
130.2	3.00103e-04	3.01723e-04	3.01723e-04
130.3	2.99169e-04	2.99845e-04	2.99845e-04
130.4	2.98237e-04	2.98911e-04	2.98911e-04
130.5	2.97309e-04	2.97979e-04	2.97979e-04
130.6	2.96383e-04	2.97050e-04	2.97050e-04
130.7	2.95461e-04	2.97050e-04	2.97050e-04
130.8	2.94541e-04	2.95201e-04	2.95201e-04
130.9	2.93624e-04	2.94281e-04	2.94281e-04
131.0	2.92710e-04	2.93364e-04	2.93364e-04
131.1	2.91798e-04	2.92450e-04	2.92450e-04
131.2	2.90890e-04	2.92450e-04	2.92450e-04
131.3	2.89984e-04	2.90629e-04	2.90629e-04
131.4	2.89082e-04	2.89724e-04	2.89724e-04
131.5	2.88182e-04	2.88821e-04	2.88821e-04
131.6	2.87284e-04	2.87920e-04	2.87920e-04
131.7	2.86390e-04	2.87920e-04	2.87920e-04
131.8	2.85498e-04	2.86128e-04	2.86128e-04
131.9	2.84610e-04	2.85236e-04	2.85236e-04
132.0	2.83724e-04	2.84347e-04	2.84347e-04
132.1	2.82840e-04	2.83461e-04	2.83461e-04
132.2	2.81960e-04	2.83461e-04	2.83461e-04
132.3	2.81082e-04	2.81697e-04	2.81697e-04
132.4	2.80207e-04	2.80819e-04	2.80819e-04
132.5	2.79335e-04	2.79943e-04	2.79943e-04
132.6	2.78465e-04	2.79071e-04	2.79071e-04
132.7	2.77598e-04	2.79071e-04	2.79071e-04
132.8	2.76734e-04	2.77334e-04	2.77334e-04
132.9	2.75872e-04	2.76469e-04	2.76469e-04

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x	$A(x)$	P_{v1}	P_{v2}
133.0	2.75013e-04	2.75608e-04	2.75608e-04
133.1	2.74157e-04	2.74749e-04	2.74749e-04
133.2	2.73304e-04	2.74749e-04	2.74749e-04
133.3	2.72453e-04	2.73039e-04	2.73039e-04
133.4	2.71605e-04	2.72188e-04	2.72188e-04
133.5	2.70759e-04	2.71339e-04	2.71339e-04
133.6	2.69916e-04	2.70493e-04	2.70493e-04
133.7	2.69076e-04	2.70493e-04	2.70493e-04
133.8	2.68238e-04	2.68810e-04	2.68810e-04
133.9	2.67403e-04	2.67972e-04	2.67972e-04
134.0	2.66571e-04	2.67137e-04	2.67137e-04
134.1	2.65741e-04	2.66304e-04	2.66304e-04
134.2	2.64913e-04	2.66304e-04	2.66304e-04
134.3	2.64089e-04	2.64647e-04	2.64647e-04
134.4	2.63266e-04	2.63822e-04	2.63822e-04
134.5	2.62447e-04	2.62999e-04	2.62999e-04
134.6	2.61630e-04	2.62180e-04	2.62180e-04
134.7	2.60815e-04	2.62180e-04	2.62180e-04
134.8	2.60003e-04	2.60548e-04	2.60548e-04
134.9	2.59194e-04	2.59736e-04	2.59736e-04
135.0	2.58387e-04	2.58926e-04	2.58926e-04
135.1	2.57583e-04	2.58119e-04	2.58119e-04
135.2	2.56781e-04	2.58119e-04	2.58119e-04
135.3	2.55981e-04	2.56512e-04	2.56512e-04
135.4	2.55184e-04	2.55713e-04	2.55713e-04
135.5	2.54390e-04	2.54916e-04	2.54916e-04
135.6	2.53598e-04	2.54121e-04	2.54121e-04
135.7	2.52808e-04	2.54121e-04	2.54121e-04
135.8	2.52021e-04	2.52540e-04	2.52540e-04
135.9	2.51237e-04	2.51752e-04	2.51752e-04
136.0	2.50455e-04	2.50968e-04	2.50968e-04
136.1	2.49675e-04	2.50186e-04	2.50186e-04
136.2	2.48898e-04	2.50186e-04	2.50186e-04
136.3	2.48123e-04	2.48628e-04	2.48628e-04
136.4	2.47350e-04	2.47853e-04	2.47853e-04
136.5	2.46580e-04	2.47081e-04	2.47081e-04
136.6	2.45813e-04	2.46311e-04	2.46311e-04
136.7	2.45047e-04	2.46311e-04	2.46311e-04
136.8	2.44284e-04	2.44778e-04	2.44778e-04
136.9	2.43524e-04	2.44015e-04	2.44015e-04

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x	$A(x)$	P_{v1}	P_{v2}
137.0	2.42766e-04	2.43254e-04	2.43254e-04
137.1	2.42010e-04	2.42496e-04	2.42496e-04
137.2	2.41256e-04	2.42496e-04	2.42496e-04
137.3	2.40505e-04	2.40987e-04	2.40987e-04
137.4	2.39757e-04	2.40235e-04	2.40235e-04
137.5	2.39010e-04	2.39487e-04	2.39487e-04
137.6	2.38266e-04	2.38740e-04	2.38740e-04
137.7	2.37524e-04	2.38740e-04	2.38740e-04
137.8	2.36785e-04	2.37254e-04	2.37254e-04
137.9	2.36048e-04	2.36515e-04	2.36515e-04
138.0	2.35313e-04	2.35778e-04	2.35778e-04
138.1	2.34580e-04	2.35043e-04	2.35043e-04
138.2	2.33850e-04	2.35043e-04	2.35043e-04
138.3	2.33122e-04	2.33580e-04	2.33580e-04
138.4	2.32396e-04	2.32852e-04	2.32852e-04
138.5	2.31673e-04	2.32126e-04	2.32126e-04
138.6	2.30951e-04	2.31402e-04	2.31402e-04
138.7	2.30232e-04	2.31402e-04	2.31402e-04
138.8	2.29516e-04	2.29962e-04	2.29962e-04
138.9	2.28801e-04	2.29245e-04	2.29245e-04
139.0	2.28089e-04	2.28531e-04	2.28531e-04
139.1	2.27379e-04	2.27818e-04	2.27818e-04
139.2	2.26671e-04	2.27818e-04	2.27818e-04
139.3	2.25965e-04	2.26400e-04	2.26400e-04
139.4	2.25262e-04	2.25695e-04	2.25695e-04
139.5	2.24560e-04	2.24991e-04	2.24991e-04
139.6	2.23861e-04	2.24290e-04	2.24290e-04
139.7	2.23164e-04	2.24290e-04	2.24290e-04
139.8	2.22470e-04	2.22894e-04	2.22894e-04
139.9	2.21777e-04	2.22199e-04	2.22199e-04
140.0	2.21087e-04	2.21507e-04	2.21507e-04
140.1	2.20398e-04	2.20816e-04	2.20816e-04
140.2	2.19712e-04	2.20816e-04	2.20816e-04
140.3	2.19028e-04	2.19442e-04	2.19442e-04
140.4	2.18346e-04	2.18758e-04	2.18758e-04
140.5	2.17667e-04	2.18076e-04	2.18076e-04
140.6	2.16989e-04	2.17396e-04	2.17396e-04
140.7	2.16313e-04	2.17396e-04	2.17396e-04
140.8	2.15640e-04	2.16043e-04	2.16043e-04
140.9	2.14969e-04	2.15370e-04	2.15370e-04

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x	$A(x)$	P_{v1}	P_{v2}
141.0	2.14299e-04	2.14699e-04	2.14699e-04
141.1	2.13632e-04	2.14029e-04	2.14029e-04
141.2	2.12967e-04	2.14029e-04	2.14029e-04
141.3	2.12304e-04	2.12697e-04	2.12697e-04
141.4	2.11643e-04	2.12034e-04	2.12034e-04
141.5	2.10984e-04	2.11373e-04	2.11373e-04
141.6	2.10327e-04	2.10714e-04	2.10714e-04
141.7	2.09673e-04	2.10714e-04	2.10714e-04
141.8	2.09020e-04	2.09403e-04	2.09403e-04
141.9	2.08369e-04	2.08750e-04	2.08750e-04
142.0	2.07720e-04	2.08100e-04	2.08100e-04
142.1	2.07074e-04	2.07451e-04	2.07451e-04
142.2	2.06429e-04	2.07451e-04	2.07451e-04
142.3	2.05786e-04	2.06160e-04	2.06160e-04
142.4	2.05146e-04	2.05517e-04	2.05517e-04
142.5	2.04507e-04	2.04877e-04	2.04877e-04
142.6	2.03870e-04	2.04238e-04	2.04238e-04
142.7	2.03236e-04	2.04238e-04	2.04238e-04
142.8	2.02603e-04	2.02967e-04	2.02967e-04
142.9	2.01972e-04	2.02334e-04	2.02334e-04
143.0	2.01344e-04	2.01703e-04	2.01703e-04
143.1	2.00717e-04	2.01075e-04	2.01075e-04
143.2	2.00092e-04	2.01075e-04	2.01075e-04
143.3	1.99469e-04	1.99823e-04	1.99823e-04
143.4	1.98848e-04	1.99200e-04	1.99200e-04
143.5	1.98229e-04	1.98580e-04	1.98580e-04
143.6	1.97612e-04	1.97961e-04	1.97961e-04
143.7	1.96997e-04	1.97961e-04	1.97961e-04
143.8	1.96383e-04	1.96728e-04	1.96728e-04
143.9	1.95772e-04	1.96115e-04	1.96115e-04
144.0	1.95162e-04	1.95504e-04	1.95504e-04
144.1	1.94555e-04	1.94895e-04	1.94895e-04
144.2	1.93949e-04	1.94895e-04	1.94895e-04
144.3	1.93345e-04	1.93682e-04	1.93682e-04
144.4	1.92743e-04	1.93078e-04	1.93078e-04
144.5	1.92143e-04	1.92476e-04	1.92476e-04
144.6	1.91545e-04	1.91876e-04	1.91876e-04
144.7	1.90949e-04	1.91876e-04	1.91876e-04
144.8	1.90354e-04	1.90682e-04	1.90682e-04
144.9	1.89762e-04	1.90088e-04	1.90088e-04

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x	$A(x)$	P_{v1}	P_{v2}
145.0	1.89171e-04	1.89495e-04	1.89495e-04
145.1	1.88582e-04	1.88904e-04	1.88904e-04
145.2	1.87995e-04	1.88904e-04	1.88904e-04
145.3	1.87410e-04	1.87729e-04	1.87729e-04
145.4	1.86826e-04	1.87143e-04	1.87143e-04
145.5	1.86245e-04	1.86560e-04	1.86560e-04
145.6	1.85665e-04	1.85979e-04	1.85979e-04
145.7	1.85087e-04	1.85979e-04	1.85979e-04
145.8	1.84511e-04	1.84821e-04	1.84821e-04
145.9	1.83936e-04	1.84245e-04	1.84245e-04
146.0	1.83363e-04	1.83671e-04	1.83671e-04
146.1	1.82793e-04	1.83098e-04	1.83098e-04
146.2	1.82224e-04	1.83098e-04	1.83098e-04
146.3	1.81656e-04	1.81959e-04	1.81959e-04
146.4	1.81091e-04	1.81391e-04	1.81391e-04
146.5	1.80527e-04	1.80826e-04	1.80826e-04
146.6	1.79965e-04	1.80262e-04	1.80262e-04
146.7	1.79405e-04	1.80262e-04	1.80262e-04
146.8	1.78846e-04	1.79141e-04	1.79141e-04
146.9	1.78289e-04	1.78582e-04	1.78582e-04
147.0	1.77734e-04	1.78026e-04	1.78026e-04
147.1	1.77181e-04	1.77471e-04	1.77471e-04
147.2	1.76629e-04	1.77471e-04	1.77471e-04
147.3	1.76079e-04	1.76366e-04	1.76366e-04
147.4	1.75531e-04	1.75816e-04	1.75816e-04
147.5	1.74985e-04	1.75268e-04	1.75268e-04
147.6	1.74440e-04	1.74722e-04	1.74722e-04
147.7	1.73897e-04	1.74722e-04	1.74722e-04
147.8	1.73356e-04	1.73634e-04	1.73634e-04
147.9	1.72816e-04	1.73093e-04	1.73093e-04
148.0	1.72278e-04	1.72554e-04	1.72554e-04
148.1	1.71742e-04	1.72016e-04	1.72016e-04
148.2	1.71207e-04	1.72016e-04	1.72016e-04
148.3	1.70674e-04	1.70945e-04	1.70945e-04
148.4	1.70143e-04	1.70412e-04	1.70412e-04
148.5	1.69613e-04	1.69881e-04	1.69881e-04
148.6	1.69085e-04	1.69352e-04	1.69352e-04
148.7	1.68558e-04	1.69352e-04	1.69352e-04
148.8	1.68034e-04	1.68298e-04	1.68298e-04
148.9	1.67511e-04	1.67773e-04	1.67773e-04

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x	$A(x)$	P_{v1}	P_{v2}
149.0	1.66989e-04	1.67250e-04	1.67250e-04
149.1	1.66469e-04	1.66729e-04	1.66729e-04
149.2	1.65951e-04	1.66729e-04	1.66729e-04
149.3	1.65434e-04	1.65691e-04	1.65691e-04
149.4	1.64919e-04	1.65175e-04	1.65175e-04
149.5	1.64406e-04	1.64660e-04	1.64660e-04
149.6	1.63894e-04	1.64147e-04	1.64147e-04
149.7	1.63384e-04	1.64147e-04	1.64147e-04
149.8	1.62875e-04	1.63125e-04	1.63125e-04
149.9	1.62368e-04	1.62617e-04	1.62617e-04
150.0	1.61863e-04	1.62110e-04	1.62110e-04
150.1	1.61359e-04	1.61604e-04	1.61604e-04
150.2	1.60856e-04	1.61604e-04	1.61604e-04
150.3	1.60356e-04	1.60599e-04	1.60599e-04
150.4	1.59856e-04	1.60098e-04	1.60098e-04
150.5	1.59359e-04	1.59599e-04	1.59599e-04
150.6	1.58863e-04	1.59101e-04	1.59101e-04
150.7	1.58368e-04	1.59101e-04	1.59101e-04
150.8	1.57875e-04	1.58111e-04	1.58111e-04
150.9	1.57383e-04	1.57618e-04	1.57618e-04
151.0	1.56893e-04	1.57127e-04	1.57127e-04
151.1	1.56405e-04	1.56637e-04	1.56637e-04
151.2	1.55918e-04	1.56637e-04	1.56637e-04
151.3	1.55433e-04	1.55662e-04	1.55662e-04
151.4	1.54949e-04	1.55177e-04	1.55177e-04
151.5	1.54466e-04	1.54694e-04	1.54694e-04
151.6	1.53986e-04	1.54211e-04	1.54211e-04
151.7	1.53506e-04	1.54211e-04	1.54211e-04
151.8	1.53028e-04	1.53252e-04	1.53252e-04
151.9	1.52552e-04	1.52774e-04	1.52774e-04
152.0	1.52077e-04	1.52298e-04	1.52298e-04
152.1	1.51603e-04	1.51823e-04	1.51823e-04
152.2	1.51131e-04	1.51823e-04	1.51823e-04
152.3	1.50661e-04	1.50878e-04	1.50878e-04
152.4	1.50192e-04	1.50408e-04	1.50408e-04
152.5	1.49724e-04	1.49939e-04	1.49939e-04
152.6	1.49258e-04	1.49472e-04	1.49472e-04
152.7	1.48794e-04	1.49472e-04	1.49472e-04
152.8	1.48330e-04	1.48541e-04	1.48541e-04
152.9	1.47869e-04	1.48078e-04	1.48078e-04

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x	$A(x)$	P_{v1}	P_{v2}
153.0	1.47408e-04	1.47617e-04	1.47617e-04
153.1	1.46949e-04	1.47157e-04	1.47157e-04
153.2	1.46492e-04	1.47157e-04	1.47157e-04
153.3	1.46036e-04	1.46241e-04	1.46241e-04
153.4	1.45581e-04	1.45785e-04	1.45785e-04
153.5	1.45128e-04	1.45330e-04	1.45330e-04
153.6	1.44676e-04	1.45330e-04	1.45330e-04
153.7	1.44226e-04	1.45330e-04	1.45330e-04
153.8	1.43777e-04	1.43976e-04	1.43976e-04
153.9	1.43329e-04	1.43527e-04	1.43527e-04
154.0	1.42883e-04	1.43080e-04	1.43080e-04
154.1	1.42438e-04	1.43080e-04	1.43080e-04
154.2	1.41995e-04	1.43080e-04	1.43080e-04
154.3	1.41552e-04	1.41746e-04	1.41746e-04
154.4	1.41112e-04	1.41304e-04	1.41304e-04
154.5	1.40672e-04	1.40864e-04	1.40864e-04
154.6	1.40235e-04	1.40864e-04	1.40864e-04
154.7	1.39798e-04	1.40864e-04	1.40864e-04
154.8	1.39363e-04	1.39551e-04	1.39551e-04
154.9	1.38929e-04	1.39116e-04	1.39116e-04
155.0	1.38496e-04	1.38682e-04	1.38682e-04
155.1	1.38065e-04	1.38682e-04	1.38682e-04
155.2	1.37635e-04	1.38682e-04	1.38682e-04
155.3	1.37207e-04	1.37389e-04	1.37389e-04
155.4	1.36780e-04	1.36961e-04	1.36961e-04
155.5	1.36354e-04	1.36534e-04	1.36534e-04
155.6	1.35929e-04	1.36534e-04	1.36534e-04
155.7	1.35506e-04	1.36534e-04	1.36534e-04
155.8	1.35084e-04	1.35261e-04	1.35261e-04
155.9	1.34664e-04	1.34840e-04	1.34840e-04
156.0	1.34245e-04	1.34419e-04	1.34419e-04
156.1	1.33827e-04	1.34419e-04	1.34419e-04
156.2	1.33410e-04	1.34419e-04	1.34419e-04
156.3	1.32995e-04	1.33166e-04	1.33166e-04
156.4	1.32581e-04	1.32751e-04	1.32751e-04
156.5	1.32168e-04	1.32338e-04	1.32338e-04
156.6	1.31756e-04	1.32338e-04	1.32338e-04
156.7	1.31346e-04	1.32338e-04	1.32338e-04
156.8	1.30937e-04	1.31104e-04	1.31104e-04
156.9	1.30530e-04	1.30695e-04	1.30695e-04

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x	$A(x)$	P_{v1}	P_{v2}
157.0	1.30123e-04	1.30288e-04	1.30288e-04
157.1	1.29718e-04	1.30288e-04	1.30288e-04
157.2	1.29314e-04	1.30288e-04	1.30288e-04
157.3	1.28912e-04	1.29073e-04	1.29073e-04
157.4	1.28510e-04	1.28671e-04	1.28671e-04
157.5	1.28110e-04	1.28270e-04	1.28270e-04
157.6	1.27712e-04	1.28270e-04	1.28270e-04
157.7	1.27314e-04	1.28270e-04	1.28270e-04
157.8	1.26918e-04	1.27074e-04	1.27074e-04
157.9	1.26522e-04	1.26678e-04	1.26678e-04
158.0	1.26129e-04	1.26283e-04	1.26283e-04
158.1	1.25736e-04	1.26283e-04	1.26283e-04
158.2	1.25344e-04	1.26283e-04	1.26283e-04
158.3	1.24954e-04	1.25106e-04	1.25106e-04
158.4	1.24565e-04	1.24716e-04	1.24716e-04
158.5	1.24177e-04	1.24328e-04	1.24328e-04
158.6	1.23791e-04	1.24328e-04	1.24328e-04
158.7	1.23405e-04	1.24328e-04	1.24328e-04
158.8	1.23021e-04	1.23169e-04	1.23169e-04
158.9	1.22638e-04	1.22785e-04	1.22785e-04
159.0	1.22256e-04	1.22402e-04	1.22402e-04
159.1	1.21876e-04	1.22402e-04	1.22402e-04
159.2	1.21496e-04	1.22402e-04	1.22402e-04
159.3	1.21118e-04	1.21261e-04	1.21261e-04
159.4	1.20741e-04	1.20883e-04	1.20883e-04
159.5	1.20365e-04	1.20506e-04	1.20506e-04
159.6	1.19991e-04	1.20506e-04	1.20506e-04
159.7	1.19617e-04	1.20506e-04	1.20506e-04
159.8	1.19245e-04	1.19383e-04	1.19383e-04
159.9	1.18873e-04	1.19011e-04	1.19011e-04
160.0	1.18503e-04	1.18640e-04	1.18640e-04
160.1	1.18134e-04	1.18640e-04	1.18640e-04
160.2	1.17767e-04	1.18640e-04	1.18640e-04
160.3	1.17400e-04	1.17534e-04	1.17534e-04
160.4	1.17034e-04	1.17168e-04	1.17168e-04
160.5	1.16670e-04	1.16802e-04	1.16802e-04
160.6	1.16307e-04	1.16802e-04	1.16802e-04
160.7	1.15945e-04	1.16802e-04	1.16802e-04
160.8	1.15584e-04	1.15714e-04	1.15714e-04
160.9	1.15224e-04	1.15353e-04	1.15353e-04

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x	$A(x)$	P_{v1}	P_{v2}
161.0	1.14865e-04	1.14993e-04	1.14993e-04
161.1	1.14508e-04	1.14993e-04	1.14993e-04
161.2	1.14151e-04	1.14993e-04	1.14993e-04
161.3	1.13796e-04	1.13922e-04	1.13922e-04
161.4	1.13442e-04	1.13566e-04	1.13566e-04
161.5	1.13088e-04	1.13212e-04	1.13212e-04
161.6	1.12736e-04	1.13212e-04	1.13212e-04
161.7	1.12385e-04	1.13212e-04	1.13212e-04
161.8	1.12035e-04	1.12157e-04	1.12157e-04
161.9	1.11687e-04	1.11808e-04	1.11808e-04
162.0	1.11339e-04	1.11459e-04	1.11459e-04
162.1	1.10992e-04	1.11459e-04	1.11459e-04
162.2	1.10647e-04	1.11459e-04	1.11459e-04
162.3	1.10302e-04	1.10420e-04	1.10420e-04
162.4	1.09959e-04	1.10076e-04	1.10076e-04
162.5	1.09617e-04	1.09733e-04	1.09733e-04
162.6	1.09275e-04	1.09733e-04	1.09733e-04
162.7	1.08935e-04	1.09733e-04	1.09733e-04
162.8	1.08596e-04	1.08710e-04	1.08710e-04
162.9	1.08258e-04	1.08371e-04	1.08371e-04
163.0	1.07921e-04	1.08033e-04	1.08033e-04
163.1	1.07585e-04	1.08033e-04	1.08033e-04
163.2	1.07250e-04	1.08033e-04	1.08033e-04
163.3	1.06916e-04	1.07026e-04	1.07026e-04
163.4	1.06583e-04	1.06693e-04	1.06693e-04
163.5	1.06251e-04	1.06360e-04	1.06360e-04
163.6	1.05921e-04	1.06360e-04	1.06360e-04
163.7	1.05591e-04	1.06360e-04	1.06360e-04
163.8	1.05262e-04	1.05369e-04	1.05369e-04
163.9	1.04934e-04	1.05040e-04	1.05040e-04
164.0	1.04608e-04	1.04713e-04	1.04713e-04
164.1	1.04282e-04	1.04713e-04	1.04713e-04
164.2	1.03957e-04	1.04713e-04	1.04713e-04
164.3	1.03634e-04	1.03737e-04	1.03737e-04
164.4	1.03311e-04	1.03413e-04	1.03413e-04
164.5	1.02990e-04	1.03091e-04	1.03091e-04
164.6	1.02669e-04	1.03091e-04	1.03091e-04
164.7	1.02349e-04	1.03091e-04	1.03091e-04
164.8	1.02031e-04	1.02130e-04	1.02130e-04
164.9	1.01713e-04	1.01812e-04	1.01812e-04

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x	$A(x)$	P_{v1}	P_{v2}
165.0	1.01396e-04	1.01494e-04	1.01494e-04
165.1	1.01081e-04	1.01494e-04	1.01494e-04
165.2	1.00766e-04	1.01494e-04	1.01494e-04
165.3	1.00452e-04	1.00548e-04	1.00548e-04
165.4	1.00140e-04	1.00235e-04	1.00235e-04
165.5	9.98278e-05	9.99225e-05	9.99225e-05
165.6	9.95170e-05	9.99225e-05	9.99225e-05
165.7	9.92072e-05	9.99225e-05	9.99225e-05
165.8	9.88983e-05	9.89910e-05	9.89910e-05
165.9	9.85904e-05	9.86825e-05	9.86825e-05
166.0	9.82835e-05	9.83749e-05	9.83749e-05
166.1	9.79775e-05	9.83749e-05	9.83749e-05
166.2	9.76725e-05	9.83749e-05	9.83749e-05
166.3	9.73684e-05	9.74579e-05	9.74579e-05
166.4	9.70653e-05	9.71541e-05	9.71541e-05
166.5	9.67631e-05	9.68513e-05	9.68513e-05
166.6	9.64619e-05	9.68513e-05	9.68513e-05
166.7	9.61616e-05	9.68513e-05	9.68513e-05
166.8	9.58622e-05	9.59484e-05	9.59484e-05
166.9	9.55638e-05	9.56494e-05	9.56494e-05
167.0	9.52662e-05	9.53512e-05	9.53512e-05
167.1	9.49697e-05	9.53512e-05	9.53512e-05
167.2	9.46740e-05	9.53512e-05	9.53512e-05
167.3	9.43793e-05	9.44624e-05	9.44624e-05
167.4	9.40854e-05	9.41680e-05	9.41680e-05
167.5	9.37925e-05	9.38745e-05	9.38745e-05
167.6	9.35005e-05	9.38745e-05	9.38745e-05
167.7	9.32094e-05	9.38745e-05	9.38745e-05
167.8	9.29193e-05	9.29994e-05	9.29994e-05
167.9	9.26300e-05	9.27095e-05	9.27095e-05
168.0	9.23416e-05	9.24206e-05	9.24206e-05
168.1	9.20541e-05	9.24206e-05	9.24206e-05
168.2	9.17675e-05	9.24206e-05	9.24206e-05
168.3	9.14819e-05	9.15590e-05	9.15590e-05
168.4	9.11970e-05	9.12737e-05	9.12737e-05
168.5	9.09131e-05	9.09892e-05	9.09892e-05
168.6	9.06301e-05	9.09892e-05	9.09892e-05
168.7	9.03479e-05	9.09892e-05	9.09892e-05
168.8	9.00667e-05	9.01410e-05	9.01410e-05
168.9	8.97863e-05	8.98600e-05	8.98600e-05

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x	$A(x)$	P_{v1}	P_{v2}
169.0	8.95068e-05	8.95799e-05	8.95799e-05
169.1	8.92281e-05	8.95799e-05	8.95799e-05
169.2	8.89503e-05	8.95799e-05	8.95799e-05
169.3	8.86734e-05	8.87449e-05	8.87449e-05
169.4	8.83973e-05	8.84683e-05	8.84683e-05
169.5	8.81221e-05	8.81926e-05	8.81926e-05
169.6	8.78478e-05	8.81926e-05	8.81926e-05
169.7	8.75743e-05	8.81926e-05	8.81926e-05
169.8	8.73017e-05	8.73704e-05	8.73704e-05
169.9	8.70299e-05	8.70981e-05	8.70981e-05
170.0	8.67589e-05	8.68266e-05	8.68266e-05
170.1	8.64888e-05	8.68266e-05	8.68266e-05
170.2	8.62196e-05	8.68266e-05	8.68266e-05
170.3	8.59512e-05	8.60173e-05	8.60173e-05
170.4	8.56836e-05	8.57492e-05	8.57492e-05
170.5	8.54168e-05	8.54819e-05	8.54819e-05
170.6	8.51509e-05	8.54819e-05	8.54819e-05
170.7	8.48858e-05	8.54819e-05	8.54819e-05
170.8	8.46215e-05	8.46851e-05	8.46851e-05
170.9	8.43581e-05	8.44211e-05	8.44211e-05
171.0	8.40955e-05	8.41580e-05	8.41580e-05
171.1	8.38337e-05	8.41580e-05	8.41580e-05
171.2	8.35727e-05	8.41580e-05	8.41580e-05
171.3	8.33125e-05	8.33735e-05	8.33735e-05
171.4	8.30531e-05	8.31136e-05	8.31136e-05
171.5	8.27946e-05	8.28545e-05	8.28545e-05
171.6	8.25368e-05	8.28545e-05	8.28545e-05
171.7	8.22798e-05	8.28545e-05	8.28545e-05
171.8	8.20237e-05	8.20822e-05	8.20822e-05
171.9	8.17683e-05	8.18264e-05	8.18264e-05
172.0	8.15138e-05	8.15713e-05	8.15713e-05
172.1	8.12600e-05	8.15713e-05	8.15713e-05
172.2	8.10070e-05	8.15713e-05	8.15713e-05
172.3	8.07548e-05	8.08109e-05	8.08109e-05
172.4	8.05034e-05	8.05590e-05	8.05590e-05
172.5	8.02528e-05	8.03079e-05	8.03079e-05
172.6	8.00030e-05	8.03079e-05	8.03079e-05
172.7	7.97539e-05	8.03079e-05	8.03079e-05
172.8	7.95056e-05	7.95593e-05	7.95593e-05
172.9	7.92581e-05	7.93114e-05	7.93114e-05

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x	$A(x)$	P_{v1}	P_{v2}
173.0	7.90113e-05	7.90642e-05	7.90642e-05
173.1	7.87654e-05	7.90642e-05	7.90642e-05
173.2	7.85201e-05	7.90642e-05	7.90642e-05
173.3	7.82757e-05	7.83271e-05	7.83271e-05
173.4	7.80320e-05	7.80830e-05	7.80830e-05
173.5	7.77891e-05	7.78396e-05	7.78396e-05
173.6	7.75469e-05	7.78396e-05	7.78396e-05
173.7	7.73055e-05	7.78396e-05	7.78396e-05
173.8	7.70648e-05	7.71140e-05	7.71140e-05
173.9	7.68249e-05	7.68737e-05	7.68737e-05
174.0	7.65857e-05	7.66341e-05	7.66341e-05
174.1	7.63473e-05	7.66341e-05	7.66341e-05
174.2	7.61096e-05	7.66341e-05	7.66341e-05
174.3	7.58727e-05	7.59197e-05	7.59197e-05
174.4	7.56364e-05	7.56831e-05	7.56831e-05
174.5	7.54010e-05	7.54472e-05	7.54472e-05
174.6	7.51662e-05	7.54472e-05	7.54472e-05
174.7	7.49322e-05	7.54472e-05	7.54472e-05
174.8	7.46989e-05	7.47439e-05	7.47439e-05
174.9	7.44664e-05	7.45109e-05	7.45109e-05
175.0	7.42346e-05	7.42787e-05	7.42787e-05
175.1	7.40035e-05	7.42787e-05	7.42787e-05
175.2	7.37731e-05	7.42787e-05	7.42787e-05
175.3	7.35434e-05	7.35863e-05	7.35863e-05
175.4	7.33144e-05	7.33569e-05	7.33569e-05
175.5	7.30862e-05	7.31282e-05	7.31282e-05
175.6	7.28587e-05	7.31282e-05	7.31282e-05
175.7	7.26318e-05	7.31282e-05	7.31282e-05
175.8	7.24057e-05	7.24466e-05	7.24466e-05
175.9	7.21803e-05	7.22208e-05	7.22208e-05
176.0	7.19556e-05	7.19956e-05	7.19956e-05
176.1	7.17316e-05	7.19956e-05	7.19956e-05
176.2	7.15083e-05	7.19956e-05	7.19956e-05
176.3	7.12856e-05	7.13245e-05	7.13245e-05
176.4	7.10637e-05	7.11022e-05	7.11022e-05
176.5	7.08425e-05	7.08806e-05	7.08806e-05
176.6	7.06219e-05	7.08806e-05	7.08806e-05
176.7	7.04021e-05	7.08806e-05	7.08806e-05
176.8	7.01829e-05	7.02199e-05	7.02199e-05
176.9	6.99644e-05	7.00010e-05	7.00010e-05

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x	$A(x)$	P_{v1}	P_{v2}
177.0	6.97466e-05	6.97828e-05	6.97828e-05
177.1	6.95294e-05	6.97828e-05	6.97828e-05
177.2	6.93130e-05	6.97828e-05	6.97828e-05
177.3	6.90972e-05	6.91323e-05	6.91323e-05
177.4	6.88821e-05	6.89168e-05	6.89168e-05
177.5	6.86676e-05	6.87020e-05	6.87020e-05
177.6	6.84539e-05	6.87020e-05	6.87020e-05
177.7	6.82408e-05	6.87020e-05	6.87020e-05
177.8	6.80283e-05	6.80616e-05	6.80616e-05
177.9	6.78165e-05	6.78495e-05	6.78495e-05
178.0	6.76054e-05	6.76380e-05	6.76380e-05
178.1	6.73949e-05	6.76380e-05	6.76380e-05
178.2	6.71851e-05	6.76380e-05	6.76380e-05
178.3	6.69759e-05	6.70075e-05	6.70075e-05
178.4	6.67674e-05	6.67986e-05	6.67986e-05
178.5	6.65596e-05	6.65904e-05	6.65904e-05
178.6	6.63524e-05	6.65904e-05	6.65904e-05
178.7	6.61458e-05	6.65904e-05	6.65904e-05
178.8	6.59399e-05	6.59697e-05	6.59697e-05
178.9	6.57346e-05	6.57641e-05	6.57641e-05
179.0	6.55299e-05	6.55591e-05	6.55591e-05
179.1	6.53259e-05	6.55591e-05	6.55591e-05
179.2	6.51225e-05	6.55591e-05	6.55591e-05
179.3	6.49198e-05	6.49480e-05	6.49480e-05
179.4	6.47177e-05	6.47455e-05	6.47455e-05
179.5	6.45162e-05	6.45437e-05	6.45437e-05
179.6	6.43154e-05	6.45437e-05	6.45437e-05
179.7	6.41151e-05	6.45437e-05	6.45437e-05
179.8	6.39155e-05	6.39421e-05	6.39421e-05
179.9	6.37166e-05	6.37428e-05	6.37428e-05
180.0	6.35182e-05	6.35441e-05	6.35441e-05
180.1	6.33204e-05	6.35441e-05	6.35441e-05
180.2	6.31233e-05	6.35441e-05	6.35441e-05
180.3	6.29268e-05	6.29517e-05	6.29517e-05
180.4	6.27309e-05	6.27555e-05	6.27555e-05
180.5	6.25356e-05	6.25599e-05	6.25599e-05
180.6	6.23409e-05	6.25599e-05	6.25599e-05
180.7	6.21468e-05	6.25599e-05	6.25599e-05
180.8	6.19534e-05	6.19768e-05	6.19768e-05
180.9	6.17605e-05	6.17836e-05	6.17836e-05

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x	$A(x)$	P_{v1}	P_{v2}
181.0	6.15682e-05	6.15910e-05	6.15910e-05
181.1	6.13765e-05	6.15910e-05	6.15910e-05
181.2	6.11855e-05	6.15910e-05	6.15910e-05
181.3	6.09950e-05	6.10169e-05	6.10169e-05
181.4	6.08051e-05	6.08267e-05	6.08267e-05
181.5	6.06158e-05	6.06371e-05	6.06371e-05
181.6	6.04271e-05	6.06371e-05	6.06371e-05
181.7	6.02389e-05	6.06371e-05	6.06371e-05
181.8	6.00514e-05	6.00719e-05	6.00719e-05
181.9	5.98645e-05	5.98846e-05	5.98846e-05
182.0	5.96781e-05	5.96980e-05	5.96980e-05
182.1	5.94923e-05	5.96980e-05	5.96980e-05
182.2	5.93071e-05	5.96980e-05	5.96980e-05
182.3	5.91224e-05	5.91415e-05	5.91415e-05
182.4	5.89384e-05	5.89571e-05	5.89571e-05
182.5	5.87549e-05	5.87734e-05	5.87734e-05
182.6	5.85720e-05	5.87734e-05	5.87734e-05
182.7	5.83896e-05	5.87734e-05	5.87734e-05
182.8	5.82079e-05	5.82255e-05	5.82255e-05
182.9	5.80266e-05	5.80440e-05	5.80440e-05
183.0	5.78460e-05	5.78631e-05	5.78631e-05
183.1	5.76659e-05	5.78631e-05	5.78631e-05
183.2	5.74864e-05	5.78631e-05	5.78631e-05
183.3	5.73074e-05	5.73237e-05	5.73237e-05
183.4	5.71290e-05	5.71450e-05	5.71450e-05
183.5	5.69511e-05	5.69669e-05	5.69669e-05
183.6	5.67738e-05	5.69669e-05	5.69669e-05
183.7	5.65971e-05	5.69669e-05	5.69669e-05
183.8	5.64209e-05	5.64359e-05	5.64359e-05
183.9	5.62452e-05	5.62600e-05	5.62600e-05
184.0	5.60701e-05	5.60846e-05	5.60846e-05
184.1	5.58956e-05	5.60846e-05	5.60846e-05
184.2	5.57216e-05	5.60846e-05	5.60846e-05
184.3	5.55481e-05	5.55618e-05	5.55618e-05
184.4	5.53752e-05	5.53887e-05	5.53887e-05
184.5	5.52028e-05	5.52160e-05	5.52160e-05
184.6	5.50309e-05	5.52160e-05	5.52160e-05
184.7	5.48596e-05	5.52160e-05	5.52160e-05
184.8	5.46888e-05	5.47013e-05	5.47013e-05
184.9	5.45185e-05	5.45308e-05	5.45308e-05

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x	$A(x)$	P_{v1}	P_{v2}
185.0	5.43488e-05	5.43608e-05	5.43608e-05
185.1	5.41796e-05	5.43608e-05	5.43608e-05
185.2	5.40109e-05	5.43608e-05	5.43608e-05
185.3	5.38428e-05	5.38541e-05	5.38541e-05
185.4	5.36752e-05	5.36862e-05	5.36862e-05
185.5	5.35081e-05	5.35189e-05	5.35189e-05
185.6	5.33415e-05	5.35189e-05	5.35189e-05
185.7	5.31754e-05	5.35189e-05	5.35189e-05
185.8	5.30099e-05	5.30200e-05	5.30200e-05
185.9	5.28448e-05	5.28548e-05	5.28548e-05
186.0	5.26803e-05	5.26900e-05	5.26900e-05
186.1	5.25163e-05	5.26900e-05	5.26900e-05
186.2	5.23528e-05	5.26900e-05	5.26900e-05
186.3	5.21898e-05	5.21989e-05	5.21989e-05
186.4	5.20274e-05	5.20362e-05	5.20362e-05
186.5	5.18654e-05	5.18740e-05	5.18740e-05
186.6	5.17039e-05	5.18740e-05	5.18740e-05
186.7	5.15430e-05	5.18740e-05	5.18740e-05
186.8	5.13825e-05	5.13904e-05	5.13904e-05
186.9	5.12225e-05	5.12302e-05	5.12302e-05
187.0	5.10631e-05	5.10705e-05	5.10705e-05
187.1	5.09041e-05	5.10705e-05	5.10705e-05
187.2	5.07456e-05	5.10705e-05	5.10705e-05
187.3	5.05876e-05	5.05945e-05	5.05945e-05
187.4	5.04301e-05	5.04368e-05	5.04368e-05
187.5	5.02731e-05	5.02796e-05	5.02796e-05
187.6	5.01166e-05	5.02796e-05	5.02796e-05
187.7	4.99606e-05	5.02796e-05	5.02796e-05
187.8	4.98051e-05	4.98109e-05	4.98109e-05
187.9	4.96500e-05	4.96556e-05	4.96556e-05
188.0	4.94954e-05	4.95009e-05	4.95009e-05
188.1	4.93414e-05	4.95009e-05	4.95009e-05
188.2	4.91877e-05	4.95009e-05	4.95009e-05
188.3	4.90346e-05	4.90394e-05	4.90394e-05
188.4	4.88820e-05	4.88866e-05	4.88866e-05
188.5	4.87298e-05	4.87342e-05	4.87342e-05
188.6	4.85781e-05	4.87342e-05	4.87342e-05
188.7	4.84268e-05	4.87342e-05	4.87342e-05
188.8	4.82761e-05	4.82799e-05	4.82799e-05
188.9	4.81258e-05	4.81294e-05	4.81294e-05

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x	$A(x)$	P_{v1}	P_{v2}
189.0	4.79760e-05	4.79794e-05	4.79794e-05
189.1	4.78266e-05	4.79794e-05	4.79794e-05
189.2	4.76777e-05	4.79794e-05	4.79794e-05
189.3	4.75293e-05	4.75322e-05	4.75322e-05
189.4	4.73813e-05	4.73840e-05	4.73840e-05
189.5	4.72338e-05	4.72363e-05	4.72363e-05
189.6	4.70867e-05	4.72363e-05	4.72363e-05
189.7	4.69402e-05	4.72363e-05	4.72363e-05
189.8	4.67940e-05	4.67960e-05	4.67960e-05
189.9	4.66483e-05	4.66501e-05	4.66501e-05
190.0	4.65031e-05	4.65047e-05	4.65047e-05
190.1	4.63583e-05	4.65047e-05	4.65047e-05
190.2	4.62140e-05	4.65047e-05	4.65047e-05
190.3	4.60701e-05	4.60712e-05	4.60712e-05
190.4	4.59267e-05	4.59276e-05	4.59276e-05
190.5	4.57837e-05	4.57845e-05	4.57845e-05
190.6	4.56412e-05	4.57845e-05	4.57845e-05
190.7	4.54991e-05	4.57845e-05	4.57845e-05
190.8	4.53575e-05	4.53577e-05	4.53577e-05
190.9	4.52163e-05	4.52163e-05	4.52163e-05
191.0	4.50755e-05	4.50754e-05	4.50754e-05
191.1	4.49352e-05	4.50754e-05	4.50754e-05
191.2	4.47953e-05	4.50754e-05	4.50754e-05
191.3	4.46558e-05	4.46552e-05	4.46552e-05
191.4	4.45168e-05	4.45160e-05	4.45160e-05
191.5	4.43782e-05	4.43773e-05	4.43773e-05
191.6	4.42400e-05	4.43773e-05	4.43773e-05
191.7	4.41023e-05	4.43773e-05	4.43773e-05
191.8	4.39650e-05	4.39636e-05	4.39636e-05
191.9	4.38281e-05	4.38266e-05	4.38266e-05
192.0	4.36917e-05	4.36900e-05	4.36900e-05
192.1	4.35557e-05	4.36900e-05	4.36900e-05
192.2	4.34201e-05	4.36900e-05	4.36900e-05
192.3	4.32849e-05	4.32827e-05	4.32827e-05
192.4	4.31501e-05	4.31478e-05	4.31478e-05
192.5	4.30158e-05	4.30133e-05	4.30133e-05
192.6	4.28819e-05	4.30133e-05	4.30133e-05
192.7	4.27484e-05	4.30133e-05	4.30133e-05
192.8	4.26153e-05	4.26123e-05	4.26123e-05
192.9	4.24826e-05	4.24795e-05	4.24795e-05

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x	$A(x)$	P_{v1}	P_{v2}
193.0	4.23504e-05	4.23471e-05	4.23471e-05
193.1	4.22185e-05	4.23471e-05	4.23471e-05
193.2	4.20871e-05	4.23471e-05	4.23471e-05
193.3	4.19561e-05	4.19524e-05	4.19524e-05
193.4	4.18254e-05	4.18216e-05	4.18216e-05
193.5	4.16952e-05	4.16912e-05	4.16912e-05
193.6	4.15654e-05	4.16912e-05	4.16912e-05
193.7	4.14360e-05	4.16912e-05	4.16912e-05
193.8	4.13070e-05	4.13026e-05	4.13026e-05
193.9	4.11784e-05	4.11739e-05	4.11739e-05
194.0	4.10502e-05	4.10455e-05	4.10455e-05
194.1	4.09224e-05	4.10455e-05	4.10455e-05
194.2	4.07950e-05	4.10455e-05	4.10455e-05
194.3	4.06680e-05	4.06629e-05	4.06629e-05
194.4	4.05414e-05	4.05362e-05	4.05362e-05
194.5	4.04152e-05	4.04098e-05	4.04098e-05
194.6	4.02894e-05	4.04098e-05	4.04098e-05
194.7	4.01640e-05	4.04098e-05	4.04098e-05
194.8	4.00389e-05	4.00331e-05	4.00331e-05
194.9	3.99143e-05	3.99084e-05	3.99084e-05
195.0	3.97900e-05	3.97840e-05	3.97840e-05
195.1	3.96661e-05	3.97840e-05	3.97840e-05
195.2	3.95426e-05	3.97840e-05	3.97840e-05
195.3	3.94195e-05	3.94131e-05	3.94131e-05
195.4	3.92968e-05	3.92903e-05	3.92903e-05
195.5	3.91745e-05	3.91678e-05	3.91678e-05
195.6	3.90525e-05	3.91678e-05	3.91678e-05
195.7	3.89309e-05	3.91678e-05	3.91678e-05
195.8	3.88097e-05	3.88027e-05	3.88027e-05
195.9	3.86889e-05	3.86818e-05	3.86818e-05
196.0	3.85685e-05	3.85612e-05	3.85612e-05
196.1	3.84484e-05	3.85612e-05	3.85612e-05
196.2	3.83287e-05	3.85612e-05	3.85612e-05
196.3	3.82094e-05	3.82017e-05	3.82017e-05
196.4	3.80904e-05	3.80827e-05	3.80827e-05
196.5	3.79718e-05	3.79640e-05	3.79640e-05
196.6	3.78536e-05	3.79640e-05	3.79640e-05
196.7	3.77358e-05	3.79640e-05	3.79640e-05
196.8	3.76183e-05	3.76101e-05	3.76101e-05
196.9	3.75012e-05	3.74928e-05	3.74928e-05

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x	$A(x)$	P_{v1}	P_{v2}
197.0	3.73844e-05	3.73760e-05	3.73760e-05
197.1	3.72680e-05	3.73760e-05	3.73760e-05
197.2	3.71520e-05	3.73760e-05	3.73760e-05
197.3	3.70364e-05	3.70276e-05	3.70276e-05
197.4	3.69211e-05	3.69122e-05	3.69122e-05
197.5	3.68061e-05	3.67971e-05	3.67971e-05
197.6	3.66915e-05	3.67971e-05	3.67971e-05
197.7	3.65773e-05	3.67971e-05	3.67971e-05
197.8	3.64634e-05	3.64541e-05	3.64541e-05
197.9	3.63499e-05	3.63405e-05	3.63405e-05
198.0	3.62367e-05	3.62272e-05	3.62272e-05
198.1	3.61239e-05	3.62272e-05	3.62272e-05
198.2	3.60115e-05	3.62272e-05	3.62272e-05
198.3	3.58994e-05	3.58895e-05	3.58895e-05
198.4	3.57876e-05	3.57776e-05	3.57776e-05
198.5	3.56762e-05	3.56661e-05	3.56661e-05
198.6	3.55651e-05	3.56661e-05	3.56661e-05
198.7	3.54544e-05	3.56661e-05	3.56661e-05
198.8	3.53440e-05	3.53337e-05	3.53337e-05
198.9	3.52340e-05	3.52235e-05	3.52235e-05
199.0	3.51243e-05	3.51137e-05	3.51137e-05
199.1	3.50149e-05	3.51137e-05	3.51137e-05
199.2	3.49059e-05	3.51137e-05	3.51137e-05
199.3	3.47973e-05	3.47864e-05	3.47864e-05
199.4	3.46889e-05	3.46780e-05	3.46780e-05
199.5	3.45809e-05	3.45699e-05	3.45699e-05
199.6	3.44733e-05	3.45699e-05	3.45699e-05
199.7	3.43660e-05	3.45699e-05	3.45699e-05
199.8	3.42590e-05	3.42476e-05	3.42476e-05
199.9	3.41523e-05	3.41409e-05	3.41409e-05
200.0	3.40460e-05	3.40345e-05	3.40345e-05

Table B.7.4: Output for Problem 7.1-Po214

x	$A(x)$	P_{v1}	P_{v2}
0.0	-9.30091e-27	0.00000e+00	0.00000e+00
0.1	2.70965e-11	2.89897e-11	2.89897e-11
0.2	8.02230e-12	9.21871e-12	9.21871e-12
0.3	2.37512e-12	9.21871e-12	9.21871e-12

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x	$A(x)$	P_{v1}	P_{v2}
0.4	7.03186e-13	9.32229e-13	9.32229e-13
0.5	2.08188e-13	2.96448e-13	2.96448e-13
0.6	6.16370e-14	2.96448e-13	2.96448e-13
0.7	1.82485e-14	2.96448e-13	2.96448e-13
0.8	5.40273e-15	9.53296e-15	9.53296e-15
0.9	1.59955e-15	3.03147e-15	3.03147e-15
1.0	4.73570e-16	9.64007e-16	9.64007e-16
1.1	1.40207e-16	3.06554e-16	3.06554e-16
1.2	4.15103e-17	3.06554e-16	3.06554e-16
1.3	1.22897e-17	3.09998e-17	3.09998e-17
1.4	3.63854e-18	3.09998e-17	3.09998e-17
1.5	1.07724e-18	3.13481e-18	3.13481e-18
1.6	3.18932e-19	9.96868e-19	9.96868e-19
1.7	9.44244e-20	9.96868e-19	9.96868e-19
1.8	2.79557e-20	1.00807e-19	1.00807e-19
1.9	8.27667e-21	1.00807e-19	1.00807e-19
2.0	2.45042e-21	1.01939e-20	1.01939e-20
2.1	7.25483e-22	3.24167e-21	3.24167e-21
2.2	2.14789e-22	1.03085e-21	1.03085e-21
2.3	6.35914e-23	1.03085e-21	1.03085e-21
2.4	1.88271e-23	1.03085e-21	1.03085e-21
2.5	5.57404e-24	3.31492e-23	3.31492e-23
2.6	1.65027e-24	1.05414e-23	1.05414e-23
2.7	4.88586e-25	3.35217e-24	3.35217e-24
2.8	1.44653e-25	3.35217e-24	3.35217e-24
2.9	4.28265e-26	3.35217e-24	3.35217e-24
3.0	1.26794e-26	1.07797e-25	1.07797e-25
3.1	3.75391e-27	3.42792e-26	3.42792e-26
3.2	1.11140e-27	1.09008e-26	1.09008e-26
3.3	3.29045e-28	1.09008e-26	1.09008e-26
3.4	9.74184e-29	1.09008e-26	1.09008e-26
3.5	2.88421e-29	3.50539e-28	3.50539e-28
3.6	8.53910e-30	1.11471e-28	1.11471e-28
3.7	2.52812e-30	3.54477e-29	3.54477e-29
3.8	7.48486e-31	3.54477e-29	3.54477e-29
3.9	2.21600e-31	3.54477e-29	3.54477e-29
4.0	6.56077e-32	1.13990e-30	1.13990e-30
4.1	1.94241e-32	1.13990e-30	1.13990e-30
4.2	5.75077e-33	1.15271e-31	1.15271e-31
4.3	1.70260e-33	3.66561e-32	3.66561e-32

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x	$A(x)$	P_{v1}	P_{v2}
4.4	5.04078e-34	1.16566e-32	1.16566e-32
4.5	1.49239e-34	3.70679e-33	3.70679e-33
4.6	4.41844e-35	3.70679e-33	3.70679e-33
4.7	1.30814e-35	3.74844e-34	3.74844e-34
4.8	3.87294e-36	3.74844e-34	3.74844e-34
4.9	1.14664e-36	3.79056e-35	3.79056e-35
5.0	3.39478e-37	1.20540e-35	1.20540e-35
5.1	1.00507e-37	1.20540e-35	1.20540e-35
5.2	2.97566e-38	1.21894e-36	1.21894e-36
5.3	8.80986e-39	1.21894e-36	1.21894e-36
5.4	2.60828e-39	1.23264e-37	1.23264e-37
5.5	7.72218e-40	3.91977e-38	3.91977e-38
5.6	2.28626e-40	3.91977e-38	3.91977e-38
5.7	6.76880e-41	3.96381e-39	3.96381e-39
5.8	2.00400e-41	3.96381e-39	3.96381e-39
5.9	5.93312e-42	4.00835e-40	4.00835e-40
6.0	1.75658e-42	1.27465e-40	1.27465e-40
6.1	5.20061e-43	1.27465e-40	1.27465e-40
6.2	1.53971e-43	1.28897e-41	1.28897e-41
6.3	4.55854e-44	1.28897e-41	1.28897e-41
6.4	1.34962e-44	1.30346e-42	1.30346e-42
6.5	3.99574e-45	4.14499e-43	4.14499e-43
6.6	1.18299e-45	4.14499e-43	4.14499e-43
6.7	3.50242e-46	4.19156e-44	4.19156e-44
6.8	1.03694e-46	4.19156e-44	4.19156e-44
6.9	3.07001e-47	4.23866e-45	4.23866e-45
7.0	9.08919e-48	1.34789e-45	1.34789e-45
7.1	2.69098e-48	1.34789e-45	1.34789e-45
7.2	7.96704e-49	1.36303e-46	1.36303e-46
7.3	2.35875e-49	1.36303e-46	1.36303e-46
7.4	6.98342e-50	1.37835e-47	1.37835e-47
7.5	2.06754e-50	4.38314e-48	4.38314e-48
7.6	6.12124e-51	4.38314e-48	4.38314e-48
7.7	1.81228e-51	4.43239e-49	4.43239e-49
7.8	5.36551e-52	4.43239e-49	4.43239e-49
7.9	1.58853e-52	4.48219e-50	4.48219e-50
8.0	4.70308e-53	1.42533e-50	1.42533e-50
8.1	1.39241e-53	4.53255e-51	4.53255e-51
8.2	4.12243e-54	4.53255e-51	4.53255e-51
8.3	1.22050e-54	4.58348e-52	4.58348e-52

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x	$A(x)$	P_{v1}	P_{v2}
8.4	3.61347e-55	1.45754e-52	1.45754e-52
8.5	1.06982e-55	4.63498e-53	4.63498e-53
8.6	3.16735e-56	1.47392e-53	1.47392e-53
8.7	9.37739e-57	1.47392e-53	1.47392e-53
8.8	2.77631e-57	1.49048e-54	1.49048e-54
8.9	8.21965e-58	4.73972e-55	4.73972e-55
9.0	2.43354e-58	1.50723e-55	1.50723e-55
9.1	7.20485e-59	4.79298e-56	4.79298e-56
9.2	2.13310e-59	4.79298e-56	4.79298e-56
9.3	6.31533e-60	4.84683e-57	4.84683e-57
9.4	1.86974e-60	1.54129e-57	1.54129e-57
9.5	5.53564e-61	4.90129e-58	4.90129e-58
9.6	1.63890e-61	4.90129e-58	4.90129e-58
9.7	4.85220e-62	4.90129e-58	4.90129e-58
9.8	1.43656e-62	1.57612e-59	1.57612e-59
9.9	4.25314e-63	5.01205e-60	5.01205e-60
10.0	1.25920e-63	1.59383e-60	1.59383e-60
10.1	3.72805e-64	1.59383e-60	1.59383e-60
10.2	1.10374e-64	1.59383e-60	1.59383e-60
10.3	3.26778e-65	5.12531e-62	5.12531e-62
10.4	9.67472e-66	1.62985e-62	1.62985e-62
10.5	2.86434e-66	5.18290e-63	5.18290e-63
10.6	8.48028e-67	5.18290e-63	5.18290e-63
10.7	2.51070e-67	5.18290e-63	5.18290e-63
10.8	7.43329e-68	1.66668e-64	1.66668e-64
10.9	2.20073e-68	5.30002e-65	5.30002e-65
11.0	6.51557e-69	1.68540e-65	1.68540e-65
11.1	1.92903e-69	1.68540e-65	1.68540e-65
11.2	5.71116e-70	1.68540e-65	1.68540e-65
11.3	1.69087e-70	5.41979e-67	5.41979e-67
11.4	5.00605e-71	1.72349e-67	1.72349e-67
11.5	1.48211e-71	5.48069e-68	5.48069e-68
11.6	4.38800e-72	5.48069e-68	5.48069e-68
11.7	1.29913e-72	5.48069e-68	5.48069e-68
11.8	3.84626e-73	1.76244e-69	1.76244e-69
11.9	1.13874e-73	5.60454e-70	5.60454e-70
12.0	3.37139e-74	1.78224e-70	1.78224e-70
12.1	9.98149e-75	1.78224e-70	1.78224e-70
12.2	2.95516e-75	1.78224e-70	1.78224e-70
12.3	8.74916e-76	5.73119e-72	5.73119e-72

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x	$A(x)$	P_{v1}	P_{v2}
12.4	2.59031e-76	1.82252e-72	1.82252e-72
12.5	7.66899e-77	5.79559e-73	5.79559e-73
12.6	2.27051e-77	5.79559e-73	5.79559e-73
12.7	6.72217e-78	5.79559e-73	5.79559e-73
12.8	1.99019e-78	1.86370e-74	1.86370e-74
12.9	5.89224e-79	5.92656e-75	5.92656e-75
13.0	1.74448e-79	1.88464e-75	1.88464e-75
13.1	5.16478e-80	1.88464e-75	1.88464e-75
13.2	1.52911e-80	1.88464e-75	1.88464e-75
13.3	4.52713e-81	6.06049e-77	6.06049e-77
13.4	1.34032e-81	1.92723e-77	1.92723e-77
13.5	3.96821e-82	6.12858e-78	6.12858e-78
13.6	1.17484e-82	6.12858e-78	6.12858e-78
13.7	3.47829e-83	6.12858e-78	6.12858e-78
13.8	1.02980e-83	1.97078e-79	1.97078e-79
13.9	3.04886e-84	6.26707e-80	6.26707e-80
14.0	9.02658e-85	1.99293e-80	1.99293e-80
14.1	2.67245e-85	1.99293e-80	1.99293e-80
14.2	7.91215e-86	1.99293e-80	1.99293e-80
14.3	2.34250e-86	6.40870e-82	6.40870e-82
14.4	6.93531e-87	2.03796e-82	2.03796e-82
14.5	2.05330e-87	6.48070e-83	6.48070e-83
14.6	6.07907e-88	6.48070e-83	6.48070e-83
14.7	1.79979e-88	6.48070e-83	6.48070e-83
14.8	5.32854e-89	2.08402e-84	2.08402e-84
14.9	1.57759e-89	6.62716e-85	6.62716e-85
15.0	4.67068e-90	2.10743e-85	2.10743e-85
15.1	1.38282e-90	2.10743e-85	2.10743e-85
15.2	4.09403e-91	2.10743e-85	2.10743e-85
15.3	1.21210e-91	6.77692e-87	6.77692e-87
15.4	3.58858e-92	2.15506e-87	2.15506e-87
15.5	1.06245e-92	6.85306e-88	6.85306e-88
15.6	3.14553e-93	6.85306e-88	6.85306e-88
15.7	9.31279e-94	6.85306e-88	6.85306e-88
15.8	2.75718e-94	2.20376e-89	2.20376e-89
15.9	8.16302e-95	7.00793e-90	7.00793e-90
16.0	2.41678e-95	2.22852e-90	2.22852e-90
16.1	7.15521e-96	7.08667e-91	7.08667e-91
16.2	2.11840e-96	2.25356e-91	2.25356e-91
16.3	6.27182e-97	7.16629e-92	7.16629e-92

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x	$A(x)$	P_{v1}	P_{v2}
16.4	1.85686e-97	7.16629e-92	7.16629e-92
16.5	5.49750e-98	7.24681e-93	7.24681e-93
16.6	1.62761e-98	2.30448e-93	2.30448e-93
16.7	4.81877e-99	7.32824e-94	7.32824e-94
16.8	1.42667e-99	2.33037e-94	2.33037e-94
16.9	4.22384e-100	2.33037e-94	2.33037e-94
17.0	1.25053e-100	2.35656e-95	2.35656e-95
17.1	3.70237e-101	7.49384e-96	7.49384e-96
17.2	1.09614e-101	2.38304e-96	2.38304e-96
17.3	3.24527e-102	7.57804e-97	7.57804e-97
17.4	9.60807e-103	7.57804e-97	7.57804e-97
17.5	2.84461e-103	7.66319e-98	7.66319e-98
17.6	8.42185e-104	2.43689e-98	2.43689e-98
17.7	2.49341e-104	7.74929e-99	7.74929e-99
17.8	7.38209e-105	2.46427e-99	2.46427e-99
17.9	2.18557e-105	2.46427e-99	2.46427e-99
18.0	6.47069e-106	2.49196e-100	2.49196e-100
18.1	1.91574e-106	7.92441e-101	7.92441e-101
18.2	5.67181e-107	2.51996e-101	2.51996e-101
18.3	1.67922e-107	8.01345e-102	8.01345e-102
18.4	4.97157e-108	8.01345e-102	8.01345e-102
18.5	1.47190e-108	8.10348e-103	8.10348e-103
18.6	4.35777e-109	2.57690e-103	2.57690e-103
18.7	1.29018e-109	8.19453e-104	8.19453e-104
18.8	3.81976e-110	2.60586e-104	2.60586e-104
18.9	1.13089e-110	2.60586e-104	2.60586e-104
19.0	3.34817e-111	2.63514e-105	2.63514e-105
19.1	9.91272e-112	8.37971e-106	8.37971e-106
19.2	2.93480e-112	8.37971e-106	8.37971e-106
19.3	8.68889e-113	8.47387e-107	8.47387e-107
19.4	2.57247e-113	8.47387e-107	8.47387e-107
19.5	7.61615e-114	8.56908e-108	8.56908e-108
19.6	2.25487e-114	2.72496e-108	2.72496e-108
19.7	6.67586e-115	2.72496e-108	2.72496e-108
19.8	1.97648e-115	2.75558e-109	2.75558e-109
19.9	5.85165e-116	2.75558e-109	2.75558e-109
20.0	1.73246e-116	2.78654e-110	2.78654e-110
20.1	5.12920e-117	8.86118e-111	8.86118e-111
20.2	1.51857e-117	8.86118e-111	8.86118e-111
20.3	4.49595e-118	8.96074e-112	8.96074e-112

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x	$A(x)$	P_{v1}	P_{v2}
20.4	1.33109e-118	8.96074e-112	8.96074e-112
20.5	3.94087e-119	9.06143e-113	9.06143e-113
20.6	1.16675e-119	2.88153e-113	2.88153e-113
20.7	3.45433e-120	2.88153e-113	2.88153e-113
20.8	1.02270e-120	2.91390e-114	2.91390e-114
20.9	3.02786e-121	2.91390e-114	2.91390e-114
21.0	8.96439e-122	2.94664e-115	2.94664e-115
21.1	2.65403e-122	9.37031e-116	9.37031e-116
21.2	7.85764e-123	9.37031e-116	9.37031e-116
21.3	2.32637e-123	9.47559e-117	9.47559e-117
21.4	6.88753e-124	9.47559e-117	9.47559e-117
21.5	2.03915e-124	9.58206e-118	9.58206e-118
21.6	6.03719e-125	3.04709e-118	3.04709e-118
21.7	1.78740e-125	3.04709e-118	3.04709e-118
21.8	5.29184e-126	3.08133e-119	3.08133e-119
21.9	1.56672e-126	3.08133e-119	3.08133e-119
22.0	4.63850e-127	3.11595e-120	3.11595e-120
22.1	1.37329e-127	9.90869e-121	9.90869e-121
22.2	4.06583e-128	9.90869e-121	9.90869e-121
22.3	1.20375e-128	1.00200e-121	1.00200e-121
22.4	3.56386e-129	1.00200e-121	1.00200e-121
22.5	1.05513e-129	1.01326e-122	1.01326e-122
22.6	3.12386e-130	3.22216e-123	3.22216e-123
22.7	9.24863e-131	3.22216e-123	3.22216e-123
22.8	2.73819e-131	3.25837e-124	3.25837e-124
22.9	8.10679e-132	3.25837e-124	3.25837e-124
23.0	2.40013e-132	3.29498e-125	3.29498e-125
23.1	7.10592e-133	1.04780e-125	1.04780e-125
23.2	2.10381e-133	1.04780e-125	1.04780e-125
23.3	6.22862e-134	1.05957e-126	1.05957e-126
23.4	1.84407e-134	1.05957e-126	1.05957e-126
23.5	5.45963e-135	1.07148e-127	1.07148e-127
23.6	1.61640e-135	3.40730e-128	3.40730e-128
23.7	4.78558e-136	3.40730e-128	3.40730e-128
23.8	1.41684e-136	3.44558e-129	3.44558e-129
23.9	4.19475e-137	3.44558e-129	3.44558e-129
24.0	1.24191e-137	3.48429e-130	3.48429e-130
24.1	3.67686e-138	1.10800e-130	1.10800e-130
24.2	1.08859e-138	1.10800e-130	1.10800e-130
24.3	3.22291e-139	1.12045e-131	1.12045e-131

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x	$A(x)$	P_{v1}	P_{v2}
24.4	9.54188e-140	1.12045e-131	1.12045e-131
24.5	2.82501e-140	1.13304e-132	1.13304e-132
24.6	8.36383e-141	3.60307e-133	3.60307e-133
24.7	2.47623e-141	3.60307e-133	3.60307e-133
24.8	7.33123e-142	3.64355e-134	3.64355e-134
24.9	2.17051e-142	3.64355e-134	3.64355e-134
25.0	6.42611e-143	3.68449e-135	3.68449e-135
25.1	1.90254e-143	1.17167e-135	1.17167e-135
25.2	5.63274e-144	1.17167e-135	1.17167e-135
25.3	1.66765e-144	1.18483e-136	1.18483e-136
25.4	4.93732e-145	1.18483e-136	1.18483e-136
25.5	1.46176e-145	1.19814e-137	1.19814e-137
25.6	4.32775e-146	3.81008e-138	3.81008e-138
25.7	1.28129e-146	3.81008e-138	3.81008e-138
25.8	3.79344e-147	3.85289e-139	3.85289e-139
25.9	1.12310e-147	3.85289e-139	3.85289e-139
26.0	3.32510e-148	3.89619e-140	3.89619e-140
26.1	9.84443e-149	1.23898e-140	1.23898e-140
26.2	2.91458e-149	1.23898e-140	1.23898e-140
26.3	8.62903e-150	1.25291e-141	1.25291e-141
26.4	2.55475e-150	1.25291e-141	1.25291e-141
26.5	7.56368e-151	1.26698e-142	1.26698e-142
26.6	2.23934e-151	4.02900e-143	4.02900e-143
26.7	6.62987e-152	4.02900e-143	4.02900e-143
26.8	1.96287e-152	4.07427e-144	4.07427e-144
26.9	5.81134e-153	4.07427e-144	4.07427e-144
27.0	1.72053e-153	4.12005e-145	4.12005e-145
27.1	5.09387e-154	1.31017e-145	1.31017e-145
27.2	1.50811e-154	1.31017e-145	1.31017e-145
27.3	4.46497e-155	1.32489e-146	1.32489e-146
27.4	1.32192e-155	1.32489e-146	1.32489e-146
27.5	3.91372e-156	1.33978e-147	1.33978e-147
27.6	1.15871e-156	4.26049e-148	4.26049e-148
27.7	3.43053e-157	4.26049e-148	4.26049e-148
27.8	1.01566e-157	4.30836e-149	4.30836e-149
27.9	3.00700e-158	4.30836e-149	4.30836e-149
28.0	8.90264e-159	4.35677e-150	4.35677e-150
28.1	2.63575e-159	1.38545e-150	1.38545e-150
28.2	7.80351e-160	1.38545e-150	1.38545e-150
28.3	2.31034e-160	1.40102e-151	1.40102e-151

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x	$A(x)$	P_{v1}	P_{v2}
28.4	6.84008e-161	1.40102e-151	1.40102e-151
28.5	2.02510e-161	1.41676e-152	1.41676e-152
28.6	5.99560e-162	4.50528e-153	4.50528e-153
28.7	1.77508e-162	4.50528e-153	4.50528e-153
28.8	5.25538e-163	4.55590e-154	4.55590e-154
28.9	1.55593e-163	4.55590e-154	4.55590e-154
29.0	4.60655e-164	4.60709e-155	4.60709e-155
29.1	1.36383e-164	1.46505e-155	1.46505e-155
29.2	4.03782e-165	1.46505e-155	1.46505e-155
29.3	1.19545e-165	1.48151e-156	1.48151e-156
29.4	3.53931e-166	1.48151e-156	1.48151e-156
29.5	1.04786e-166	1.49816e-157	1.49816e-157
29.6	3.10234e-167	4.76414e-158	4.76414e-158
29.7	9.18492e-168	4.76414e-158	4.76414e-158
29.8	2.71932e-168	4.81767e-159	4.81767e-159
29.9	8.05094e-169	4.81767e-159	4.81767e-159
30.0	2.38359e-169	4.87180e-160	4.87180e-160
30.1	7.05696e-170	1.54923e-160	1.54923e-160
30.2	2.08931e-170	1.54923e-160	1.54923e-160
30.3	6.18571e-171	1.56664e-161	1.56664e-161
30.4	1.83137e-171	1.56664e-161	1.56664e-161
30.5	5.42201e-172	1.58424e-162	1.58424e-162
30.6	1.60526e-172	5.03787e-163	5.03787e-163
30.7	4.75261e-173	5.03787e-163	5.03787e-163
30.8	1.40708e-173	5.09447e-164	5.09447e-164
30.9	4.16585e-174	5.09447e-164	5.09447e-164
31.0	1.23336e-174	5.15171e-165	5.15171e-165
31.1	3.65153e-175	1.63824e-165	1.63824e-165
31.2	1.08109e-175	1.63824e-165	1.63824e-165
31.3	3.20071e-176	1.65665e-166	1.65665e-166
31.4	9.47615e-177	1.65665e-166	1.65665e-166
31.5	2.80555e-177	1.67526e-167	1.67526e-167
31.6	8.30622e-178	5.32732e-168	5.32732e-168
31.7	2.45917e-178	5.32732e-168	5.32732e-168
31.8	7.28072e-179	5.38718e-169	5.38718e-169
31.9	2.15556e-179	5.38718e-169	5.38718e-169
32.0	6.38184e-180	5.44771e-170	5.44771e-170
32.1	1.88943e-180	1.73237e-170	1.73237e-170
32.2	5.59393e-181	5.50892e-171	5.50892e-171
32.3	1.65616e-181	5.50892e-171	5.50892e-171

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x	$A(x)$	P_{v1}	P_{v2}
32.4	4.90330e-182	5.57082e-172	5.57082e-172
32.5	1.45169e-182	1.77152e-172	1.77152e-172
32.6	4.29794e-183	5.63341e-173	5.63341e-173
32.7	1.27246e-183	1.79142e-173	1.79142e-173
32.8	3.76731e-184	1.79142e-173	1.79142e-173
32.9	1.11537e-184	1.81155e-174	1.81155e-174
33.0	3.30220e-185	5.76071e-175	5.76071e-175
33.1	9.77661e-186	1.83190e-175	1.83190e-175
33.2	2.89450e-186	5.82544e-176	5.82544e-176
33.3	8.56958e-187	5.82544e-176	5.82544e-176
33.4	2.53715e-187	5.89089e-177	5.89089e-177
33.5	7.51158e-188	1.87330e-177	1.87330e-177
33.6	2.22391e-188	5.95708e-178	5.95708e-178
33.7	6.58419e-189	1.89435e-178	1.89435e-178
33.8	1.94934e-189	1.89435e-178	1.89435e-178
33.9	5.77130e-190	1.91563e-179	1.91563e-179
34.0	1.70868e-190	6.09170e-180	6.09170e-180
34.1	5.05877e-191	1.93716e-180	1.93716e-180
34.2	1.49772e-191	6.16015e-181	6.16015e-181
34.3	4.43421e-192	6.16015e-181	6.16015e-181
34.4	1.31281e-192	6.22936e-182	6.22936e-182
34.5	3.88676e-193	1.98093e-182	1.98093e-182
34.6	1.15073e-193	6.29935e-183	6.29935e-183
34.7	3.40690e-194	2.00319e-183	2.00319e-183
34.8	1.00866e-194	2.00319e-183	2.00319e-183
34.9	2.98628e-195	2.02570e-184	2.02570e-184
35.0	8.84130e-196	6.44171e-185	6.44171e-185
35.1	2.61759e-196	2.04846e-185	2.04846e-185
35.2	7.74975e-197	6.51409e-186	6.51409e-186
35.3	2.29442e-197	6.51409e-186	6.51409e-186
35.4	6.79296e-198	6.58728e-187	6.58728e-187
35.5	2.01115e-198	2.09475e-187	2.09475e-187
35.6	5.95430e-199	6.66129e-188	6.66129e-188
35.7	1.76285e-199	2.11829e-188	2.11829e-188
35.8	5.21917e-200	2.11829e-188	2.11829e-188
35.9	1.54521e-200	2.14209e-189	2.14209e-189
36.0	4.57481e-201	6.81182e-190	6.81182e-190
36.1	1.35444e-201	2.16616e-190	2.16616e-190
36.2	4.01000e-202	6.88836e-191	6.88836e-191
36.3	1.18722e-202	6.88836e-191	6.88836e-191

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x	$A(x)$	P_{v1}	P_{v2}
36.4	3.51492e-203	6.96576e-192	6.96576e-192
36.5	1.04064e-203	2.21511e-192	2.21511e-192
36.6	3.08097e-204	7.04402e-193	7.04402e-193
36.7	9.12164e-205	2.24000e-193	2.24000e-193
36.8	2.70059e-205	2.24000e-193	2.24000e-193
36.9	7.99548e-206	2.26516e-194	2.26516e-194
37.0	2.36717e-206	7.20321e-195	7.20321e-195
37.1	7.00835e-207	2.29061e-195	2.29061e-195
37.2	2.07492e-207	7.28414e-196	7.28414e-196
37.3	6.14309e-208	7.28414e-196	7.28414e-196
37.4	1.81875e-208	7.36598e-197	7.36598e-197
37.5	5.38466e-209	2.34238e-197	2.34238e-197
37.6	1.59420e-209	7.44875e-198	7.44875e-198
37.7	4.71987e-210	2.36870e-198	2.36870e-198
37.8	1.39738e-210	2.36870e-198	2.36870e-198
37.9	4.13715e-211	2.39531e-199	2.39531e-199
38.0	1.22486e-211	7.61707e-200	7.61707e-200
38.1	3.62637e-212	2.42222e-200	2.42222e-200
38.2	1.07364e-212	7.70266e-201	7.70266e-201
38.3	3.17866e-213	7.70266e-201	7.70266e-201
38.4	9.41087e-214	7.70266e-201	7.70266e-201
38.5	2.78622e-214	2.47696e-202	2.47696e-202
38.6	8.24899e-215	7.87672e-203	7.87672e-203
38.7	2.44223e-215	2.50479e-203	2.50479e-203
38.8	7.23057e-216	2.50479e-203	2.50479e-203
38.9	2.14071e-216	2.50479e-203	2.50479e-203
39.0	6.33787e-217	8.05472e-205	8.05472e-205
39.1	1.87642e-217	2.56140e-205	2.56140e-205
39.2	5.55540e-218	8.14522e-206	8.14522e-206
39.3	1.64475e-218	8.14522e-206	8.14522e-206
39.4	4.86952e-219	8.14522e-206	8.14522e-206
39.5	1.44169e-219	2.61928e-207	2.61928e-207
39.6	4.26833e-220	8.32929e-208	8.32929e-208
39.7	1.26370e-220	2.64871e-208	2.64871e-208
39.8	3.74136e-221	2.64871e-208	2.64871e-208
39.9	1.10768e-221	2.64871e-208	2.64871e-208
40.0	3.27945e-222	8.51752e-210	8.51752e-210
40.1	9.70926e-223	2.70856e-210	2.70856e-210
40.2	2.87456e-223	8.61322e-211	8.61322e-211
40.3	8.51055e-224	8.61322e-211	8.61322e-211

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x	$A(x)$	P_{v1}	P_{v2}
40.4	2.51967e-224	8.61322e-211	8.61322e-211
40.5	7.45983e-225	2.76977e-212	2.76977e-212
40.6	2.20859e-225	8.80786e-213	8.80786e-213
40.7	6.53883e-226	2.80089e-213	2.80089e-213
40.8	1.93591e-226	2.80089e-213	2.80089e-213
40.9	5.73154e-227	2.80089e-213	2.80089e-213
41.0	1.69690e-227	9.00690e-215	9.00690e-215
41.1	5.02392e-228	2.86419e-215	2.86419e-215
41.2	1.48740e-228	9.10810e-216	9.10810e-216
41.3	4.40367e-229	9.10810e-216	9.10810e-216
41.4	1.30377e-229	9.10810e-216	9.10810e-216
41.5	3.85999e-230	2.92891e-217	2.92891e-217
41.6	1.14280e-230	9.31393e-218	9.31393e-218
41.7	3.38343e-231	2.96182e-218	2.96182e-218
41.8	1.00171e-231	2.96182e-218	2.96182e-218
41.9	2.96571e-232	2.96182e-218	2.96182e-218
42.0	8.78040e-233	9.52440e-220	9.52440e-220
42.1	2.59956e-233	3.02875e-220	3.02875e-220
42.2	7.69636e-234	9.63142e-221	9.63142e-221
42.3	2.27862e-234	9.63142e-221	9.63142e-221
42.4	6.74616e-235	9.63142e-221	9.63142e-221
42.5	1.99730e-235	3.09720e-222	3.09720e-222
42.6	5.91328e-236	9.84907e-223	9.84907e-223
42.7	1.75071e-236	3.13200e-223	3.13200e-223
42.8	5.18322e-237	3.13200e-223	3.13200e-223
42.9	1.53456e-237	3.13200e-223	3.13200e-223
43.0	4.54329e-238	1.00716e-224	1.00716e-224
43.1	1.34511e-238	3.20277e-225	3.20277e-225
43.2	3.98238e-239	1.01848e-225	1.01848e-225
43.3	1.17904e-239	1.01848e-225	1.01848e-225
43.4	3.49071e-240	1.01848e-225	1.01848e-225
43.5	1.03347e-240	3.27515e-227	3.27515e-227
43.6	3.05974e-241	1.04150e-227	1.04150e-227
43.7	9.05880e-242	3.31195e-228	3.31195e-228
43.8	2.68199e-242	3.31195e-228	3.31195e-228
43.9	7.94039e-243	3.31195e-228	3.31195e-228
44.0	2.35087e-243	1.06503e-229	1.06503e-229
44.1	6.96007e-244	3.38679e-230	3.38679e-230
44.2	2.06063e-244	1.07700e-230	1.07700e-230
44.3	6.10077e-245	1.07700e-230	1.07700e-230

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x	$A(x)$	P_{v1}	P_{v2}
44.4	1.80622e-245	1.07700e-230	1.07700e-230
44.5	5.34757e-246	3.46333e-232	3.46333e-232
44.6	1.58322e-246	1.10134e-232	1.10134e-232
44.7	4.68735e-247	3.50224e-233	3.50224e-233
44.8	1.38776e-247	3.50224e-233	3.50224e-233
44.9	4.10865e-248	3.50224e-233	3.50224e-233
45.0	1.21642e-248	1.12622e-234	1.12622e-234
45.1	3.60139e-249	3.58139e-235	3.58139e-235
45.2	1.06624e-249	1.13888e-235	1.13888e-235
45.3	3.15676e-250	1.13888e-235	1.13888e-235
45.4	9.34603e-251	1.13888e-235	1.13888e-235
45.5	2.76702e-251	3.66232e-237	3.66232e-237
45.6	8.19216e-252	1.16461e-237	1.16461e-237
45.7	2.42541e-252	3.70347e-238	3.70347e-238
45.8	7.18075e-253	3.70347e-238	3.70347e-238
45.9	2.12596e-253	3.70347e-238	3.70347e-238
46.0	6.29421e-254	1.19093e-239	1.19093e-239
46.1	1.86349e-254	3.78716e-240	3.78716e-240
46.2	5.51712e-255	1.20431e-240	1.20431e-240
46.3	1.63342e-255	1.20431e-240	1.20431e-240
46.4	4.83598e-256	1.20431e-240	1.20431e-240
46.5	1.43176e-256	3.87274e-242	3.87274e-242
46.6	4.23892e-257	1.23153e-242	1.23153e-242
46.7	1.25499e-257	3.91625e-243	3.91625e-243
46.8	3.71558e-258	3.91625e-243	3.91625e-243
46.9	1.10005e-258	3.91625e-243	3.91625e-243
47.0	3.25685e-259	1.25936e-244	1.25936e-244
47.1	9.64237e-260	4.00475e-245	4.00475e-245
47.2	2.85476e-260	1.27351e-245	1.27351e-245
47.3	8.45192e-261	1.27351e-245	1.27351e-245
47.4	2.50231e-261	1.27351e-245	1.27351e-245
47.5	7.40844e-262	4.09525e-247	4.09525e-247
47.6	2.19337e-262	1.30229e-247	1.30229e-247
47.7	6.49379e-263	4.14127e-248	4.14127e-248
47.8	1.92258e-263	4.14127e-248	4.14127e-248
47.9	5.69206e-264	4.14127e-248	4.14127e-248
48.0	1.68521e-264	1.33172e-249	1.33172e-249
48.1	4.98931e-265	4.23485e-250	4.23485e-250
48.2	1.47716e-265	1.34668e-250	1.34668e-250
48.3	4.37333e-266	1.34668e-250	1.34668e-250

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x	$A(x)$	P_{v1}	P_{v2}
48.4	1.29479e-266	1.34668e-250	1.34668e-250
48.5	3.83339e-267	4.33055e-252	4.33055e-252
48.6	1.13493e-267	1.37711e-252	1.37711e-252
48.7	3.36012e-268	4.37921e-253	4.37921e-253
48.8	9.94811e-269	4.37921e-253	4.37921e-253
48.9	2.94528e-269	4.37921e-253	4.37921e-253
49.0	8.71991e-270	1.40823e-254	1.40823e-254
49.1	2.58165e-270	4.47817e-255	4.47817e-255
49.2	7.64334e-271	1.42406e-255	1.42406e-255
49.3	2.26292e-271	1.42406e-255	1.42406e-255
49.4	6.69969e-272	1.42406e-255	1.42406e-255
49.5	1.98354e-272	4.57937e-257	4.57937e-257
49.6	5.87254e-273	1.45624e-257	1.45624e-257
49.7	1.73865e-273	4.63082e-258	4.63082e-258
49.8	5.14751e-274	4.63082e-258	4.63082e-258
49.9	1.52399e-274	4.63082e-258	4.63082e-258
50.0	4.51200e-275	1.48914e-259	1.48914e-259
50.1	1.33584e-275	4.73547e-260	4.73547e-260
50.2	3.95494e-276	1.50588e-260	1.50588e-260
50.3	1.17092e-276	1.50588e-260	1.50588e-260
50.4	3.46666e-277	1.50588e-260	1.50588e-260
50.5	1.02635e-277	4.84248e-262	4.84248e-262
50.6	3.03866e-278	1.53991e-262	1.53991e-262
50.7	8.99639e-279	4.89689e-263	4.89689e-263
50.8	2.66351e-279	4.89689e-263	4.89689e-263
50.9	7.88569e-280	4.89689e-263	4.89689e-263
51.0	2.33467e-280	1.57470e-264	1.57470e-264
51.1	6.91212e-281	5.00755e-265	5.00755e-265
51.2	2.04643e-281	1.59240e-265	1.59240e-265
51.3	6.05874e-282	1.59240e-265	1.59240e-265
51.4	1.79378e-282	1.59240e-265	1.59240e-265
51.5	5.31073e-283	5.12071e-267	5.12071e-267
51.6	1.57232e-283	1.62838e-267	1.62838e-267
51.7	4.65506e-284	5.17825e-268	5.17825e-268
51.8	1.37820e-284	5.17825e-268	5.17825e-268
51.9	4.08034e-285	5.17825e-268	5.17825e-268
52.0	1.20804e-285	1.66518e-269	1.66518e-269
52.1	3.57658e-286	5.29527e-270	5.29527e-270
52.2	1.05890e-286	1.68389e-270	1.68389e-270
52.3	3.13501e-287	1.68389e-270	1.68389e-270

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x	$A(x)$	P_{v1}	P_{v2}
52.4	9.28165e-288	1.68389e-270	1.68389e-270
52.5	2.74796e-288	5.41493e-272	5.41493e-272
52.6	8.13573e-289	1.72194e-272	1.72194e-272
52.7	2.40870e-289	5.47577e-273	5.47577e-273
52.8	7.13128e-290	5.47577e-273	5.47577e-273
52.9	2.11132e-290	5.47577e-273	5.47577e-273
53.0	6.25085e-291	1.76086e-274	1.76086e-274
53.1	1.85065e-291	5.59951e-275	5.59951e-275
53.2	5.47912e-292	1.78064e-275	1.78064e-275
53.3	1.62217e-292	1.78064e-275	1.78064e-275
53.4	4.80266e-293	1.78064e-275	1.78064e-275
53.5	1.42190e-293	5.72605e-277	5.72605e-277
53.6	4.20972e-294	1.82088e-277	1.82088e-277
53.7	1.24635e-294	5.79039e-278	5.79039e-278
53.8	3.68998e-295	5.79039e-278	5.79039e-278
53.9	1.09247e-295	5.79039e-278	5.79039e-278
54.0	3.23442e-296	1.86203e-279	1.86203e-279
54.1	9.57594e-297	5.92124e-280	5.92124e-280
54.2	2.83509e-297	1.88295e-280	1.88295e-280
54.3	8.39369e-298	1.88295e-280	1.88295e-280
54.4	2.48507e-298	1.88295e-280	1.88295e-280
54.5	7.35739e-299	6.05505e-282	6.05505e-282
54.6	2.17827e-299	1.92550e-282	1.92550e-282
54.7	6.44908e-300	6.12308e-283	6.12308e-283
54.8	1.90935e-300	6.12308e-283	6.12308e-283
54.9	5.65369e-301	6.12308e-283	6.12308e-283
55.0	1.67287e-301	1.96901e-284	1.96901e-284
55.1	4.95666e-302	6.26145e-285	6.26145e-285
55.2	1.47151e-302	1.99114e-285	1.99114e-285
55.3	4.38871e-303	1.99114e-285	1.99114e-285
55.4	1.29080e-303	1.99114e-285	1.99114e-285
55.5	2.58160e-304	6.40295e-287	6.40295e-287
55.6	0.00000e+00	2.03613e-287	2.03613e-287
55.7	0.00000e+00	6.47489e-288	6.47489e-288
55.8	0.00000e+00	6.47489e-288	6.47489e-288
55.9	0.00000e+00	6.47489e-288	6.47489e-288
56.0	0.00000e+00	2.08215e-289	2.08215e-289
56.1	0.00000e+00	6.62121e-290	6.62121e-290
56.2	0.00000e+00	2.10554e-290	2.10554e-290
56.3	0.00000e+00	2.10554e-290	2.10554e-290

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x	$A(x)$	P_{v1}	P_{v2}
56.4	0.00000e+00	2.10554e-290	2.10554e-290
56.5	0.00000e+00	6.77083e-292	6.77083e-292
56.6	0.00000e+00	2.15312e-292	2.15312e-292
56.7	0.00000e+00	6.84691e-293	6.84691e-293
56.8	0.00000e+00	6.84691e-293	6.84691e-293
56.9	0.00000e+00	6.84691e-293	6.84691e-293
57.0	0.00000e+00	2.20178e-294	2.20178e-294
57.1	0.00000e+00	7.00164e-295	7.00164e-295
57.2	0.00000e+00	2.22652e-295	2.22652e-295
57.3	0.00000e+00	2.22652e-295	2.22652e-295
57.4	0.00000e+00	2.22652e-295	2.22652e-295
57.5	0.00000e+00	7.15986e-297	7.15986e-297
57.6	0.00000e+00	2.27683e-297	2.27683e-297
57.7	0.00000e+00	7.24031e-298	7.24031e-298
57.8	0.00000e+00	7.24031e-298	7.24031e-298
57.9	0.00000e+00	7.24031e-298	7.24031e-298
58.0	0.00000e+00	2.32828e-299	2.32828e-299
58.1	0.00000e+00	7.40393e-300	7.40393e-300
58.2	0.00000e+00	2.35444e-300	2.35444e-300
58.3	0.00000e+00	2.35444e-300	2.35444e-300
58.4	0.00000e+00	2.35444e-300	2.35444e-300
58.5	0.00000e+00	7.00000e-302	7.00000e-302
58.6	0.00000e+00	2.00000e-302	2.00000e-302
58.7	0.00000e+00	7.00000e-303	7.00000e-303
58.8	0.00000e+00	7.00000e-303	7.00000e-303
58.9	0.00000e+00	7.00000e-303	7.00000e-303
59.0	0.00000e+00	2.00000e-304	2.00000e-304
59.1	0.00000e+00	7.00000e-305	7.00000e-305
59.2	0.00000e+00	2.00000e-305	2.00000e-305
59.3	0.00000e+00	2.00000e-305	2.00000e-305
59.4	0.00000e+00	2.00000e-305	2.00000e-305
59.5	0.00000e+00	8.00000e-307	8.00000e-307
59.6	0.00000e+00	2.00000e-307	2.00000e-307
59.7	0.00000e+00	1.00000e-307	1.00000e-307
59.8	0.00000e+00	1.00000e-307	1.00000e-307
59.9	0.00000e+00	1.00000e-307	1.00000e-307
60.0	0.00000e+00	2.00000e-308	2.00000e-308
60.1	0.00000e+00	2.00000e-308	2.00000e-308
60.2	0.00000e+00	0.00000e+00	0.00000e+00
60.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
60.4	0.00000e+00	0.00000e+00	0.00000e+00
60.5	0.00000e+00	0.00000e+00	0.00000e+00
60.6	0.00000e+00	0.00000e+00	0.00000e+00
60.7	0.00000e+00	0.00000e+00	0.00000e+00
60.8	0.00000e+00	0.00000e+00	0.00000e+00
60.9	0.00000e+00	0.00000e+00	0.00000e+00
61.0	0.00000e+00	0.00000e+00	0.00000e+00
61.1	0.00000e+00	0.00000e+00	0.00000e+00
61.2	0.00000e+00	0.00000e+00	0.00000e+00
61.3	0.00000e+00	0.00000e+00	0.00000e+00
61.4	0.00000e+00	0.00000e+00	0.00000e+00
61.5	0.00000e+00	0.00000e+00	0.00000e+00
61.6	0.00000e+00	0.00000e+00	0.00000e+00
61.7	0.00000e+00	0.00000e+00	0.00000e+00
61.8	0.00000e+00	0.00000e+00	0.00000e+00
61.9	0.00000e+00	0.00000e+00	0.00000e+00
62.0	0.00000e+00	0.00000e+00	0.00000e+00
62.1	0.00000e+00	0.00000e+00	0.00000e+00
62.2	0.00000e+00	0.00000e+00	0.00000e+00
62.3	0.00000e+00	0.00000e+00	0.00000e+00
62.4	0.00000e+00	0.00000e+00	0.00000e+00
62.5	0.00000e+00	0.00000e+00	0.00000e+00
62.6	0.00000e+00	0.00000e+00	0.00000e+00
62.7	0.00000e+00	0.00000e+00	0.00000e+00
62.8	0.00000e+00	0.00000e+00	0.00000e+00
62.9	0.00000e+00	0.00000e+00	0.00000e+00
63.0	0.00000e+00	0.00000e+00	0.00000e+00
63.1	0.00000e+00	0.00000e+00	0.00000e+00
63.2	0.00000e+00	0.00000e+00	0.00000e+00
63.3	0.00000e+00	0.00000e+00	0.00000e+00
63.4	0.00000e+00	0.00000e+00	0.00000e+00
63.5	0.00000e+00	0.00000e+00	0.00000e+00
63.6	0.00000e+00	0.00000e+00	0.00000e+00
63.7	0.00000e+00	0.00000e+00	0.00000e+00
63.8	0.00000e+00	0.00000e+00	0.00000e+00
63.9	0.00000e+00	0.00000e+00	0.00000e+00
64.0	0.00000e+00	0.00000e+00	0.00000e+00
64.1	0.00000e+00	0.00000e+00	0.00000e+00
64.2	0.00000e+00	0.00000e+00	0.00000e+00
64.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
64.4	0.00000e+00	0.00000e+00	0.00000e+00
64.5	0.00000e+00	0.00000e+00	0.00000e+00
64.6	0.00000e+00	0.00000e+00	0.00000e+00
64.7	0.00000e+00	0.00000e+00	0.00000e+00
64.8	0.00000e+00	0.00000e+00	0.00000e+00
64.9	0.00000e+00	0.00000e+00	0.00000e+00
65.0	0.00000e+00	0.00000e+00	0.00000e+00
65.1	0.00000e+00	0.00000e+00	0.00000e+00
65.2	0.00000e+00	0.00000e+00	0.00000e+00
65.3	0.00000e+00	0.00000e+00	0.00000e+00
65.4	0.00000e+00	0.00000e+00	0.00000e+00
65.5	0.00000e+00	0.00000e+00	0.00000e+00
65.6	0.00000e+00	0.00000e+00	0.00000e+00
65.7	0.00000e+00	0.00000e+00	0.00000e+00
65.8	0.00000e+00	0.00000e+00	0.00000e+00
65.9	0.00000e+00	0.00000e+00	0.00000e+00
66.0	0.00000e+00	0.00000e+00	0.00000e+00
66.1	0.00000e+00	0.00000e+00	0.00000e+00
66.2	0.00000e+00	0.00000e+00	0.00000e+00
66.3	0.00000e+00	0.00000e+00	0.00000e+00
66.4	0.00000e+00	0.00000e+00	0.00000e+00
66.5	0.00000e+00	0.00000e+00	0.00000e+00
66.6	0.00000e+00	0.00000e+00	0.00000e+00
66.7	0.00000e+00	0.00000e+00	0.00000e+00
66.8	0.00000e+00	0.00000e+00	0.00000e+00
66.9	0.00000e+00	0.00000e+00	0.00000e+00
67.0	0.00000e+00	0.00000e+00	0.00000e+00
67.1	0.00000e+00	0.00000e+00	0.00000e+00
67.2	0.00000e+00	0.00000e+00	0.00000e+00
67.3	0.00000e+00	0.00000e+00	0.00000e+00
67.4	0.00000e+00	0.00000e+00	0.00000e+00
67.5	0.00000e+00	0.00000e+00	0.00000e+00
67.6	0.00000e+00	0.00000e+00	0.00000e+00
67.7	0.00000e+00	0.00000e+00	0.00000e+00
67.8	0.00000e+00	0.00000e+00	0.00000e+00
67.9	0.00000e+00	0.00000e+00	0.00000e+00
68.0	0.00000e+00	0.00000e+00	0.00000e+00
68.1	0.00000e+00	0.00000e+00	0.00000e+00
68.2	0.00000e+00	0.00000e+00	0.00000e+00
68.3	0.00000e+00	0.00000e+00	0.00000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
68.4	0.00000e+00	0.00000e+00	0.00000e+00
68.5	0.00000e+00	0.00000e+00	0.00000e+00
68.6	0.00000e+00	0.00000e+00	0.00000e+00
68.7	0.00000e+00	0.00000e+00	0.00000e+00
68.8	0.00000e+00	0.00000e+00	0.00000e+00
68.9	0.00000e+00	0.00000e+00	0.00000e+00
69.0	0.00000e+00	0.00000e+00	0.00000e+00
69.1	0.00000e+00	0.00000e+00	0.00000e+00
69.2	0.00000e+00	0.00000e+00	0.00000e+00
69.3	0.00000e+00	0.00000e+00	0.00000e+00
69.4	0.00000e+00	0.00000e+00	0.00000e+00
69.5	0.00000e+00	0.00000e+00	0.00000e+00
69.6	0.00000e+00	0.00000e+00	0.00000e+00
69.7	0.00000e+00	0.00000e+00	0.00000e+00
69.8	0.00000e+00	0.00000e+00	0.00000e+00
69.9	0.00000e+00	0.00000e+00	0.00000e+00
70.0	0.00000e+00	0.00000e+00	0.00000e+00
70.1	0.00000e+00	0.00000e+00	0.00000e+00
70.2	0.00000e+00	0.00000e+00	0.00000e+00
70.3	0.00000e+00	0.00000e+00	0.00000e+00
70.4	0.00000e+00	0.00000e+00	0.00000e+00
70.5	0.00000e+00	0.00000e+00	0.00000e+00
70.6	0.00000e+00	0.00000e+00	0.00000e+00
70.7	0.00000e+00	0.00000e+00	0.00000e+00
70.8	0.00000e+00	0.00000e+00	0.00000e+00
70.9	0.00000e+00	0.00000e+00	0.00000e+00
71.0	0.00000e+00	0.00000e+00	0.00000e+00
71.1	0.00000e+00	0.00000e+00	0.00000e+00
71.2	0.00000e+00	0.00000e+00	0.00000e+00
71.3	0.00000e+00	0.00000e+00	0.00000e+00
71.4	0.00000e+00	0.00000e+00	0.00000e+00
71.5	0.00000e+00	0.00000e+00	0.00000e+00
71.6	0.00000e+00	0.00000e+00	0.00000e+00
71.7	0.00000e+00	0.00000e+00	0.00000e+00
71.8	0.00000e+00	0.00000e+00	0.00000e+00
71.9	0.00000e+00	0.00000e+00	0.00000e+00
72.0	0.00000e+00	0.00000e+00	0.00000e+00
72.1	0.00000e+00	0.00000e+00	0.00000e+00
72.2	0.00000e+00	0.00000e+00	0.00000e+00
72.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
72.4	0.00000e+00	0.00000e+00	0.00000e+00
72.5	0.00000e+00	0.00000e+00	0.00000e+00
72.6	0.00000e+00	0.00000e+00	0.00000e+00
72.7	0.00000e+00	0.00000e+00	0.00000e+00
72.8	0.00000e+00	0.00000e+00	0.00000e+00
72.9	0.00000e+00	0.00000e+00	0.00000e+00
73.0	0.00000e+00	0.00000e+00	0.00000e+00
73.1	0.00000e+00	0.00000e+00	0.00000e+00
73.2	0.00000e+00	0.00000e+00	0.00000e+00
73.3	0.00000e+00	0.00000e+00	0.00000e+00
73.4	0.00000e+00	0.00000e+00	0.00000e+00
73.5	0.00000e+00	0.00000e+00	0.00000e+00
73.6	0.00000e+00	0.00000e+00	0.00000e+00
73.7	0.00000e+00	0.00000e+00	0.00000e+00
73.8	0.00000e+00	0.00000e+00	0.00000e+00
73.9	0.00000e+00	0.00000e+00	0.00000e+00
74.0	0.00000e+00	0.00000e+00	0.00000e+00
74.1	0.00000e+00	0.00000e+00	0.00000e+00
74.2	0.00000e+00	0.00000e+00	0.00000e+00
74.3	0.00000e+00	0.00000e+00	0.00000e+00
74.4	0.00000e+00	0.00000e+00	0.00000e+00
74.5	0.00000e+00	0.00000e+00	0.00000e+00
74.6	0.00000e+00	0.00000e+00	0.00000e+00
74.7	0.00000e+00	0.00000e+00	0.00000e+00
74.8	0.00000e+00	0.00000e+00	0.00000e+00
74.9	0.00000e+00	0.00000e+00	0.00000e+00
75.0	0.00000e+00	0.00000e+00	0.00000e+00
75.1	0.00000e+00	0.00000e+00	0.00000e+00
75.2	0.00000e+00	0.00000e+00	0.00000e+00
75.3	0.00000e+00	0.00000e+00	0.00000e+00
75.4	0.00000e+00	0.00000e+00	0.00000e+00
75.5	0.00000e+00	0.00000e+00	0.00000e+00
75.6	0.00000e+00	0.00000e+00	0.00000e+00
75.7	0.00000e+00	0.00000e+00	0.00000e+00
75.8	0.00000e+00	0.00000e+00	0.00000e+00
75.9	0.00000e+00	0.00000e+00	0.00000e+00
76.0	0.00000e+00	0.00000e+00	0.00000e+00
76.1	0.00000e+00	0.00000e+00	0.00000e+00
76.2	0.00000e+00	0.00000e+00	0.00000e+00
76.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
76.4	0.00000e+00	0.00000e+00	0.00000e+00
76.5	0.00000e+00	0.00000e+00	0.00000e+00
76.6	0.00000e+00	0.00000e+00	0.00000e+00
76.7	0.00000e+00	0.00000e+00	0.00000e+00
76.8	0.00000e+00	0.00000e+00	0.00000e+00
76.9	0.00000e+00	0.00000e+00	0.00000e+00
77.0	0.00000e+00	0.00000e+00	0.00000e+00
77.1	0.00000e+00	0.00000e+00	0.00000e+00
77.2	0.00000e+00	0.00000e+00	0.00000e+00
77.3	0.00000e+00	0.00000e+00	0.00000e+00
77.4	0.00000e+00	0.00000e+00	0.00000e+00
77.5	0.00000e+00	0.00000e+00	0.00000e+00
77.6	0.00000e+00	0.00000e+00	0.00000e+00
77.7	0.00000e+00	0.00000e+00	0.00000e+00
77.8	0.00000e+00	0.00000e+00	0.00000e+00
77.9	0.00000e+00	0.00000e+00	0.00000e+00
78.0	0.00000e+00	0.00000e+00	0.00000e+00
78.1	0.00000e+00	0.00000e+00	0.00000e+00
78.2	0.00000e+00	0.00000e+00	0.00000e+00
78.3	0.00000e+00	0.00000e+00	0.00000e+00
78.4	0.00000e+00	0.00000e+00	0.00000e+00
78.5	0.00000e+00	0.00000e+00	0.00000e+00
78.6	0.00000e+00	0.00000e+00	0.00000e+00
78.7	0.00000e+00	0.00000e+00	0.00000e+00
78.8	0.00000e+00	0.00000e+00	0.00000e+00
78.9	0.00000e+00	0.00000e+00	0.00000e+00
79.0	0.00000e+00	0.00000e+00	0.00000e+00
79.1	0.00000e+00	0.00000e+00	0.00000e+00
79.2	0.00000e+00	0.00000e+00	0.00000e+00
79.3	0.00000e+00	0.00000e+00	0.00000e+00
79.4	0.00000e+00	0.00000e+00	0.00000e+00
79.5	0.00000e+00	0.00000e+00	0.00000e+00
79.6	0.00000e+00	0.00000e+00	0.00000e+00
79.7	0.00000e+00	0.00000e+00	0.00000e+00
79.8	0.00000e+00	0.00000e+00	0.00000e+00
79.9	0.00000e+00	0.00000e+00	0.00000e+00
80.0	0.00000e+00	0.00000e+00	0.00000e+00
80.1	0.00000e+00	0.00000e+00	0.00000e+00
80.2	0.00000e+00	0.00000e+00	0.00000e+00
80.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
80.4	0.00000e+00	0.00000e+00	0.00000e+00
80.5	0.00000e+00	0.00000e+00	0.00000e+00
80.6	0.00000e+00	0.00000e+00	0.00000e+00
80.7	0.00000e+00	0.00000e+00	0.00000e+00
80.8	0.00000e+00	0.00000e+00	0.00000e+00
80.9	0.00000e+00	0.00000e+00	0.00000e+00
81.0	0.00000e+00	0.00000e+00	0.00000e+00
81.1	0.00000e+00	0.00000e+00	0.00000e+00
81.2	0.00000e+00	0.00000e+00	0.00000e+00
81.3	0.00000e+00	0.00000e+00	0.00000e+00
81.4	0.00000e+00	0.00000e+00	0.00000e+00
81.5	0.00000e+00	0.00000e+00	0.00000e+00
81.6	0.00000e+00	0.00000e+00	0.00000e+00
81.7	0.00000e+00	0.00000e+00	0.00000e+00
81.8	0.00000e+00	0.00000e+00	0.00000e+00
81.9	0.00000e+00	0.00000e+00	0.00000e+00
82.0	0.00000e+00	0.00000e+00	0.00000e+00
82.1	0.00000e+00	0.00000e+00	0.00000e+00
82.2	0.00000e+00	0.00000e+00	0.00000e+00
82.3	0.00000e+00	0.00000e+00	0.00000e+00
82.4	0.00000e+00	0.00000e+00	0.00000e+00
82.5	0.00000e+00	0.00000e+00	0.00000e+00
82.6	0.00000e+00	0.00000e+00	0.00000e+00
82.7	0.00000e+00	0.00000e+00	0.00000e+00
82.8	0.00000e+00	0.00000e+00	0.00000e+00
82.9	0.00000e+00	0.00000e+00	0.00000e+00
83.0	0.00000e+00	0.00000e+00	0.00000e+00
83.1	0.00000e+00	0.00000e+00	0.00000e+00
83.2	0.00000e+00	0.00000e+00	0.00000e+00
83.3	0.00000e+00	0.00000e+00	0.00000e+00
83.4	0.00000e+00	0.00000e+00	0.00000e+00
83.5	0.00000e+00	0.00000e+00	0.00000e+00
83.6	0.00000e+00	0.00000e+00	0.00000e+00
83.7	0.00000e+00	0.00000e+00	0.00000e+00
83.8	0.00000e+00	0.00000e+00	0.00000e+00
83.9	0.00000e+00	0.00000e+00	0.00000e+00
84.0	0.00000e+00	0.00000e+00	0.00000e+00
84.1	0.00000e+00	0.00000e+00	0.00000e+00
84.2	0.00000e+00	0.00000e+00	0.00000e+00
84.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
84.4	0.00000e+00	0.00000e+00	0.00000e+00
84.5	0.00000e+00	0.00000e+00	0.00000e+00
84.6	0.00000e+00	0.00000e+00	0.00000e+00
84.7	0.00000e+00	0.00000e+00	0.00000e+00
84.8	0.00000e+00	0.00000e+00	0.00000e+00
84.9	0.00000e+00	0.00000e+00	0.00000e+00
85.0	0.00000e+00	0.00000e+00	0.00000e+00
85.1	0.00000e+00	0.00000e+00	0.00000e+00
85.2	0.00000e+00	0.00000e+00	0.00000e+00
85.3	0.00000e+00	0.00000e+00	0.00000e+00
85.4	0.00000e+00	0.00000e+00	0.00000e+00
85.5	0.00000e+00	0.00000e+00	0.00000e+00
85.6	0.00000e+00	0.00000e+00	0.00000e+00
85.7	0.00000e+00	0.00000e+00	0.00000e+00
85.8	0.00000e+00	0.00000e+00	0.00000e+00
85.9	0.00000e+00	0.00000e+00	0.00000e+00
86.0	0.00000e+00	0.00000e+00	0.00000e+00
86.1	0.00000e+00	0.00000e+00	0.00000e+00
86.2	0.00000e+00	0.00000e+00	0.00000e+00
86.3	0.00000e+00	0.00000e+00	0.00000e+00
86.4	0.00000e+00	0.00000e+00	0.00000e+00
86.5	0.00000e+00	0.00000e+00	0.00000e+00
86.6	0.00000e+00	0.00000e+00	0.00000e+00
86.7	0.00000e+00	0.00000e+00	0.00000e+00
86.8	0.00000e+00	0.00000e+00	0.00000e+00
86.9	0.00000e+00	0.00000e+00	0.00000e+00
87.0	0.00000e+00	0.00000e+00	0.00000e+00
87.1	0.00000e+00	0.00000e+00	0.00000e+00
87.2	0.00000e+00	0.00000e+00	0.00000e+00
87.3	0.00000e+00	0.00000e+00	0.00000e+00
87.4	0.00000e+00	0.00000e+00	0.00000e+00
87.5	0.00000e+00	0.00000e+00	0.00000e+00
87.6	0.00000e+00	0.00000e+00	0.00000e+00
87.7	0.00000e+00	0.00000e+00	0.00000e+00
87.8	0.00000e+00	0.00000e+00	0.00000e+00
87.9	0.00000e+00	0.00000e+00	0.00000e+00
88.0	0.00000e+00	0.00000e+00	0.00000e+00
88.1	0.00000e+00	0.00000e+00	0.00000e+00
88.2	0.00000e+00	0.00000e+00	0.00000e+00
88.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
88.4	0.00000e+00	0.00000e+00	0.00000e+00
88.5	0.00000e+00	0.00000e+00	0.00000e+00
88.6	0.00000e+00	0.00000e+00	0.00000e+00
88.7	0.00000e+00	0.00000e+00	0.00000e+00
88.8	0.00000e+00	0.00000e+00	0.00000e+00
88.9	0.00000e+00	0.00000e+00	0.00000e+00
89.0	0.00000e+00	0.00000e+00	0.00000e+00
89.1	0.00000e+00	0.00000e+00	0.00000e+00
89.2	0.00000e+00	0.00000e+00	0.00000e+00
89.3	0.00000e+00	0.00000e+00	0.00000e+00
89.4	0.00000e+00	0.00000e+00	0.00000e+00
89.5	0.00000e+00	0.00000e+00	0.00000e+00
89.6	0.00000e+00	0.00000e+00	0.00000e+00
89.7	0.00000e+00	0.00000e+00	0.00000e+00
89.8	0.00000e+00	0.00000e+00	0.00000e+00
89.9	0.00000e+00	0.00000e+00	0.00000e+00
90.0	0.00000e+00	0.00000e+00	0.00000e+00
90.1	0.00000e+00	0.00000e+00	0.00000e+00
90.2	0.00000e+00	0.00000e+00	0.00000e+00
90.3	0.00000e+00	0.00000e+00	0.00000e+00
90.4	0.00000e+00	0.00000e+00	0.00000e+00
90.5	0.00000e+00	0.00000e+00	0.00000e+00
90.6	0.00000e+00	0.00000e+00	0.00000e+00
90.7	0.00000e+00	0.00000e+00	0.00000e+00
90.8	0.00000e+00	0.00000e+00	0.00000e+00
90.9	0.00000e+00	0.00000e+00	0.00000e+00
91.0	0.00000e+00	0.00000e+00	0.00000e+00
91.1	0.00000e+00	0.00000e+00	0.00000e+00
91.2	0.00000e+00	0.00000e+00	0.00000e+00
91.3	0.00000e+00	0.00000e+00	0.00000e+00
91.4	0.00000e+00	0.00000e+00	0.00000e+00
91.5	0.00000e+00	0.00000e+00	0.00000e+00
91.6	0.00000e+00	0.00000e+00	0.00000e+00
91.7	0.00000e+00	0.00000e+00	0.00000e+00
91.8	0.00000e+00	0.00000e+00	0.00000e+00
91.9	0.00000e+00	0.00000e+00	0.00000e+00
92.0	0.00000e+00	0.00000e+00	0.00000e+00
92.1	0.00000e+00	0.00000e+00	0.00000e+00
92.2	0.00000e+00	0.00000e+00	0.00000e+00
92.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
92.4	0.00000e+00	0.00000e+00	0.00000e+00
92.5	0.00000e+00	0.00000e+00	0.00000e+00
92.6	0.00000e+00	0.00000e+00	0.00000e+00
92.7	0.00000e+00	0.00000e+00	0.00000e+00
92.8	0.00000e+00	0.00000e+00	0.00000e+00
92.9	0.00000e+00	0.00000e+00	0.00000e+00
93.0	0.00000e+00	0.00000e+00	0.00000e+00
93.1	0.00000e+00	0.00000e+00	0.00000e+00
93.2	0.00000e+00	0.00000e+00	0.00000e+00
93.3	0.00000e+00	0.00000e+00	0.00000e+00
93.4	0.00000e+00	0.00000e+00	0.00000e+00
93.5	0.00000e+00	0.00000e+00	0.00000e+00
93.6	0.00000e+00	0.00000e+00	0.00000e+00
93.7	0.00000e+00	0.00000e+00	0.00000e+00
93.8	0.00000e+00	0.00000e+00	0.00000e+00
93.9	0.00000e+00	0.00000e+00	0.00000e+00
94.0	0.00000e+00	0.00000e+00	0.00000e+00
94.1	0.00000e+00	0.00000e+00	0.00000e+00
94.2	0.00000e+00	0.00000e+00	0.00000e+00
94.3	0.00000e+00	0.00000e+00	0.00000e+00
94.4	0.00000e+00	0.00000e+00	0.00000e+00
94.5	0.00000e+00	0.00000e+00	0.00000e+00
94.6	0.00000e+00	0.00000e+00	0.00000e+00
94.7	0.00000e+00	0.00000e+00	0.00000e+00
94.8	0.00000e+00	0.00000e+00	0.00000e+00
94.9	0.00000e+00	0.00000e+00	0.00000e+00
95.0	0.00000e+00	0.00000e+00	0.00000e+00
95.1	0.00000e+00	0.00000e+00	0.00000e+00
95.2	0.00000e+00	0.00000e+00	0.00000e+00
95.3	0.00000e+00	0.00000e+00	0.00000e+00
95.4	0.00000e+00	0.00000e+00	0.00000e+00
95.5	0.00000e+00	0.00000e+00	0.00000e+00
95.6	0.00000e+00	0.00000e+00	0.00000e+00
95.7	0.00000e+00	0.00000e+00	0.00000e+00
95.8	0.00000e+00	0.00000e+00	0.00000e+00
95.9	0.00000e+00	0.00000e+00	0.00000e+00
96.0	0.00000e+00	0.00000e+00	0.00000e+00
96.1	0.00000e+00	0.00000e+00	0.00000e+00
96.2	0.00000e+00	0.00000e+00	0.00000e+00
96.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
96.4	0.00000e+00	0.00000e+00	0.00000e+00
96.5	0.00000e+00	0.00000e+00	0.00000e+00
96.6	0.00000e+00	0.00000e+00	0.00000e+00
96.7	0.00000e+00	0.00000e+00	0.00000e+00
96.8	0.00000e+00	0.00000e+00	0.00000e+00
96.9	0.00000e+00	0.00000e+00	0.00000e+00
97.0	0.00000e+00	0.00000e+00	0.00000e+00
97.1	0.00000e+00	0.00000e+00	0.00000e+00
97.2	0.00000e+00	0.00000e+00	0.00000e+00
97.3	0.00000e+00	0.00000e+00	0.00000e+00
97.4	0.00000e+00	0.00000e+00	0.00000e+00
97.5	0.00000e+00	0.00000e+00	0.00000e+00
97.6	0.00000e+00	0.00000e+00	0.00000e+00
97.7	0.00000e+00	0.00000e+00	0.00000e+00
97.8	0.00000e+00	0.00000e+00	0.00000e+00
97.9	0.00000e+00	0.00000e+00	0.00000e+00
98.0	0.00000e+00	0.00000e+00	0.00000e+00
98.1	0.00000e+00	0.00000e+00	0.00000e+00
98.2	0.00000e+00	0.00000e+00	0.00000e+00
98.3	0.00000e+00	0.00000e+00	0.00000e+00
98.4	0.00000e+00	0.00000e+00	0.00000e+00
98.5	0.00000e+00	0.00000e+00	0.00000e+00
98.6	0.00000e+00	0.00000e+00	0.00000e+00
98.7	0.00000e+00	0.00000e+00	0.00000e+00
98.8	0.00000e+00	0.00000e+00	0.00000e+00
98.9	0.00000e+00	0.00000e+00	0.00000e+00
99.0	0.00000e+00	0.00000e+00	0.00000e+00
99.1	0.00000e+00	0.00000e+00	0.00000e+00
99.2	0.00000e+00	0.00000e+00	0.00000e+00
99.3	0.00000e+00	0.00000e+00	0.00000e+00
99.4	0.00000e+00	0.00000e+00	0.00000e+00
99.5	0.00000e+00	0.00000e+00	0.00000e+00
99.6	0.00000e+00	0.00000e+00	0.00000e+00
99.7	0.00000e+00	0.00000e+00	0.00000e+00
99.8	0.00000e+00	0.00000e+00	0.00000e+00
99.9	0.00000e+00	0.00000e+00	0.00000e+00
100.0	0.00000e+00	0.00000e+00	0.00000e+00
100.1	0.00000e+00	0.00000e+00	0.00000e+00
100.2	0.00000e+00	0.00000e+00	0.00000e+00
100.3	0.00000e+00	0.00000e+00	0.00000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
100.4	0.00000e+00	0.00000e+00	0.00000e+00
100.5	0.00000e+00	0.00000e+00	0.00000e+00
100.6	0.00000e+00	0.00000e+00	0.00000e+00
100.7	0.00000e+00	0.00000e+00	0.00000e+00
100.8	0.00000e+00	0.00000e+00	0.00000e+00
100.9	0.00000e+00	0.00000e+00	0.00000e+00
101.0	0.00000e+00	0.00000e+00	0.00000e+00
101.1	0.00000e+00	0.00000e+00	0.00000e+00
101.2	0.00000e+00	0.00000e+00	0.00000e+00
101.3	0.00000e+00	0.00000e+00	0.00000e+00
101.4	0.00000e+00	0.00000e+00	0.00000e+00
101.5	0.00000e+00	0.00000e+00	0.00000e+00
101.6	0.00000e+00	0.00000e+00	0.00000e+00
101.7	0.00000e+00	0.00000e+00	0.00000e+00
101.8	0.00000e+00	0.00000e+00	0.00000e+00
101.9	0.00000e+00	0.00000e+00	0.00000e+00
102.0	0.00000e+00	0.00000e+00	0.00000e+00
102.1	0.00000e+00	0.00000e+00	0.00000e+00
102.2	0.00000e+00	0.00000e+00	0.00000e+00
102.3	0.00000e+00	0.00000e+00	0.00000e+00
102.4	0.00000e+00	0.00000e+00	0.00000e+00
102.5	0.00000e+00	0.00000e+00	0.00000e+00
102.6	0.00000e+00	0.00000e+00	0.00000e+00
102.7	0.00000e+00	0.00000e+00	0.00000e+00
102.8	0.00000e+00	0.00000e+00	0.00000e+00
102.9	0.00000e+00	0.00000e+00	0.00000e+00
103.0	0.00000e+00	0.00000e+00	0.00000e+00
103.1	0.00000e+00	0.00000e+00	0.00000e+00
103.2	0.00000e+00	0.00000e+00	0.00000e+00
103.3	0.00000e+00	0.00000e+00	0.00000e+00
103.4	0.00000e+00	0.00000e+00	0.00000e+00
103.5	0.00000e+00	0.00000e+00	0.00000e+00
103.6	0.00000e+00	0.00000e+00	0.00000e+00
103.7	0.00000e+00	0.00000e+00	0.00000e+00
103.8	0.00000e+00	0.00000e+00	0.00000e+00
103.9	0.00000e+00	0.00000e+00	0.00000e+00
104.0	0.00000e+00	0.00000e+00	0.00000e+00
104.1	0.00000e+00	0.00000e+00	0.00000e+00
104.2	0.00000e+00	0.00000e+00	0.00000e+00
104.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
104.4	0.00000e+00	0.00000e+00	0.00000e+00
104.5	0.00000e+00	0.00000e+00	0.00000e+00
104.6	0.00000e+00	0.00000e+00	0.00000e+00
104.7	0.00000e+00	0.00000e+00	0.00000e+00
104.8	0.00000e+00	0.00000e+00	0.00000e+00
104.9	0.00000e+00	0.00000e+00	0.00000e+00
105.0	0.00000e+00	0.00000e+00	0.00000e+00
105.1	0.00000e+00	0.00000e+00	0.00000e+00
105.2	0.00000e+00	0.00000e+00	0.00000e+00
105.3	0.00000e+00	0.00000e+00	0.00000e+00
105.4	0.00000e+00	0.00000e+00	0.00000e+00
105.5	0.00000e+00	0.00000e+00	0.00000e+00
105.6	0.00000e+00	0.00000e+00	0.00000e+00
105.7	0.00000e+00	0.00000e+00	0.00000e+00
105.8	0.00000e+00	0.00000e+00	0.00000e+00
105.9	0.00000e+00	0.00000e+00	0.00000e+00
106.0	0.00000e+00	0.00000e+00	0.00000e+00
106.1	0.00000e+00	0.00000e+00	0.00000e+00
106.2	0.00000e+00	0.00000e+00	0.00000e+00
106.3	0.00000e+00	0.00000e+00	0.00000e+00
106.4	0.00000e+00	0.00000e+00	0.00000e+00
106.5	0.00000e+00	0.00000e+00	0.00000e+00
106.6	0.00000e+00	0.00000e+00	0.00000e+00
106.7	0.00000e+00	0.00000e+00	0.00000e+00
106.8	0.00000e+00	0.00000e+00	0.00000e+00
106.9	0.00000e+00	0.00000e+00	0.00000e+00
107.0	0.00000e+00	0.00000e+00	0.00000e+00
107.1	0.00000e+00	0.00000e+00	0.00000e+00
107.2	0.00000e+00	0.00000e+00	0.00000e+00
107.3	0.00000e+00	0.00000e+00	0.00000e+00
107.4	0.00000e+00	0.00000e+00	0.00000e+00
107.5	0.00000e+00	0.00000e+00	0.00000e+00
107.6	0.00000e+00	0.00000e+00	0.00000e+00
107.7	0.00000e+00	0.00000e+00	0.00000e+00
107.8	0.00000e+00	0.00000e+00	0.00000e+00
107.9	0.00000e+00	0.00000e+00	0.00000e+00
108.0	0.00000e+00	0.00000e+00	0.00000e+00
108.1	0.00000e+00	0.00000e+00	0.00000e+00
108.2	0.00000e+00	0.00000e+00	0.00000e+00
108.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
108.4	0.00000e+00	0.00000e+00	0.00000e+00
108.5	0.00000e+00	0.00000e+00	0.00000e+00
108.6	0.00000e+00	0.00000e+00	0.00000e+00
108.7	0.00000e+00	0.00000e+00	0.00000e+00
108.8	0.00000e+00	0.00000e+00	0.00000e+00
108.9	0.00000e+00	0.00000e+00	0.00000e+00
109.0	0.00000e+00	0.00000e+00	0.00000e+00
109.1	0.00000e+00	0.00000e+00	0.00000e+00
109.2	0.00000e+00	0.00000e+00	0.00000e+00
109.3	0.00000e+00	0.00000e+00	0.00000e+00
109.4	0.00000e+00	0.00000e+00	0.00000e+00
109.5	0.00000e+00	0.00000e+00	0.00000e+00
109.6	0.00000e+00	0.00000e+00	0.00000e+00
109.7	0.00000e+00	0.00000e+00	0.00000e+00
109.8	0.00000e+00	0.00000e+00	0.00000e+00
109.9	0.00000e+00	0.00000e+00	0.00000e+00
110.0	0.00000e+00	0.00000e+00	0.00000e+00
110.1	0.00000e+00	0.00000e+00	0.00000e+00
110.2	0.00000e+00	0.00000e+00	0.00000e+00
110.3	0.00000e+00	0.00000e+00	0.00000e+00
110.4	0.00000e+00	0.00000e+00	0.00000e+00
110.5	0.00000e+00	0.00000e+00	0.00000e+00
110.6	0.00000e+00	0.00000e+00	0.00000e+00
110.7	0.00000e+00	0.00000e+00	0.00000e+00
110.8	0.00000e+00	0.00000e+00	0.00000e+00
110.9	0.00000e+00	0.00000e+00	0.00000e+00
111.0	0.00000e+00	0.00000e+00	0.00000e+00
111.1	0.00000e+00	0.00000e+00	0.00000e+00
111.2	0.00000e+00	0.00000e+00	0.00000e+00
111.3	0.00000e+00	0.00000e+00	0.00000e+00
111.4	0.00000e+00	0.00000e+00	0.00000e+00
111.5	0.00000e+00	0.00000e+00	0.00000e+00
111.6	0.00000e+00	0.00000e+00	0.00000e+00
111.7	0.00000e+00	0.00000e+00	0.00000e+00
111.8	0.00000e+00	0.00000e+00	0.00000e+00
111.9	0.00000e+00	0.00000e+00	0.00000e+00
112.0	0.00000e+00	0.00000e+00	0.00000e+00
112.1	0.00000e+00	0.00000e+00	0.00000e+00
112.2	0.00000e+00	0.00000e+00	0.00000e+00
112.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
112.4	0.00000e+00	0.00000e+00	0.00000e+00
112.5	0.00000e+00	0.00000e+00	0.00000e+00
112.6	0.00000e+00	0.00000e+00	0.00000e+00
112.7	0.00000e+00	0.00000e+00	0.00000e+00
112.8	0.00000e+00	0.00000e+00	0.00000e+00
112.9	0.00000e+00	0.00000e+00	0.00000e+00
113.0	0.00000e+00	0.00000e+00	0.00000e+00
113.1	0.00000e+00	0.00000e+00	0.00000e+00
113.2	0.00000e+00	0.00000e+00	0.00000e+00
113.3	0.00000e+00	0.00000e+00	0.00000e+00
113.4	0.00000e+00	0.00000e+00	0.00000e+00
113.5	0.00000e+00	0.00000e+00	0.00000e+00
113.6	0.00000e+00	0.00000e+00	0.00000e+00
113.7	0.00000e+00	0.00000e+00	0.00000e+00
113.8	0.00000e+00	0.00000e+00	0.00000e+00
113.9	0.00000e+00	0.00000e+00	0.00000e+00
114.0	0.00000e+00	0.00000e+00	0.00000e+00
114.1	0.00000e+00	0.00000e+00	0.00000e+00
114.2	0.00000e+00	0.00000e+00	0.00000e+00
114.3	0.00000e+00	0.00000e+00	0.00000e+00
114.4	0.00000e+00	0.00000e+00	0.00000e+00
114.5	0.00000e+00	0.00000e+00	0.00000e+00
114.6	0.00000e+00	0.00000e+00	0.00000e+00
114.7	0.00000e+00	0.00000e+00	0.00000e+00
114.8	0.00000e+00	0.00000e+00	0.00000e+00
114.9	0.00000e+00	0.00000e+00	0.00000e+00
115.0	0.00000e+00	0.00000e+00	0.00000e+00
115.1	0.00000e+00	0.00000e+00	0.00000e+00
115.2	0.00000e+00	0.00000e+00	0.00000e+00
115.3	0.00000e+00	0.00000e+00	0.00000e+00
115.4	0.00000e+00	0.00000e+00	0.00000e+00
115.5	0.00000e+00	0.00000e+00	0.00000e+00
115.6	0.00000e+00	0.00000e+00	0.00000e+00
115.7	0.00000e+00	0.00000e+00	0.00000e+00
115.8	0.00000e+00	0.00000e+00	0.00000e+00
115.9	0.00000e+00	0.00000e+00	0.00000e+00
116.0	0.00000e+00	0.00000e+00	0.00000e+00
116.1	0.00000e+00	0.00000e+00	0.00000e+00
116.2	0.00000e+00	0.00000e+00	0.00000e+00
116.3	0.00000e+00	0.00000e+00	0.00000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
116.4	0.00000e+00	0.00000e+00	0.00000e+00
116.5	0.00000e+00	0.00000e+00	0.00000e+00
116.6	0.00000e+00	0.00000e+00	0.00000e+00
116.7	0.00000e+00	0.00000e+00	0.00000e+00
116.8	0.00000e+00	0.00000e+00	0.00000e+00
116.9	0.00000e+00	0.00000e+00	0.00000e+00
117.0	0.00000e+00	0.00000e+00	0.00000e+00
117.1	0.00000e+00	0.00000e+00	0.00000e+00
117.2	0.00000e+00	0.00000e+00	0.00000e+00
117.3	0.00000e+00	0.00000e+00	0.00000e+00
117.4	0.00000e+00	0.00000e+00	0.00000e+00
117.5	0.00000e+00	0.00000e+00	0.00000e+00
117.6	0.00000e+00	0.00000e+00	0.00000e+00
117.7	0.00000e+00	0.00000e+00	0.00000e+00
117.8	0.00000e+00	0.00000e+00	0.00000e+00
117.9	0.00000e+00	0.00000e+00	0.00000e+00
118.0	0.00000e+00	0.00000e+00	0.00000e+00
118.1	0.00000e+00	0.00000e+00	0.00000e+00
118.2	0.00000e+00	0.00000e+00	0.00000e+00
118.3	0.00000e+00	0.00000e+00	0.00000e+00
118.4	0.00000e+00	0.00000e+00	0.00000e+00
118.5	0.00000e+00	0.00000e+00	0.00000e+00
118.6	0.00000e+00	0.00000e+00	0.00000e+00
118.7	0.00000e+00	0.00000e+00	0.00000e+00
118.8	0.00000e+00	0.00000e+00	0.00000e+00
118.9	0.00000e+00	0.00000e+00	0.00000e+00
119.0	0.00000e+00	0.00000e+00	0.00000e+00
119.1	0.00000e+00	0.00000e+00	0.00000e+00
119.2	0.00000e+00	0.00000e+00	0.00000e+00
119.3	0.00000e+00	0.00000e+00	0.00000e+00
119.4	0.00000e+00	0.00000e+00	0.00000e+00
119.5	0.00000e+00	0.00000e+00	0.00000e+00
119.6	0.00000e+00	0.00000e+00	0.00000e+00
119.7	0.00000e+00	0.00000e+00	0.00000e+00
119.8	0.00000e+00	0.00000e+00	0.00000e+00
119.9	0.00000e+00	0.00000e+00	0.00000e+00
120.0	0.00000e+00	0.00000e+00	0.00000e+00
120.1	0.00000e+00	0.00000e+00	0.00000e+00
120.2	0.00000e+00	0.00000e+00	0.00000e+00
120.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
120.4	0.00000e+00	0.00000e+00	0.00000e+00
120.5	0.00000e+00	0.00000e+00	0.00000e+00
120.6	0.00000e+00	0.00000e+00	0.00000e+00
120.7	0.00000e+00	0.00000e+00	0.00000e+00
120.8	0.00000e+00	0.00000e+00	0.00000e+00
120.9	0.00000e+00	0.00000e+00	0.00000e+00
121.0	0.00000e+00	0.00000e+00	0.00000e+00
121.1	0.00000e+00	0.00000e+00	0.00000e+00
121.2	0.00000e+00	0.00000e+00	0.00000e+00
121.3	0.00000e+00	0.00000e+00	0.00000e+00
121.4	0.00000e+00	0.00000e+00	0.00000e+00
121.5	0.00000e+00	0.00000e+00	0.00000e+00
121.6	0.00000e+00	0.00000e+00	0.00000e+00
121.7	0.00000e+00	0.00000e+00	0.00000e+00
121.8	0.00000e+00	0.00000e+00	0.00000e+00
121.9	0.00000e+00	0.00000e+00	0.00000e+00
122.0	0.00000e+00	0.00000e+00	0.00000e+00
122.1	0.00000e+00	0.00000e+00	0.00000e+00
122.2	0.00000e+00	0.00000e+00	0.00000e+00
122.3	0.00000e+00	0.00000e+00	0.00000e+00
122.4	0.00000e+00	0.00000e+00	0.00000e+00
122.5	0.00000e+00	0.00000e+00	0.00000e+00
122.6	0.00000e+00	0.00000e+00	0.00000e+00
122.7	0.00000e+00	0.00000e+00	0.00000e+00
122.8	0.00000e+00	0.00000e+00	0.00000e+00
122.9	0.00000e+00	0.00000e+00	0.00000e+00
123.0	0.00000e+00	0.00000e+00	0.00000e+00
123.1	0.00000e+00	0.00000e+00	0.00000e+00
123.2	0.00000e+00	0.00000e+00	0.00000e+00
123.3	0.00000e+00	0.00000e+00	0.00000e+00
123.4	0.00000e+00	0.00000e+00	0.00000e+00
123.5	0.00000e+00	0.00000e+00	0.00000e+00
123.6	0.00000e+00	0.00000e+00	0.00000e+00
123.7	0.00000e+00	0.00000e+00	0.00000e+00
123.8	0.00000e+00	0.00000e+00	0.00000e+00
123.9	0.00000e+00	0.00000e+00	0.00000e+00
124.0	0.00000e+00	0.00000e+00	0.00000e+00
124.1	0.00000e+00	0.00000e+00	0.00000e+00
124.2	0.00000e+00	0.00000e+00	0.00000e+00
124.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
124.4	0.00000e+00	0.00000e+00	0.00000e+00
124.5	0.00000e+00	0.00000e+00	0.00000e+00
124.6	0.00000e+00	0.00000e+00	0.00000e+00
124.7	0.00000e+00	0.00000e+00	0.00000e+00
124.8	0.00000e+00	0.00000e+00	0.00000e+00
124.9	0.00000e+00	0.00000e+00	0.00000e+00
125.0	0.00000e+00	0.00000e+00	0.00000e+00
125.1	0.00000e+00	0.00000e+00	0.00000e+00
125.2	0.00000e+00	0.00000e+00	0.00000e+00
125.3	0.00000e+00	0.00000e+00	0.00000e+00
125.4	0.00000e+00	0.00000e+00	0.00000e+00
125.5	0.00000e+00	0.00000e+00	0.00000e+00
125.6	0.00000e+00	0.00000e+00	0.00000e+00
125.7	0.00000e+00	0.00000e+00	0.00000e+00
125.8	0.00000e+00	0.00000e+00	0.00000e+00
125.9	0.00000e+00	0.00000e+00	0.00000e+00
126.0	0.00000e+00	0.00000e+00	0.00000e+00
126.1	0.00000e+00	0.00000e+00	0.00000e+00
126.2	0.00000e+00	0.00000e+00	0.00000e+00
126.3	0.00000e+00	0.00000e+00	0.00000e+00
126.4	0.00000e+00	0.00000e+00	0.00000e+00
126.5	0.00000e+00	0.00000e+00	0.00000e+00
126.6	0.00000e+00	0.00000e+00	0.00000e+00
126.7	0.00000e+00	0.00000e+00	0.00000e+00
126.8	0.00000e+00	0.00000e+00	0.00000e+00
126.9	0.00000e+00	0.00000e+00	0.00000e+00
127.0	0.00000e+00	0.00000e+00	0.00000e+00
127.1	0.00000e+00	0.00000e+00	0.00000e+00
127.2	0.00000e+00	0.00000e+00	0.00000e+00
127.3	0.00000e+00	0.00000e+00	0.00000e+00
127.4	0.00000e+00	0.00000e+00	0.00000e+00
127.5	0.00000e+00	0.00000e+00	0.00000e+00
127.6	0.00000e+00	0.00000e+00	0.00000e+00
127.7	0.00000e+00	0.00000e+00	0.00000e+00
127.8	0.00000e+00	0.00000e+00	0.00000e+00
127.9	0.00000e+00	0.00000e+00	0.00000e+00
128.0	0.00000e+00	0.00000e+00	0.00000e+00
128.1	0.00000e+00	0.00000e+00	0.00000e+00
128.2	0.00000e+00	0.00000e+00	0.00000e+00
128.3	0.00000e+00	0.00000e+00	0.00000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
128.4	0.00000e+00	0.00000e+00	0.00000e+00
128.5	0.00000e+00	0.00000e+00	0.00000e+00
128.6	0.00000e+00	0.00000e+00	0.00000e+00
128.7	0.00000e+00	0.00000e+00	0.00000e+00
128.8	0.00000e+00	0.00000e+00	0.00000e+00
128.9	0.00000e+00	0.00000e+00	0.00000e+00
129.0	0.00000e+00	0.00000e+00	0.00000e+00
129.1	0.00000e+00	0.00000e+00	0.00000e+00
129.2	0.00000e+00	0.00000e+00	0.00000e+00
129.3	0.00000e+00	0.00000e+00	0.00000e+00
129.4	0.00000e+00	0.00000e+00	0.00000e+00
129.5	0.00000e+00	0.00000e+00	0.00000e+00
129.6	0.00000e+00	0.00000e+00	0.00000e+00
129.7	0.00000e+00	0.00000e+00	0.00000e+00
129.8	0.00000e+00	0.00000e+00	0.00000e+00
129.9	0.00000e+00	0.00000e+00	0.00000e+00
130.0	0.00000e+00	0.00000e+00	0.00000e+00
130.1	0.00000e+00	0.00000e+00	0.00000e+00
130.2	0.00000e+00	0.00000e+00	0.00000e+00
130.3	0.00000e+00	0.00000e+00	0.00000e+00
130.4	0.00000e+00	0.00000e+00	0.00000e+00
130.5	0.00000e+00	0.00000e+00	0.00000e+00
130.6	0.00000e+00	0.00000e+00	0.00000e+00
130.7	0.00000e+00	0.00000e+00	0.00000e+00
130.8	0.00000e+00	0.00000e+00	0.00000e+00
130.9	0.00000e+00	0.00000e+00	0.00000e+00
131.0	0.00000e+00	0.00000e+00	0.00000e+00
131.1	0.00000e+00	0.00000e+00	0.00000e+00
131.2	0.00000e+00	0.00000e+00	0.00000e+00
131.3	0.00000e+00	0.00000e+00	0.00000e+00
131.4	0.00000e+00	0.00000e+00	0.00000e+00
131.5	0.00000e+00	0.00000e+00	0.00000e+00
131.6	0.00000e+00	0.00000e+00	0.00000e+00
131.7	0.00000e+00	0.00000e+00	0.00000e+00
131.8	0.00000e+00	0.00000e+00	0.00000e+00
131.9	0.00000e+00	0.00000e+00	0.00000e+00
132.0	0.00000e+00	0.00000e+00	0.00000e+00
132.1	0.00000e+00	0.00000e+00	0.00000e+00
132.2	0.00000e+00	0.00000e+00	0.00000e+00
132.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
132.4	0.00000e+00	0.00000e+00	0.00000e+00
132.5	0.00000e+00	0.00000e+00	0.00000e+00
132.6	0.00000e+00	0.00000e+00	0.00000e+00
132.7	0.00000e+00	0.00000e+00	0.00000e+00
132.8	0.00000e+00	0.00000e+00	0.00000e+00
132.9	0.00000e+00	0.00000e+00	0.00000e+00
133.0	0.00000e+00	0.00000e+00	0.00000e+00
133.1	0.00000e+00	0.00000e+00	0.00000e+00
133.2	0.00000e+00	0.00000e+00	0.00000e+00
133.3	0.00000e+00	0.00000e+00	0.00000e+00
133.4	0.00000e+00	0.00000e+00	0.00000e+00
133.5	0.00000e+00	0.00000e+00	0.00000e+00
133.6	0.00000e+00	0.00000e+00	0.00000e+00
133.7	0.00000e+00	0.00000e+00	0.00000e+00
133.8	0.00000e+00	0.00000e+00	0.00000e+00
133.9	0.00000e+00	0.00000e+00	0.00000e+00
134.0	0.00000e+00	0.00000e+00	0.00000e+00
134.1	0.00000e+00	0.00000e+00	0.00000e+00
134.2	0.00000e+00	0.00000e+00	0.00000e+00
134.3	0.00000e+00	0.00000e+00	0.00000e+00
134.4	0.00000e+00	0.00000e+00	0.00000e+00
134.5	0.00000e+00	0.00000e+00	0.00000e+00
134.6	0.00000e+00	0.00000e+00	0.00000e+00
134.7	0.00000e+00	0.00000e+00	0.00000e+00
134.8	0.00000e+00	0.00000e+00	0.00000e+00
134.9	0.00000e+00	0.00000e+00	0.00000e+00
135.0	0.00000e+00	0.00000e+00	0.00000e+00
135.1	0.00000e+00	0.00000e+00	0.00000e+00
135.2	0.00000e+00	0.00000e+00	0.00000e+00
135.3	0.00000e+00	0.00000e+00	0.00000e+00
135.4	0.00000e+00	0.00000e+00	0.00000e+00
135.5	0.00000e+00	0.00000e+00	0.00000e+00
135.6	0.00000e+00	0.00000e+00	0.00000e+00
135.7	0.00000e+00	0.00000e+00	0.00000e+00
135.8	0.00000e+00	0.00000e+00	0.00000e+00
135.9	0.00000e+00	0.00000e+00	0.00000e+00
136.0	0.00000e+00	0.00000e+00	0.00000e+00
136.1	0.00000e+00	0.00000e+00	0.00000e+00
136.2	0.00000e+00	0.00000e+00	0.00000e+00
136.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
136.4	0.00000e+00	0.00000e+00	0.00000e+00
136.5	0.00000e+00	0.00000e+00	0.00000e+00
136.6	0.00000e+00	0.00000e+00	0.00000e+00
136.7	0.00000e+00	0.00000e+00	0.00000e+00
136.8	0.00000e+00	0.00000e+00	0.00000e+00
136.9	0.00000e+00	0.00000e+00	0.00000e+00
137.0	0.00000e+00	0.00000e+00	0.00000e+00
137.1	0.00000e+00	0.00000e+00	0.00000e+00
137.2	0.00000e+00	0.00000e+00	0.00000e+00
137.3	0.00000e+00	0.00000e+00	0.00000e+00
137.4	0.00000e+00	0.00000e+00	0.00000e+00
137.5	0.00000e+00	0.00000e+00	0.00000e+00
137.6	0.00000e+00	0.00000e+00	0.00000e+00
137.7	0.00000e+00	0.00000e+00	0.00000e+00
137.8	0.00000e+00	0.00000e+00	0.00000e+00
137.9	0.00000e+00	0.00000e+00	0.00000e+00
138.0	0.00000e+00	0.00000e+00	0.00000e+00
138.1	0.00000e+00	0.00000e+00	0.00000e+00
138.2	0.00000e+00	0.00000e+00	0.00000e+00
138.3	0.00000e+00	0.00000e+00	0.00000e+00
138.4	0.00000e+00	0.00000e+00	0.00000e+00
138.5	0.00000e+00	0.00000e+00	0.00000e+00
138.6	0.00000e+00	0.00000e+00	0.00000e+00
138.7	0.00000e+00	0.00000e+00	0.00000e+00
138.8	0.00000e+00	0.00000e+00	0.00000e+00
138.9	0.00000e+00	0.00000e+00	0.00000e+00
139.0	0.00000e+00	0.00000e+00	0.00000e+00
139.1	0.00000e+00	0.00000e+00	0.00000e+00
139.2	0.00000e+00	0.00000e+00	0.00000e+00
139.3	0.00000e+00	0.00000e+00	0.00000e+00
139.4	0.00000e+00	0.00000e+00	0.00000e+00
139.5	0.00000e+00	0.00000e+00	0.00000e+00
139.6	0.00000e+00	0.00000e+00	0.00000e+00
139.7	0.00000e+00	0.00000e+00	0.00000e+00
139.8	0.00000e+00	0.00000e+00	0.00000e+00
139.9	0.00000e+00	0.00000e+00	0.00000e+00
140.0	0.00000e+00	0.00000e+00	0.00000e+00
140.1	0.00000e+00	0.00000e+00	0.00000e+00
140.2	0.00000e+00	0.00000e+00	0.00000e+00
140.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
140.4	0.00000e+00	0.00000e+00	0.00000e+00
140.5	0.00000e+00	0.00000e+00	0.00000e+00
140.6	0.00000e+00	0.00000e+00	0.00000e+00
140.7	0.00000e+00	0.00000e+00	0.00000e+00
140.8	0.00000e+00	0.00000e+00	0.00000e+00
140.9	0.00000e+00	0.00000e+00	0.00000e+00
141.0	0.00000e+00	0.00000e+00	0.00000e+00
141.1	0.00000e+00	0.00000e+00	0.00000e+00
141.2	0.00000e+00	0.00000e+00	0.00000e+00
141.3	0.00000e+00	0.00000e+00	0.00000e+00
141.4	0.00000e+00	0.00000e+00	0.00000e+00
141.5	0.00000e+00	0.00000e+00	0.00000e+00
141.6	0.00000e+00	0.00000e+00	0.00000e+00
141.7	0.00000e+00	0.00000e+00	0.00000e+00
141.8	0.00000e+00	0.00000e+00	0.00000e+00
141.9	0.00000e+00	0.00000e+00	0.00000e+00
142.0	0.00000e+00	0.00000e+00	0.00000e+00
142.1	0.00000e+00	0.00000e+00	0.00000e+00
142.2	0.00000e+00	0.00000e+00	0.00000e+00
142.3	0.00000e+00	0.00000e+00	0.00000e+00
142.4	0.00000e+00	0.00000e+00	0.00000e+00
142.5	0.00000e+00	0.00000e+00	0.00000e+00
142.6	0.00000e+00	0.00000e+00	0.00000e+00
142.7	0.00000e+00	0.00000e+00	0.00000e+00
142.8	0.00000e+00	0.00000e+00	0.00000e+00
142.9	0.00000e+00	0.00000e+00	0.00000e+00
143.0	0.00000e+00	0.00000e+00	0.00000e+00
143.1	0.00000e+00	0.00000e+00	0.00000e+00
143.2	0.00000e+00	0.00000e+00	0.00000e+00
143.3	0.00000e+00	0.00000e+00	0.00000e+00
143.4	0.00000e+00	0.00000e+00	0.00000e+00
143.5	0.00000e+00	0.00000e+00	0.00000e+00
143.6	0.00000e+00	0.00000e+00	0.00000e+00
143.7	0.00000e+00	0.00000e+00	0.00000e+00
143.8	0.00000e+00	0.00000e+00	0.00000e+00
143.9	0.00000e+00	0.00000e+00	0.00000e+00
144.0	0.00000e+00	0.00000e+00	0.00000e+00
144.1	0.00000e+00	0.00000e+00	0.00000e+00
144.2	0.00000e+00	0.00000e+00	0.00000e+00
144.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
144.4	0.00000e+00	0.00000e+00	0.00000e+00
144.5	0.00000e+00	0.00000e+00	0.00000e+00
144.6	0.00000e+00	0.00000e+00	0.00000e+00
144.7	0.00000e+00	0.00000e+00	0.00000e+00
144.8	0.00000e+00	0.00000e+00	0.00000e+00
144.9	0.00000e+00	0.00000e+00	0.00000e+00
145.0	0.00000e+00	0.00000e+00	0.00000e+00
145.1	0.00000e+00	0.00000e+00	0.00000e+00
145.2	0.00000e+00	0.00000e+00	0.00000e+00
145.3	0.00000e+00	0.00000e+00	0.00000e+00
145.4	0.00000e+00	0.00000e+00	0.00000e+00
145.5	0.00000e+00	0.00000e+00	0.00000e+00
145.6	0.00000e+00	0.00000e+00	0.00000e+00
145.7	0.00000e+00	0.00000e+00	0.00000e+00
145.8	0.00000e+00	0.00000e+00	0.00000e+00
145.9	0.00000e+00	0.00000e+00	0.00000e+00
146.0	0.00000e+00	0.00000e+00	0.00000e+00
146.1	0.00000e+00	0.00000e+00	0.00000e+00
146.2	0.00000e+00	0.00000e+00	0.00000e+00
146.3	0.00000e+00	0.00000e+00	0.00000e+00
146.4	0.00000e+00	0.00000e+00	0.00000e+00
146.5	0.00000e+00	0.00000e+00	0.00000e+00
146.6	0.00000e+00	0.00000e+00	0.00000e+00
146.7	0.00000e+00	0.00000e+00	0.00000e+00
146.8	0.00000e+00	0.00000e+00	0.00000e+00
146.9	0.00000e+00	0.00000e+00	0.00000e+00
147.0	0.00000e+00	0.00000e+00	0.00000e+00
147.1	0.00000e+00	0.00000e+00	0.00000e+00
147.2	0.00000e+00	0.00000e+00	0.00000e+00
147.3	0.00000e+00	0.00000e+00	0.00000e+00
147.4	0.00000e+00	0.00000e+00	0.00000e+00
147.5	0.00000e+00	0.00000e+00	0.00000e+00
147.6	0.00000e+00	0.00000e+00	0.00000e+00
147.7	0.00000e+00	0.00000e+00	0.00000e+00
147.8	0.00000e+00	0.00000e+00	0.00000e+00
147.9	0.00000e+00	0.00000e+00	0.00000e+00
148.0	0.00000e+00	0.00000e+00	0.00000e+00
148.1	0.00000e+00	0.00000e+00	0.00000e+00
148.2	0.00000e+00	0.00000e+00	0.00000e+00
148.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
148.4	0.00000e+00	0.00000e+00	0.00000e+00
148.5	0.00000e+00	0.00000e+00	0.00000e+00
148.6	0.00000e+00	0.00000e+00	0.00000e+00
148.7	0.00000e+00	0.00000e+00	0.00000e+00
148.8	0.00000e+00	0.00000e+00	0.00000e+00
148.9	0.00000e+00	0.00000e+00	0.00000e+00
149.0	0.00000e+00	0.00000e+00	0.00000e+00
149.1	0.00000e+00	0.00000e+00	0.00000e+00
149.2	0.00000e+00	0.00000e+00	0.00000e+00
149.3	0.00000e+00	0.00000e+00	0.00000e+00
149.4	0.00000e+00	0.00000e+00	0.00000e+00
149.5	0.00000e+00	0.00000e+00	0.00000e+00
149.6	0.00000e+00	0.00000e+00	0.00000e+00
149.7	0.00000e+00	0.00000e+00	0.00000e+00
149.8	0.00000e+00	0.00000e+00	0.00000e+00
149.9	0.00000e+00	0.00000e+00	0.00000e+00
150.0	0.00000e+00	0.00000e+00	0.00000e+00
150.1	0.00000e+00	0.00000e+00	0.00000e+00
150.2	0.00000e+00	0.00000e+00	0.00000e+00
150.3	0.00000e+00	0.00000e+00	0.00000e+00
150.4	0.00000e+00	0.00000e+00	0.00000e+00
150.5	0.00000e+00	0.00000e+00	0.00000e+00
150.6	0.00000e+00	0.00000e+00	0.00000e+00
150.7	0.00000e+00	0.00000e+00	0.00000e+00
150.8	0.00000e+00	0.00000e+00	0.00000e+00
150.9	0.00000e+00	0.00000e+00	0.00000e+00
151.0	0.00000e+00	0.00000e+00	0.00000e+00
151.1	0.00000e+00	0.00000e+00	0.00000e+00
151.2	0.00000e+00	0.00000e+00	0.00000e+00
151.3	0.00000e+00	0.00000e+00	0.00000e+00
151.4	0.00000e+00	0.00000e+00	0.00000e+00
151.5	0.00000e+00	0.00000e+00	0.00000e+00
151.6	0.00000e+00	0.00000e+00	0.00000e+00
151.7	0.00000e+00	0.00000e+00	0.00000e+00
151.8	0.00000e+00	0.00000e+00	0.00000e+00
151.9	0.00000e+00	0.00000e+00	0.00000e+00
152.0	0.00000e+00	0.00000e+00	0.00000e+00
152.1	0.00000e+00	0.00000e+00	0.00000e+00
152.2	0.00000e+00	0.00000e+00	0.00000e+00
152.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
152.4	0.00000e+00	0.00000e+00	0.00000e+00
152.5	0.00000e+00	0.00000e+00	0.00000e+00
152.6	0.00000e+00	0.00000e+00	0.00000e+00
152.7	0.00000e+00	0.00000e+00	0.00000e+00
152.8	0.00000e+00	0.00000e+00	0.00000e+00
152.9	0.00000e+00	0.00000e+00	0.00000e+00
153.0	0.00000e+00	0.00000e+00	0.00000e+00
153.1	0.00000e+00	0.00000e+00	0.00000e+00
153.2	0.00000e+00	0.00000e+00	0.00000e+00
153.3	0.00000e+00	0.00000e+00	0.00000e+00
153.4	0.00000e+00	0.00000e+00	0.00000e+00
153.5	0.00000e+00	0.00000e+00	0.00000e+00
153.6	0.00000e+00	0.00000e+00	0.00000e+00
153.7	0.00000e+00	0.00000e+00	0.00000e+00
153.8	0.00000e+00	0.00000e+00	0.00000e+00
153.9	0.00000e+00	0.00000e+00	0.00000e+00
154.0	0.00000e+00	0.00000e+00	0.00000e+00
154.1	0.00000e+00	0.00000e+00	0.00000e+00
154.2	0.00000e+00	0.00000e+00	0.00000e+00
154.3	0.00000e+00	0.00000e+00	0.00000e+00
154.4	0.00000e+00	0.00000e+00	0.00000e+00
154.5	0.00000e+00	0.00000e+00	0.00000e+00
154.6	0.00000e+00	0.00000e+00	0.00000e+00
154.7	0.00000e+00	0.00000e+00	0.00000e+00
154.8	0.00000e+00	0.00000e+00	0.00000e+00
154.9	0.00000e+00	0.00000e+00	0.00000e+00
155.0	0.00000e+00	0.00000e+00	0.00000e+00
155.1	0.00000e+00	0.00000e+00	0.00000e+00
155.2	0.00000e+00	0.00000e+00	0.00000e+00
155.3	0.00000e+00	0.00000e+00	0.00000e+00
155.4	0.00000e+00	0.00000e+00	0.00000e+00
155.5	0.00000e+00	0.00000e+00	0.00000e+00
155.6	0.00000e+00	0.00000e+00	0.00000e+00
155.7	0.00000e+00	0.00000e+00	0.00000e+00
155.8	0.00000e+00	0.00000e+00	0.00000e+00
155.9	0.00000e+00	0.00000e+00	0.00000e+00
156.0	0.00000e+00	0.00000e+00	0.00000e+00
156.1	0.00000e+00	0.00000e+00	0.00000e+00
156.2	0.00000e+00	0.00000e+00	0.00000e+00
156.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
156.4	0.00000e+00	0.00000e+00	0.00000e+00
156.5	0.00000e+00	0.00000e+00	0.00000e+00
156.6	0.00000e+00	0.00000e+00	0.00000e+00
156.7	0.00000e+00	0.00000e+00	0.00000e+00
156.8	0.00000e+00	0.00000e+00	0.00000e+00
156.9	0.00000e+00	0.00000e+00	0.00000e+00
157.0	0.00000e+00	0.00000e+00	0.00000e+00
157.1	0.00000e+00	0.00000e+00	0.00000e+00
157.2	0.00000e+00	0.00000e+00	0.00000e+00
157.3	0.00000e+00	0.00000e+00	0.00000e+00
157.4	0.00000e+00	0.00000e+00	0.00000e+00
157.5	0.00000e+00	0.00000e+00	0.00000e+00
157.6	0.00000e+00	0.00000e+00	0.00000e+00
157.7	0.00000e+00	0.00000e+00	0.00000e+00
157.8	0.00000e+00	0.00000e+00	0.00000e+00
157.9	0.00000e+00	0.00000e+00	0.00000e+00
158.0	0.00000e+00	0.00000e+00	0.00000e+00
158.1	0.00000e+00	0.00000e+00	0.00000e+00
158.2	0.00000e+00	0.00000e+00	0.00000e+00
158.3	0.00000e+00	0.00000e+00	0.00000e+00
158.4	0.00000e+00	0.00000e+00	0.00000e+00
158.5	0.00000e+00	0.00000e+00	0.00000e+00
158.6	0.00000e+00	0.00000e+00	0.00000e+00
158.7	0.00000e+00	0.00000e+00	0.00000e+00
158.8	0.00000e+00	0.00000e+00	0.00000e+00
158.9	0.00000e+00	0.00000e+00	0.00000e+00
159.0	0.00000e+00	0.00000e+00	0.00000e+00
159.1	0.00000e+00	0.00000e+00	0.00000e+00
159.2	0.00000e+00	0.00000e+00	0.00000e+00
159.3	0.00000e+00	0.00000e+00	0.00000e+00
159.4	0.00000e+00	0.00000e+00	0.00000e+00
159.5	0.00000e+00	0.00000e+00	0.00000e+00
159.6	0.00000e+00	0.00000e+00	0.00000e+00
159.7	0.00000e+00	0.00000e+00	0.00000e+00
159.8	0.00000e+00	0.00000e+00	0.00000e+00
159.9	0.00000e+00	0.00000e+00	0.00000e+00
160.0	0.00000e+00	0.00000e+00	0.00000e+00
160.1	0.00000e+00	0.00000e+00	0.00000e+00
160.2	0.00000e+00	0.00000e+00	0.00000e+00
160.3	0.00000e+00	0.00000e+00	0.00000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
160.4	0.00000e+00	0.00000e+00	0.00000e+00
160.5	0.00000e+00	0.00000e+00	0.00000e+00
160.6	0.00000e+00	0.00000e+00	0.00000e+00
160.7	0.00000e+00	0.00000e+00	0.00000e+00
160.8	0.00000e+00	0.00000e+00	0.00000e+00
160.9	0.00000e+00	0.00000e+00	0.00000e+00
161.0	0.00000e+00	0.00000e+00	0.00000e+00
161.1	0.00000e+00	0.00000e+00	0.00000e+00
161.2	0.00000e+00	0.00000e+00	0.00000e+00
161.3	0.00000e+00	0.00000e+00	0.00000e+00
161.4	0.00000e+00	0.00000e+00	0.00000e+00
161.5	0.00000e+00	0.00000e+00	0.00000e+00
161.6	0.00000e+00	0.00000e+00	0.00000e+00
161.7	0.00000e+00	0.00000e+00	0.00000e+00
161.8	0.00000e+00	0.00000e+00	0.00000e+00
161.9	0.00000e+00	0.00000e+00	0.00000e+00
162.0	0.00000e+00	0.00000e+00	0.00000e+00
162.1	0.00000e+00	0.00000e+00	0.00000e+00
162.2	0.00000e+00	0.00000e+00	0.00000e+00
162.3	0.00000e+00	0.00000e+00	0.00000e+00
162.4	0.00000e+00	0.00000e+00	0.00000e+00
162.5	0.00000e+00	0.00000e+00	0.00000e+00
162.6	0.00000e+00	0.00000e+00	0.00000e+00
162.7	0.00000e+00	0.00000e+00	0.00000e+00
162.8	0.00000e+00	0.00000e+00	0.00000e+00
162.9	0.00000e+00	0.00000e+00	0.00000e+00
163.0	0.00000e+00	0.00000e+00	0.00000e+00
163.1	0.00000e+00	0.00000e+00	0.00000e+00
163.2	0.00000e+00	0.00000e+00	0.00000e+00
163.3	0.00000e+00	0.00000e+00	0.00000e+00
163.4	0.00000e+00	0.00000e+00	0.00000e+00
163.5	0.00000e+00	0.00000e+00	0.00000e+00
163.6	0.00000e+00	0.00000e+00	0.00000e+00
163.7	0.00000e+00	0.00000e+00	0.00000e+00
163.8	0.00000e+00	0.00000e+00	0.00000e+00
163.9	0.00000e+00	0.00000e+00	0.00000e+00
164.0	0.00000e+00	0.00000e+00	0.00000e+00
164.1	0.00000e+00	0.00000e+00	0.00000e+00
164.2	0.00000e+00	0.00000e+00	0.00000e+00
164.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
164.4	0.00000e+00	0.00000e+00	0.00000e+00
164.5	0.00000e+00	0.00000e+00	0.00000e+00
164.6	0.00000e+00	0.00000e+00	0.00000e+00
164.7	0.00000e+00	0.00000e+00	0.00000e+00
164.8	0.00000e+00	0.00000e+00	0.00000e+00
164.9	0.00000e+00	0.00000e+00	0.00000e+00
165.0	0.00000e+00	0.00000e+00	0.00000e+00
165.1	0.00000e+00	0.00000e+00	0.00000e+00
165.2	0.00000e+00	0.00000e+00	0.00000e+00
165.3	0.00000e+00	0.00000e+00	0.00000e+00
165.4	0.00000e+00	0.00000e+00	0.00000e+00
165.5	0.00000e+00	0.00000e+00	0.00000e+00
165.6	0.00000e+00	0.00000e+00	0.00000e+00
165.7	0.00000e+00	0.00000e+00	0.00000e+00
165.8	0.00000e+00	0.00000e+00	0.00000e+00
165.9	0.00000e+00	0.00000e+00	0.00000e+00
166.0	0.00000e+00	0.00000e+00	0.00000e+00
166.1	0.00000e+00	0.00000e+00	0.00000e+00
166.2	0.00000e+00	0.00000e+00	0.00000e+00
166.3	0.00000e+00	0.00000e+00	0.00000e+00
166.4	0.00000e+00	0.00000e+00	0.00000e+00
166.5	0.00000e+00	0.00000e+00	0.00000e+00
166.6	0.00000e+00	0.00000e+00	0.00000e+00
166.7	0.00000e+00	0.00000e+00	0.00000e+00
166.8	0.00000e+00	0.00000e+00	0.00000e+00
166.9	0.00000e+00	0.00000e+00	0.00000e+00
167.0	0.00000e+00	0.00000e+00	0.00000e+00
167.1	0.00000e+00	0.00000e+00	0.00000e+00
167.2	0.00000e+00	0.00000e+00	0.00000e+00
167.3	0.00000e+00	0.00000e+00	0.00000e+00
167.4	0.00000e+00	0.00000e+00	0.00000e+00
167.5	0.00000e+00	0.00000e+00	0.00000e+00
167.6	0.00000e+00	0.00000e+00	0.00000e+00
167.7	0.00000e+00	0.00000e+00	0.00000e+00
167.8	0.00000e+00	0.00000e+00	0.00000e+00
167.9	0.00000e+00	0.00000e+00	0.00000e+00
168.0	0.00000e+00	0.00000e+00	0.00000e+00
168.1	0.00000e+00	0.00000e+00	0.00000e+00
168.2	0.00000e+00	0.00000e+00	0.00000e+00
168.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
168.4	0.00000e+00	0.00000e+00	0.00000e+00
168.5	0.00000e+00	0.00000e+00	0.00000e+00
168.6	0.00000e+00	0.00000e+00	0.00000e+00
168.7	0.00000e+00	0.00000e+00	0.00000e+00
168.8	0.00000e+00	0.00000e+00	0.00000e+00
168.9	0.00000e+00	0.00000e+00	0.00000e+00
169.0	0.00000e+00	0.00000e+00	0.00000e+00
169.1	0.00000e+00	0.00000e+00	0.00000e+00
169.2	0.00000e+00	0.00000e+00	0.00000e+00
169.3	0.00000e+00	0.00000e+00	0.00000e+00
169.4	0.00000e+00	0.00000e+00	0.00000e+00
169.5	0.00000e+00	0.00000e+00	0.00000e+00
169.6	0.00000e+00	0.00000e+00	0.00000e+00
169.7	0.00000e+00	0.00000e+00	0.00000e+00
169.8	0.00000e+00	0.00000e+00	0.00000e+00
169.9	0.00000e+00	0.00000e+00	0.00000e+00
170.0	0.00000e+00	0.00000e+00	0.00000e+00
170.1	0.00000e+00	0.00000e+00	0.00000e+00
170.2	0.00000e+00	0.00000e+00	0.00000e+00
170.3	0.00000e+00	0.00000e+00	0.00000e+00
170.4	0.00000e+00	0.00000e+00	0.00000e+00
170.5	0.00000e+00	0.00000e+00	0.00000e+00
170.6	0.00000e+00	0.00000e+00	0.00000e+00
170.7	0.00000e+00	0.00000e+00	0.00000e+00
170.8	0.00000e+00	0.00000e+00	0.00000e+00
170.9	0.00000e+00	0.00000e+00	0.00000e+00
171.0	0.00000e+00	0.00000e+00	0.00000e+00
171.1	0.00000e+00	0.00000e+00	0.00000e+00
171.2	0.00000e+00	0.00000e+00	0.00000e+00
171.3	0.00000e+00	0.00000e+00	0.00000e+00
171.4	0.00000e+00	0.00000e+00	0.00000e+00
171.5	0.00000e+00	0.00000e+00	0.00000e+00
171.6	0.00000e+00	0.00000e+00	0.00000e+00
171.7	0.00000e+00	0.00000e+00	0.00000e+00
171.8	0.00000e+00	0.00000e+00	0.00000e+00
171.9	0.00000e+00	0.00000e+00	0.00000e+00
172.0	0.00000e+00	0.00000e+00	0.00000e+00
172.1	0.00000e+00	0.00000e+00	0.00000e+00
172.2	0.00000e+00	0.00000e+00	0.00000e+00
172.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
172.4	0.00000e+00	0.00000e+00	0.00000e+00
172.5	0.00000e+00	0.00000e+00	0.00000e+00
172.6	0.00000e+00	0.00000e+00	0.00000e+00
172.7	0.00000e+00	0.00000e+00	0.00000e+00
172.8	0.00000e+00	0.00000e+00	0.00000e+00
172.9	0.00000e+00	0.00000e+00	0.00000e+00
173.0	0.00000e+00	0.00000e+00	0.00000e+00
173.1	0.00000e+00	0.00000e+00	0.00000e+00
173.2	0.00000e+00	0.00000e+00	0.00000e+00
173.3	0.00000e+00	0.00000e+00	0.00000e+00
173.4	0.00000e+00	0.00000e+00	0.00000e+00
173.5	0.00000e+00	0.00000e+00	0.00000e+00
173.6	0.00000e+00	0.00000e+00	0.00000e+00
173.7	0.00000e+00	0.00000e+00	0.00000e+00
173.8	0.00000e+00	0.00000e+00	0.00000e+00
173.9	0.00000e+00	0.00000e+00	0.00000e+00
174.0	0.00000e+00	0.00000e+00	0.00000e+00
174.1	0.00000e+00	0.00000e+00	0.00000e+00
174.2	0.00000e+00	0.00000e+00	0.00000e+00
174.3	0.00000e+00	0.00000e+00	0.00000e+00
174.4	0.00000e+00	0.00000e+00	0.00000e+00
174.5	0.00000e+00	0.00000e+00	0.00000e+00
174.6	0.00000e+00	0.00000e+00	0.00000e+00
174.7	0.00000e+00	0.00000e+00	0.00000e+00
174.8	0.00000e+00	0.00000e+00	0.00000e+00
174.9	0.00000e+00	0.00000e+00	0.00000e+00
175.0	0.00000e+00	0.00000e+00	0.00000e+00
175.1	0.00000e+00	0.00000e+00	0.00000e+00
175.2	0.00000e+00	0.00000e+00	0.00000e+00
175.3	0.00000e+00	0.00000e+00	0.00000e+00
175.4	0.00000e+00	0.00000e+00	0.00000e+00
175.5	0.00000e+00	0.00000e+00	0.00000e+00
175.6	0.00000e+00	0.00000e+00	0.00000e+00
175.7	0.00000e+00	0.00000e+00	0.00000e+00
175.8	0.00000e+00	0.00000e+00	0.00000e+00
175.9	0.00000e+00	0.00000e+00	0.00000e+00
176.0	0.00000e+00	0.00000e+00	0.00000e+00
176.1	0.00000e+00	0.00000e+00	0.00000e+00
176.2	0.00000e+00	0.00000e+00	0.00000e+00
176.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
176.4	0.00000e+00	0.00000e+00	0.00000e+00
176.5	0.00000e+00	0.00000e+00	0.00000e+00
176.6	0.00000e+00	0.00000e+00	0.00000e+00
176.7	0.00000e+00	0.00000e+00	0.00000e+00
176.8	0.00000e+00	0.00000e+00	0.00000e+00
176.9	0.00000e+00	0.00000e+00	0.00000e+00
177.0	0.00000e+00	0.00000e+00	0.00000e+00
177.1	0.00000e+00	0.00000e+00	0.00000e+00
177.2	0.00000e+00	0.00000e+00	0.00000e+00
177.3	0.00000e+00	0.00000e+00	0.00000e+00
177.4	0.00000e+00	0.00000e+00	0.00000e+00
177.5	0.00000e+00	0.00000e+00	0.00000e+00
177.6	0.00000e+00	0.00000e+00	0.00000e+00
177.7	0.00000e+00	0.00000e+00	0.00000e+00
177.8	0.00000e+00	0.00000e+00	0.00000e+00
177.9	0.00000e+00	0.00000e+00	0.00000e+00
178.0	0.00000e+00	0.00000e+00	0.00000e+00
178.1	0.00000e+00	0.00000e+00	0.00000e+00
178.2	0.00000e+00	0.00000e+00	0.00000e+00
178.3	0.00000e+00	0.00000e+00	0.00000e+00
178.4	0.00000e+00	0.00000e+00	0.00000e+00
178.5	0.00000e+00	0.00000e+00	0.00000e+00
178.6	0.00000e+00	0.00000e+00	0.00000e+00
178.7	0.00000e+00	0.00000e+00	0.00000e+00
178.8	0.00000e+00	0.00000e+00	0.00000e+00
178.9	0.00000e+00	0.00000e+00	0.00000e+00
179.0	0.00000e+00	0.00000e+00	0.00000e+00
179.1	0.00000e+00	0.00000e+00	0.00000e+00
179.2	0.00000e+00	0.00000e+00	0.00000e+00
179.3	0.00000e+00	0.00000e+00	0.00000e+00
179.4	0.00000e+00	0.00000e+00	0.00000e+00
179.5	0.00000e+00	0.00000e+00	0.00000e+00
179.6	0.00000e+00	0.00000e+00	0.00000e+00
179.7	0.00000e+00	0.00000e+00	0.00000e+00
179.8	0.00000e+00	0.00000e+00	0.00000e+00
179.9	0.00000e+00	0.00000e+00	0.00000e+00
180.0	0.00000e+00	0.00000e+00	0.00000e+00
180.1	0.00000e+00	0.00000e+00	0.00000e+00
180.2	0.00000e+00	0.00000e+00	0.00000e+00
180.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
180.4	0.00000e+00	0.00000e+00	0.00000e+00
180.5	0.00000e+00	0.00000e+00	0.00000e+00
180.6	0.00000e+00	0.00000e+00	0.00000e+00
180.7	0.00000e+00	0.00000e+00	0.00000e+00
180.8	0.00000e+00	0.00000e+00	0.00000e+00
180.9	0.00000e+00	0.00000e+00	0.00000e+00
181.0	0.00000e+00	0.00000e+00	0.00000e+00
181.1	0.00000e+00	0.00000e+00	0.00000e+00
181.2	0.00000e+00	0.00000e+00	0.00000e+00
181.3	0.00000e+00	0.00000e+00	0.00000e+00
181.4	0.00000e+00	0.00000e+00	0.00000e+00
181.5	0.00000e+00	0.00000e+00	0.00000e+00
181.6	0.00000e+00	0.00000e+00	0.00000e+00
181.7	0.00000e+00	0.00000e+00	0.00000e+00
181.8	0.00000e+00	0.00000e+00	0.00000e+00
181.9	0.00000e+00	0.00000e+00	0.00000e+00
182.0	0.00000e+00	0.00000e+00	0.00000e+00
182.1	0.00000e+00	0.00000e+00	0.00000e+00
182.2	0.00000e+00	0.00000e+00	0.00000e+00
182.3	0.00000e+00	0.00000e+00	0.00000e+00
182.4	0.00000e+00	0.00000e+00	0.00000e+00
182.5	0.00000e+00	0.00000e+00	0.00000e+00
182.6	0.00000e+00	0.00000e+00	0.00000e+00
182.7	0.00000e+00	0.00000e+00	0.00000e+00
182.8	0.00000e+00	0.00000e+00	0.00000e+00
182.9	0.00000e+00	0.00000e+00	0.00000e+00
183.0	0.00000e+00	0.00000e+00	0.00000e+00
183.1	0.00000e+00	0.00000e+00	0.00000e+00
183.2	0.00000e+00	0.00000e+00	0.00000e+00
183.3	0.00000e+00	0.00000e+00	0.00000e+00
183.4	0.00000e+00	0.00000e+00	0.00000e+00
183.5	0.00000e+00	0.00000e+00	0.00000e+00
183.6	0.00000e+00	0.00000e+00	0.00000e+00
183.7	0.00000e+00	0.00000e+00	0.00000e+00
183.8	0.00000e+00	0.00000e+00	0.00000e+00
183.9	0.00000e+00	0.00000e+00	0.00000e+00
184.0	0.00000e+00	0.00000e+00	0.00000e+00
184.1	0.00000e+00	0.00000e+00	0.00000e+00
184.2	0.00000e+00	0.00000e+00	0.00000e+00
184.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
184.4	0.00000e+00	0.00000e+00	0.00000e+00
184.5	0.00000e+00	0.00000e+00	0.00000e+00
184.6	0.00000e+00	0.00000e+00	0.00000e+00
184.7	0.00000e+00	0.00000e+00	0.00000e+00
184.8	0.00000e+00	0.00000e+00	0.00000e+00
184.9	0.00000e+00	0.00000e+00	0.00000e+00
185.0	0.00000e+00	0.00000e+00	0.00000e+00
185.1	0.00000e+00	0.00000e+00	0.00000e+00
185.2	0.00000e+00	0.00000e+00	0.00000e+00
185.3	0.00000e+00	0.00000e+00	0.00000e+00
185.4	0.00000e+00	0.00000e+00	0.00000e+00
185.5	0.00000e+00	0.00000e+00	0.00000e+00
185.6	0.00000e+00	0.00000e+00	0.00000e+00
185.7	0.00000e+00	0.00000e+00	0.00000e+00
185.8	0.00000e+00	0.00000e+00	0.00000e+00
185.9	0.00000e+00	0.00000e+00	0.00000e+00
186.0	0.00000e+00	0.00000e+00	0.00000e+00
186.1	0.00000e+00	0.00000e+00	0.00000e+00
186.2	0.00000e+00	0.00000e+00	0.00000e+00
186.3	0.00000e+00	0.00000e+00	0.00000e+00
186.4	0.00000e+00	0.00000e+00	0.00000e+00
186.5	0.00000e+00	0.00000e+00	0.00000e+00
186.6	0.00000e+00	0.00000e+00	0.00000e+00
186.7	0.00000e+00	0.00000e+00	0.00000e+00
186.8	0.00000e+00	0.00000e+00	0.00000e+00
186.9	0.00000e+00	0.00000e+00	0.00000e+00
187.0	0.00000e+00	0.00000e+00	0.00000e+00
187.1	0.00000e+00	0.00000e+00	0.00000e+00
187.2	0.00000e+00	0.00000e+00	0.00000e+00
187.3	0.00000e+00	0.00000e+00	0.00000e+00
187.4	0.00000e+00	0.00000e+00	0.00000e+00
187.5	0.00000e+00	0.00000e+00	0.00000e+00
187.6	0.00000e+00	0.00000e+00	0.00000e+00
187.7	0.00000e+00	0.00000e+00	0.00000e+00
187.8	0.00000e+00	0.00000e+00	0.00000e+00
187.9	0.00000e+00	0.00000e+00	0.00000e+00
188.0	0.00000e+00	0.00000e+00	0.00000e+00
188.1	0.00000e+00	0.00000e+00	0.00000e+00
188.2	0.00000e+00	0.00000e+00	0.00000e+00
188.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
188.4	0.00000e+00	0.00000e+00	0.00000e+00
188.5	0.00000e+00	0.00000e+00	0.00000e+00
188.6	0.00000e+00	0.00000e+00	0.00000e+00
188.7	0.00000e+00	0.00000e+00	0.00000e+00
188.8	0.00000e+00	0.00000e+00	0.00000e+00
188.9	0.00000e+00	0.00000e+00	0.00000e+00
189.0	0.00000e+00	0.00000e+00	0.00000e+00
189.1	0.00000e+00	0.00000e+00	0.00000e+00
189.2	0.00000e+00	0.00000e+00	0.00000e+00
189.3	0.00000e+00	0.00000e+00	0.00000e+00
189.4	0.00000e+00	0.00000e+00	0.00000e+00
189.5	0.00000e+00	0.00000e+00	0.00000e+00
189.6	0.00000e+00	0.00000e+00	0.00000e+00
189.7	0.00000e+00	0.00000e+00	0.00000e+00
189.8	0.00000e+00	0.00000e+00	0.00000e+00
189.9	0.00000e+00	0.00000e+00	0.00000e+00
190.0	0.00000e+00	0.00000e+00	0.00000e+00
190.1	0.00000e+00	0.00000e+00	0.00000e+00
190.2	0.00000e+00	0.00000e+00	0.00000e+00
190.3	0.00000e+00	0.00000e+00	0.00000e+00
190.4	0.00000e+00	0.00000e+00	0.00000e+00
190.5	0.00000e+00	0.00000e+00	0.00000e+00
190.6	0.00000e+00	0.00000e+00	0.00000e+00
190.7	0.00000e+00	0.00000e+00	0.00000e+00
190.8	0.00000e+00	0.00000e+00	0.00000e+00
190.9	0.00000e+00	0.00000e+00	0.00000e+00
191.0	0.00000e+00	0.00000e+00	0.00000e+00
191.1	0.00000e+00	0.00000e+00	0.00000e+00
191.2	0.00000e+00	0.00000e+00	0.00000e+00
191.3	0.00000e+00	0.00000e+00	0.00000e+00
191.4	0.00000e+00	0.00000e+00	0.00000e+00
191.5	0.00000e+00	0.00000e+00	0.00000e+00
191.6	0.00000e+00	0.00000e+00	0.00000e+00
191.7	0.00000e+00	0.00000e+00	0.00000e+00
191.8	0.00000e+00	0.00000e+00	0.00000e+00
191.9	0.00000e+00	0.00000e+00	0.00000e+00
192.0	0.00000e+00	0.00000e+00	0.00000e+00
192.1	0.00000e+00	0.00000e+00	0.00000e+00
192.2	0.00000e+00	0.00000e+00	0.00000e+00
192.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
192.4	0.00000e+00	0.00000e+00	0.00000e+00
192.5	0.00000e+00	0.00000e+00	0.00000e+00
192.6	0.00000e+00	0.00000e+00	0.00000e+00
192.7	0.00000e+00	0.00000e+00	0.00000e+00
192.8	0.00000e+00	0.00000e+00	0.00000e+00
192.9	0.00000e+00	0.00000e+00	0.00000e+00
193.0	0.00000e+00	0.00000e+00	0.00000e+00
193.1	0.00000e+00	0.00000e+00	0.00000e+00
193.2	0.00000e+00	0.00000e+00	0.00000e+00
193.3	0.00000e+00	0.00000e+00	0.00000e+00
193.4	0.00000e+00	0.00000e+00	0.00000e+00
193.5	0.00000e+00	0.00000e+00	0.00000e+00
193.6	0.00000e+00	0.00000e+00	0.00000e+00
193.7	0.00000e+00	0.00000e+00	0.00000e+00
193.8	0.00000e+00	0.00000e+00	0.00000e+00
193.9	0.00000e+00	0.00000e+00	0.00000e+00
194.0	0.00000e+00	0.00000e+00	0.00000e+00
194.1	0.00000e+00	0.00000e+00	0.00000e+00
194.2	0.00000e+00	0.00000e+00	0.00000e+00
194.3	0.00000e+00	0.00000e+00	0.00000e+00
194.4	0.00000e+00	0.00000e+00	0.00000e+00
194.5	0.00000e+00	0.00000e+00	0.00000e+00
194.6	0.00000e+00	0.00000e+00	0.00000e+00
194.7	0.00000e+00	0.00000e+00	0.00000e+00
194.8	0.00000e+00	0.00000e+00	0.00000e+00
194.9	0.00000e+00	0.00000e+00	0.00000e+00
195.0	0.00000e+00	0.00000e+00	0.00000e+00
195.1	0.00000e+00	0.00000e+00	0.00000e+00
195.2	0.00000e+00	0.00000e+00	0.00000e+00
195.3	0.00000e+00	0.00000e+00	0.00000e+00
195.4	0.00000e+00	0.00000e+00	0.00000e+00
195.5	0.00000e+00	0.00000e+00	0.00000e+00
195.6	0.00000e+00	0.00000e+00	0.00000e+00
195.7	0.00000e+00	0.00000e+00	0.00000e+00
195.8	0.00000e+00	0.00000e+00	0.00000e+00
195.9	0.00000e+00	0.00000e+00	0.00000e+00
196.0	0.00000e+00	0.00000e+00	0.00000e+00
196.1	0.00000e+00	0.00000e+00	0.00000e+00
196.2	0.00000e+00	0.00000e+00	0.00000e+00
196.3	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
196.4	0.00000e+00	0.00000e+00	0.00000e+00
196.5	0.00000e+00	0.00000e+00	0.00000e+00
196.6	0.00000e+00	0.00000e+00	0.00000e+00
196.7	0.00000e+00	0.00000e+00	0.00000e+00
196.8	0.00000e+00	0.00000e+00	0.00000e+00
196.9	0.00000e+00	0.00000e+00	0.00000e+00
197.0	0.00000e+00	0.00000e+00	0.00000e+00
197.1	0.00000e+00	0.00000e+00	0.00000e+00
197.2	0.00000e+00	0.00000e+00	0.00000e+00
197.3	0.00000e+00	0.00000e+00	0.00000e+00
197.4	0.00000e+00	0.00000e+00	0.00000e+00
197.5	0.00000e+00	0.00000e+00	0.00000e+00
197.6	0.00000e+00	0.00000e+00	0.00000e+00
197.7	0.00000e+00	0.00000e+00	0.00000e+00
197.8	0.00000e+00	0.00000e+00	0.00000e+00
197.9	0.00000e+00	0.00000e+00	0.00000e+00
198.0	0.00000e+00	0.00000e+00	0.00000e+00
198.1	0.00000e+00	0.00000e+00	0.00000e+00
198.2	0.00000e+00	0.00000e+00	0.00000e+00
198.3	0.00000e+00	0.00000e+00	0.00000e+00
198.4	0.00000e+00	0.00000e+00	0.00000e+00
198.5	0.00000e+00	0.00000e+00	0.00000e+00
198.6	0.00000e+00	0.00000e+00	0.00000e+00
198.7	0.00000e+00	0.00000e+00	0.00000e+00
198.8	0.00000e+00	0.00000e+00	0.00000e+00
198.9	0.00000e+00	0.00000e+00	0.00000e+00
199.0	0.00000e+00	0.00000e+00	0.00000e+00
199.1	0.00000e+00	0.00000e+00	0.00000e+00
199.2	0.00000e+00	0.00000e+00	0.00000e+00
199.3	0.00000e+00	0.00000e+00	0.00000e+00
199.4	0.00000e+00	0.00000e+00	0.00000e+00
199.5	0.00000e+00	0.00000e+00	0.00000e+00
199.6	0.00000e+00	0.00000e+00	0.00000e+00
199.7	0.00000e+00	0.00000e+00	0.00000e+00
199.8	0.00000e+00	0.00000e+00	0.00000e+00
199.9	0.00000e+00	0.00000e+00	0.00000e+00
200.0	0.00000e+00	0.00000e+00	0.00000e+00

Table B.7.5: Output for Problem 7.1-Ra222

x	$A(x)$	P_{v1}	P_{v2}
0.0	-8.20858e-22	0.00000e+00	0.00000e+00
0.1	6.26345e-06	6.68993e-06	6.68993e-06
0.2	1.85438e-06	2.12739e-06	2.12739e-06
0.3	5.49016e-07	2.12739e-06	2.12739e-06
0.4	1.62544e-07	2.15130e-07	2.15130e-07
0.5	4.81234e-08	6.84111e-08	6.84111e-08
0.6	1.42476e-08	6.84111e-08	6.84111e-08
0.7	4.21820e-09	6.84111e-08	6.84111e-08
0.8	1.24886e-09	2.19991e-09	2.19991e-09
0.9	3.69742e-10	6.99571e-10	6.99571e-10
1.0	1.09467e-10	2.22463e-10	2.22463e-10
1.1	3.24094e-11	7.07431e-11	7.07431e-11
1.2	9.59524e-12	7.07431e-11	7.07431e-11
1.3	2.84081e-12	7.15380e-12	7.15380e-12
1.4	8.41061e-13	7.15380e-12	7.15380e-12
1.5	2.49008e-13	7.23418e-13	7.23418e-13
1.6	7.37223e-14	2.30046e-13	2.30046e-13
1.7	2.18265e-14	2.30046e-13	2.30046e-13
1.8	6.46205e-15	2.32631e-14	2.32631e-14
1.9	1.91318e-15	2.32631e-14	2.32631e-14
2.0	5.66424e-16	2.35245e-15	2.35245e-15
2.1	1.67698e-16	7.48078e-16	7.48078e-16
2.2	4.96493e-17	2.37888e-16	2.37888e-16
2.3	1.46994e-17	2.37888e-16	2.37888e-16
2.4	4.35195e-18	2.37888e-16	2.37888e-16
2.5	1.28846e-18	7.64983e-18	7.64983e-18
2.6	3.81466e-19	2.43264e-18	2.43264e-18
2.7	1.12938e-19	7.73578e-19	7.73578e-19
2.8	3.34370e-20	7.73578e-19	7.73578e-19
2.9	9.89949e-21	7.73578e-19	7.73578e-19
3.0	2.93088e-21	2.48761e-20	2.48761e-20
3.1	8.67729e-22	7.91059e-21	7.91059e-21
3.2	2.56903e-22	2.51556e-21	2.51556e-21
3.3	7.60598e-23	2.51556e-21	2.51556e-21
3.4	2.25186e-23	2.51556e-21	2.51556e-21
3.5	6.66694e-24	8.08936e-23	8.08936e-23
3.6	1.97384e-24	2.57241e-23	2.57241e-23

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x	$A(x)$	P_{v1}	P_{v2}
3.7	5.84384e-25	8.18025e-24	8.18025e-24
3.8	1.73015e-25	8.18025e-24	8.18025e-24
3.9	5.12235e-26	8.18025e-24	8.18025e-24
4.0	1.51654e-26	2.63054e-25	2.63054e-25
4.1	4.48994e-27	2.63054e-25	2.63054e-25
4.2	1.32931e-27	2.66010e-26	2.66010e-26
4.3	3.93561e-28	8.45909e-27	8.45909e-27
4.4	1.16519e-28	2.68999e-27	2.68999e-27
4.5	3.44972e-29	8.55414e-28	8.55414e-28
4.6	1.02134e-29	8.55414e-28	8.55414e-28
4.7	3.02381e-30	8.65025e-29	8.65025e-29
4.8	8.95242e-31	8.65025e-29	8.65025e-29
4.9	2.65049e-31	8.74745e-30	8.74745e-30
5.0	7.84715e-32	2.78168e-30	2.78168e-30
5.1	2.32326e-32	2.78168e-30	2.78168e-30
5.2	6.87834e-33	2.81294e-31	2.81294e-31
5.3	2.03643e-33	2.81294e-31	2.81294e-31
5.4	6.02913e-34	2.84454e-32	2.84454e-32
5.5	1.78501e-34	9.04563e-33	9.04563e-33
5.6	5.28477e-35	9.04563e-33	9.04563e-33
5.7	1.56463e-35	9.14726e-34	9.14726e-34
5.8	4.63231e-36	9.14726e-34	9.14726e-34
5.9	1.37146e-36	9.25004e-35	9.25004e-35
6.0	4.06040e-37	2.94151e-35	2.94151e-35
6.1	1.20214e-37	2.94151e-35	2.94151e-35
6.2	3.55910e-38	2.97456e-36	2.97456e-36
6.3	1.05372e-38	2.97456e-36	2.97456e-36
6.4	3.11969e-39	3.00798e-37	3.00798e-37
6.5	9.23628e-40	9.56536e-38	9.56536e-38
6.6	2.73453e-40	9.56536e-38	9.56536e-38
6.7	8.09596e-41	9.67283e-39	9.67283e-39
6.8	2.39692e-41	9.67283e-39	9.67283e-39
6.9	7.09643e-42	9.78151e-40	9.78151e-40
7.0	2.10100e-42	3.11051e-40	3.11051e-40
7.1	6.22030e-43	3.11051e-40	3.11051e-40
7.2	1.84161e-43	3.14546e-41	3.14546e-41
7.3	5.45234e-44	3.14546e-41	3.14546e-41
7.4	1.61424e-44	3.18081e-42	3.18081e-42
7.5	4.77919e-45	1.01149e-42	1.01149e-42
7.6	1.41495e-45	1.01149e-42	1.01149e-42

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x	$A(x)$	P_{v1}	P_{v2}
7.7	4.18914e-46	1.02286e-43	1.02286e-43
7.8	1.24026e-46	1.02286e-43	1.02286e-43
7.9	3.67195e-47	1.03435e-44	1.03435e-44
8.0	1.08713e-47	3.28923e-45	3.28923e-45
8.1	3.21861e-48	1.04597e-45	1.04597e-45
8.2	9.52914e-49	1.04597e-45	1.04597e-45
8.3	2.82124e-49	1.05773e-46	1.05773e-46
8.4	8.35267e-50	3.36356e-47	3.36356e-47
8.5	2.47292e-50	1.06961e-47	1.06961e-47
8.6	7.32144e-51	3.40136e-48	3.40136e-48
8.7	2.16762e-51	3.40136e-48	3.40136e-48
8.8	6.41753e-52	3.43957e-49	3.43957e-49
8.9	1.90000e-52	1.09378e-49	1.09378e-49
9.0	5.62522e-53	3.47822e-50	3.47822e-50
9.1	1.66542e-53	1.10607e-50	1.10607e-50
9.2	4.93072e-54	1.10607e-50	1.10607e-50
9.3	1.45981e-54	1.11850e-51	1.11850e-51
9.4	4.32197e-55	3.55682e-52	3.55682e-52
9.5	1.27958e-55	1.13107e-52	1.13107e-52
9.6	3.78838e-56	1.13107e-52	1.13107e-52
9.7	1.12160e-56	1.13107e-52	1.13107e-52
9.8	3.32066e-57	3.63720e-54	3.63720e-54
9.9	9.83129e-58	1.15663e-54	1.15663e-54
10.0	2.91069e-58	3.67807e-55	3.67807e-55
10.1	8.61751e-59	3.67807e-55	3.67807e-55
10.2	2.55133e-59	3.67807e-55	3.67807e-55
10.3	7.55359e-60	1.18276e-56	1.18276e-56
10.4	2.23635e-60	3.76118e-57	3.76118e-57
10.5	6.62101e-61	1.19605e-57	1.19605e-57
10.6	1.96024e-61	1.19605e-57	1.19605e-57
10.7	5.80358e-62	1.19605e-57	1.19605e-57
10.8	1.71823e-62	3.84618e-59	3.84618e-59
10.9	5.08706e-63	1.22308e-59	1.22308e-59
11.0	1.50610e-63	3.88939e-60	3.88939e-60
11.1	4.45901e-64	3.88939e-60	3.88939e-60
11.2	1.32015e-64	3.88939e-60	3.88939e-60
11.3	3.90850e-65	1.25072e-61	1.25072e-61
11.4	1.15717e-65	3.97729e-62	3.97729e-62
11.5	3.42595e-66	1.26477e-62	1.26477e-62
11.6	1.01430e-66	1.26477e-62	1.26477e-62

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x	$A(x)$	P_{v1}	P_{v2}
11.7	3.00298e-67	1.26477e-62	1.26477e-62
11.8	8.89075e-68	4.06716e-64	4.06716e-64
11.9	2.63223e-68	1.29336e-64	1.29336e-64
12.0	7.79309e-69	4.11286e-65	4.11286e-65
12.1	2.30725e-69	4.11286e-65	4.11286e-65
12.2	6.83095e-70	4.11286e-65	4.11286e-65
12.3	2.02240e-70	1.32258e-66	1.32258e-66
12.4	5.98760e-71	4.20581e-67	4.20581e-67
12.5	1.77271e-71	1.33744e-67	1.33744e-67
12.6	5.24836e-72	1.33744e-67	1.33744e-67
12.7	1.55385e-72	1.33744e-67	1.33744e-67
12.8	4.60040e-73	4.30085e-69	4.30085e-69
12.9	1.36201e-73	1.36767e-69	1.36767e-69
13.0	4.03243e-74	4.34917e-70	4.34917e-70
13.1	1.19386e-74	4.34917e-70	4.34917e-70
13.2	3.53458e-75	4.34917e-70	4.34917e-70
13.3	1.04646e-75	1.39857e-71	1.39857e-71
13.4	3.09820e-76	4.44745e-72	4.44745e-72
13.5	9.17265e-77	1.41429e-72	1.41429e-72
13.6	2.71569e-77	1.41429e-72	1.41429e-72
13.7	8.04019e-78	1.41429e-72	1.41429e-72
13.8	2.38041e-78	4.54796e-74	4.54796e-74
13.9	7.04754e-79	1.44625e-74	1.44625e-74
14.0	2.08652e-79	4.59906e-75	4.59906e-75
14.1	6.17745e-80	4.59906e-75	4.59906e-75
14.2	1.82892e-80	4.59906e-75	4.59906e-75
14.3	5.41477e-81	1.47893e-76	1.47893e-76
14.4	1.60312e-81	4.70299e-77	4.70299e-77
14.5	4.74626e-82	1.49555e-77	1.49555e-77
14.6	1.40520e-82	1.49555e-77	1.49555e-77
14.7	4.16029e-83	1.49555e-77	1.49555e-77
14.8	1.23171e-83	4.80927e-79	4.80927e-79
14.9	3.64665e-84	1.52934e-79	1.52934e-79
15.0	1.07964e-84	4.86330e-80	4.86330e-80
15.1	3.19643e-85	4.86330e-80	4.86330e-80
15.2	9.46349e-86	4.86330e-80	4.86330e-80
15.3	2.80180e-86	1.56390e-81	1.56390e-81
15.4	8.29512e-87	4.97320e-82	4.97320e-82
15.5	2.45589e-87	1.58148e-82	1.58148e-82
15.6	7.27100e-88	1.58148e-82	1.58148e-82

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x	$A(x)$	P_{v1}	P_{v2}
15.7	2.15268e-88	1.58148e-82	1.58148e-82
15.8	6.37332e-89	5.08559e-84	5.08559e-84
15.9	1.88691e-89	1.61721e-84	1.61721e-84
16.0	5.58646e-90	5.14273e-85	5.14273e-85
16.1	1.65395e-90	1.63538e-85	1.63538e-85
16.2	4.89675e-91	5.20051e-86	5.20051e-86
16.3	1.44975e-91	1.65376e-86	1.65376e-86
16.4	4.29220e-92	1.65376e-86	1.65376e-86
16.5	1.27077e-92	1.67234e-87	1.67234e-87
16.6	3.76228e-93	5.31803e-88	5.31803e-88
16.7	1.11388e-93	1.69113e-88	1.69113e-88
16.8	3.29779e-94	5.37779e-89	5.37779e-89
16.9	9.76356e-95	5.37779e-89	5.37779e-89
17.0	2.89064e-95	5.43821e-90	5.43821e-90
17.1	8.55814e-96	1.72935e-90	1.72935e-90
17.2	2.53376e-96	5.49931e-91	5.49931e-91
17.3	7.50155e-97	1.74878e-91	1.74878e-91
17.4	2.22094e-97	1.74878e-91	1.74878e-91
17.5	6.57540e-98	1.76843e-92	1.76843e-92
17.6	1.94674e-98	5.62359e-93	5.62359e-93
17.7	5.76360e-99	1.78830e-93	1.78830e-93
17.8	1.70639e-99	5.68677e-94	5.68677e-94
17.9	5.05202e-100	5.68677e-94	5.68677e-94
18.0	1.49572e-100	5.75067e-95	5.75067e-95
18.1	4.42829e-101	1.82871e-95	1.82871e-95
18.2	1.31106e-101	5.81528e-96	5.81528e-96
18.3	3.88157e-102	1.84926e-96	1.84926e-96
18.4	1.14919e-102	1.84926e-96	1.84926e-96
18.5	3.40235e-103	1.87003e-97	1.87003e-97
18.6	1.00731e-103	5.94670e-98	5.94670e-98
18.7	2.98229e-104	1.89105e-98	1.89105e-98
18.8	8.82950e-105	6.01351e-99	6.01351e-99
18.9	2.61410e-105	6.01351e-99	6.01351e-99
19.0	7.73940e-106	6.08108e-100	6.08108e-100
19.1	2.29136e-106	1.93378e-100	1.93378e-100
19.2	6.78389e-107	1.93378e-100	1.93378e-100
19.3	2.00847e-107	1.95551e-101	1.95551e-101
19.4	5.94635e-108	1.95551e-101	1.95551e-101
19.5	1.76050e-108	1.97748e-102	1.97748e-102
19.6	5.21221e-109	6.28837e-103	6.28837e-103

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x	$A(x)$	P_{v1}	P_{v2}
19.7	1.54315e-109	6.28837e-103	6.28837e-103
19.8	4.56870e-110	6.35903e-104	6.35903e-104
19.9	1.35263e-110	6.35903e-104	6.35903e-104
20.0	4.00465e-111	6.43048e-105	6.43048e-105
20.1	1.18563e-111	2.04489e-105	2.04489e-105
20.2	3.51023e-112	2.04489e-105	2.04489e-105
20.3	1.03925e-112	2.06786e-106	2.06786e-106
20.4	3.07685e-113	2.06786e-106	2.06786e-106
20.5	9.10946e-114	2.09110e-107	2.09110e-107
20.6	2.69698e-114	6.64968e-108	6.64968e-108
20.7	7.98480e-115	6.64968e-108	6.64968e-108
20.8	2.36401e-115	6.72439e-109	6.72439e-109
20.9	6.99899e-116	6.72439e-109	6.72439e-109
21.0	2.07215e-116	6.79995e-110	6.79995e-110
21.1	6.13489e-117	2.16238e-110	2.16238e-110
21.2	1.81632e-117	2.16238e-110	2.16238e-110
21.3	5.37747e-118	2.18668e-111	2.18668e-111
21.4	1.59208e-118	2.18668e-111	2.18668e-111
21.5	4.71357e-119	2.21124e-112	2.21124e-112
21.6	1.39552e-119	7.03174e-113	7.03174e-113
21.7	4.13162e-120	7.03174e-113	7.03174e-113
21.8	1.22323e-120	7.11075e-114	7.11075e-114
21.9	3.62153e-121	7.11075e-114	7.11075e-114
22.0	1.07221e-121	7.19065e-115	7.19065e-115
22.1	3.17441e-122	2.28662e-115	2.28662e-115
22.2	9.39830e-123	2.28662e-115	2.28662e-115
22.3	2.78250e-123	2.31231e-116	2.31231e-116
22.4	8.23798e-124	2.31231e-116	2.31231e-116
22.5	2.43897e-124	2.33829e-117	2.33829e-117
22.6	7.22091e-125	7.43576e-118	7.43576e-118
22.7	2.13785e-125	7.43576e-118	7.43576e-118
22.8	6.32941e-126	7.51931e-119	7.51931e-119
22.9	1.87391e-126	7.51931e-119	7.51931e-119
23.0	5.54798e-127	7.60379e-120	7.60379e-120
23.1	1.64256e-127	2.41800e-120	2.41800e-120
23.2	4.86302e-128	2.41800e-120	2.41800e-120
23.3	1.43977e-128	2.44517e-121	2.44517e-121
23.4	4.26263e-129	2.44517e-121	2.44517e-121
23.5	1.26201e-129	2.47264e-122	2.47264e-122
23.6	3.73636e-130	7.86299e-123	7.86299e-123

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x	$A(x)$	P_{v1}	P_{v2}
23.7	1.10620e-130	7.86299e-123	7.86299e-123
23.8	3.27507e-131	7.95134e-124	7.95134e-124
23.9	9.69630e-132	7.95134e-124	7.95134e-124
24.0	2.87072e-132	8.04068e-125	8.04068e-125
24.1	8.49918e-133	2.55693e-125	2.55693e-125
24.2	2.51630e-133	2.55693e-125	2.55693e-125
24.3	7.44987e-134	2.58566e-126	2.58566e-126
24.4	2.20564e-134	2.58566e-126	2.58566e-126
24.5	6.53010e-135	2.61471e-127	2.61471e-127
24.6	1.93333e-135	8.31477e-128	8.31477e-128
24.7	5.72389e-136	8.31477e-128	8.31477e-128
24.8	1.69464e-136	8.40819e-129	8.40819e-129
24.9	5.01721e-137	8.40819e-129	8.40819e-129
25.0	1.48542e-137	8.50267e-130	8.50267e-130
25.1	4.39779e-138	2.70384e-130	2.70384e-130
25.2	1.30203e-138	2.70384e-130	2.70384e-130
25.3	3.85483e-139	2.73422e-131	2.73422e-131
25.4	1.14128e-139	2.73422e-131	2.73422e-131
25.5	3.37891e-140	2.76494e-132	2.76494e-132
25.6	1.00037e-140	8.79250e-133	8.79250e-133
25.7	2.96175e-141	8.79250e-133	8.79250e-133
25.8	8.76867e-142	8.89130e-134	8.89130e-134
25.9	2.59609e-142	8.89130e-134	8.89130e-134
26.0	7.68609e-143	8.99120e-135	8.99120e-135
26.1	2.27557e-143	2.85919e-135	2.85919e-135
26.2	6.73716e-144	2.85919e-135	2.85919e-135
26.3	1.99463e-144	2.89132e-136	2.89132e-136
26.4	5.90538e-145	2.89132e-136	2.89132e-136
26.5	1.74837e-145	2.92381e-137	2.92381e-137
26.6	5.17630e-146	9.29769e-138	9.29769e-138
26.7	1.53252e-146	9.29769e-138	9.29769e-138
26.8	4.53723e-147	9.40216e-139	9.40216e-139
26.9	1.34331e-147	9.40216e-139	9.40216e-139
27.0	3.97706e-148	9.50780e-140	9.50780e-140
27.1	1.17746e-148	3.02347e-140	3.02347e-140
27.2	3.48605e-149	3.02347e-140	3.02347e-140
27.3	1.03209e-149	3.05744e-141	3.05744e-141
27.4	3.05566e-150	3.05744e-141	3.05744e-141
27.5	9.04670e-151	3.09180e-142	3.09180e-142
27.6	2.67840e-151	9.83190e-143	9.83190e-143

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x	$A(x)$	P_{v1}	P_{v2}
27.7	7.92979e-152	9.83190e-143	9.83190e-143
27.8	2.34773e-152	9.94237e-144	9.94237e-144
27.9	6.95077e-153	9.94237e-144	9.94237e-144
28.0	2.05787e-153	1.00541e-144	1.00541e-144
28.1	6.09263e-154	3.19719e-145	3.19719e-145
28.2	1.80381e-154	3.19719e-145	3.19719e-145
28.3	5.34043e-155	3.23311e-146	3.23311e-146
28.4	1.58111e-155	3.23311e-146	3.23311e-146
28.5	4.68109e-156	3.26944e-147	3.26944e-147
28.6	1.38590e-156	1.03968e-147	1.03968e-147
28.7	4.10316e-157	1.03968e-147	1.03968e-147
28.8	1.21480e-157	1.05136e-148	1.05136e-148
28.9	3.59658e-158	1.05136e-148	1.05136e-148
29.0	1.06482e-158	1.06317e-149	1.06317e-149
29.1	3.15255e-159	3.38089e-150	3.38089e-150
29.2	9.33355e-160	3.38089e-150	3.38089e-150
29.3	2.76333e-160	3.41888e-151	3.41888e-151
29.4	8.18123e-161	3.41888e-151	3.41888e-151
29.5	2.42217e-161	3.45729e-152	3.45729e-152
29.6	7.17117e-162	1.09942e-152	1.09942e-152
29.7	2.12312e-162	1.09942e-152	1.09942e-152
29.8	6.28581e-163	1.11177e-153	1.11177e-153
29.9	1.86100e-163	1.11177e-153	1.11177e-153
30.0	5.50976e-164	1.12426e-154	1.12426e-154
30.1	1.63124e-164	3.57514e-155	3.57514e-155
30.2	4.82952e-165	3.57514e-155	3.57514e-155
30.3	1.42985e-165	3.61531e-156	3.61531e-156
30.4	4.23326e-166	3.61531e-156	3.61531e-156
30.5	1.25332e-166	3.65593e-157	3.65593e-157
30.6	3.71062e-167	1.16258e-157	1.16258e-157
30.7	1.09858e-167	1.16258e-157	1.16258e-157
30.8	3.25250e-168	1.17565e-158	1.17565e-158
30.9	9.62950e-169	1.17565e-158	1.17565e-158
31.0	2.85095e-169	1.18886e-159	1.18886e-159
31.1	8.44063e-170	3.78056e-160	3.78056e-160
31.2	2.49897e-170	3.78056e-160	3.78056e-160
31.3	7.39855e-171	3.82303e-161	3.82303e-161
31.4	2.19044e-171	3.82303e-161	3.82303e-161
31.5	6.48512e-172	3.86599e-162	3.86599e-162
31.6	1.92001e-172	1.22938e-162	1.22938e-162

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x	$A(x)$	P_{v1}	P_{v2}
31.7	5.68446e-173	1.22938e-162	1.22938e-162
31.8	1.68296e-173	1.24320e-163	1.24320e-163
31.9	4.98265e-174	1.24320e-163	1.24320e-163
32.0	1.47518e-174	1.25716e-164	1.25716e-164
32.1	4.36749e-175	3.99777e-165	3.99777e-165
32.2	1.29306e-175	1.27129e-165	1.27129e-165
32.3	3.82828e-176	1.27129e-165	1.27129e-165
32.4	1.13341e-176	1.28557e-166	1.28557e-166
32.5	3.35563e-177	4.08811e-167	4.08811e-167
32.6	9.93482e-178	1.30002e-167	1.30002e-167
32.7	2.94134e-178	4.13405e-168	4.13405e-168
32.8	8.70826e-179	4.13405e-168	4.13405e-168
32.9	2.57820e-179	4.18050e-169	4.18050e-169
33.0	7.63313e-180	1.32940e-169	1.32940e-169
33.1	2.25990e-180	4.22747e-170	4.22747e-170
33.2	6.69074e-181	1.34433e-170	1.34433e-170
33.3	1.98089e-181	1.34433e-170	1.34433e-170
33.4	5.86470e-182	1.35944e-171	1.35944e-171
33.5	1.73633e-182	4.32300e-172	4.32300e-172
33.6	5.14064e-183	1.37471e-172	1.37471e-172
33.7	1.52196e-183	4.37157e-173	4.37157e-173
33.8	4.50597e-184	4.37157e-173	4.37157e-173
33.9	1.33406e-184	4.42069e-174	4.42069e-174
34.0	3.94966e-185	1.40578e-174	1.40578e-174
34.1	1.16935e-185	4.47036e-175	4.47036e-175
34.2	3.46203e-186	1.42157e-175	1.42157e-175
34.3	1.02498e-186	1.42157e-175	1.42157e-175
34.4	3.03461e-187	1.43755e-176	1.43755e-176
34.5	8.98438e-188	4.57138e-177	4.57138e-177
34.6	2.65995e-188	1.45370e-177	1.45370e-177
34.7	7.87516e-189	4.62275e-178	4.62275e-178
34.8	2.33155e-189	4.62275e-178	4.62275e-178
34.9	6.90289e-190	4.67469e-179	4.67469e-179
35.0	2.04370e-190	1.48655e-179	1.48655e-179
35.1	6.05065e-191	4.72721e-180	4.72721e-180
35.2	1.79138e-191	1.50325e-180	1.50325e-180
35.3	5.30363e-192	1.50325e-180	1.50325e-180
35.4	1.57022e-192	1.52014e-181	1.52014e-181
35.5	4.64884e-193	4.83404e-182	4.83404e-182
35.6	1.37636e-193	1.53722e-182	1.53722e-182

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x	$A(x)$	P_{v1}	P_{v2}
35.7	4.07489e-194	4.88835e-183	4.88835e-183
35.8	1.20643e-194	4.88835e-183	4.88835e-183
35.9	3.57180e-195	4.94328e-184	4.94328e-184
36.0	1.05748e-195	1.57196e-184	1.57196e-184
36.1	3.13083e-196	4.99882e-185	4.99882e-185
36.2	9.26925e-197	1.58962e-185	1.58962e-185
36.3	2.74429e-197	1.58962e-185	1.58962e-185
36.4	8.12486e-198	1.60748e-186	1.60748e-186
36.5	2.40548e-198	5.11178e-187	5.11178e-187
36.6	7.12176e-199	1.62554e-187	1.62554e-187
36.7	2.10850e-199	5.16922e-188	5.16922e-188
36.8	6.24250e-200	5.16922e-188	5.16922e-188
36.9	1.84818e-200	5.22730e-189	5.22730e-189
37.0	5.47180e-201	1.66228e-189	1.66228e-189
37.1	1.62000e-201	5.28603e-190	5.28603e-190
37.2	4.79625e-202	1.68096e-190	1.68096e-190
37.3	1.42000e-202	1.68096e-190	1.68096e-190
37.4	4.20410e-203	1.69984e-191	1.69984e-191
37.5	1.24468e-203	5.40549e-192	5.40549e-192
37.6	3.68506e-204	1.71894e-192	1.71894e-192
37.7	1.09101e-204	5.46622e-193	5.46622e-193
37.8	3.23010e-205	5.46622e-193	5.46622e-193
37.9	9.56316e-206	5.52764e-194	5.52764e-194
38.0	2.83131e-206	1.75779e-194	1.75779e-194
38.1	8.38248e-207	5.58975e-195	5.58975e-195
38.2	2.48175e-207	1.77754e-195	1.77754e-195
38.3	7.34758e-208	1.77754e-195	1.77754e-195
38.4	2.17535e-208	1.77754e-195	1.77754e-195
38.5	6.44044e-209	5.71607e-197	5.71607e-197
38.6	1.90678e-209	1.81771e-197	1.81771e-197
38.7	5.64530e-210	5.78029e-198	5.78029e-198
38.8	1.67137e-210	5.78029e-198	5.78029e-198
38.9	4.94832e-211	5.78029e-198	5.78029e-198
39.0	1.46502e-211	1.85878e-199	1.85878e-199
39.1	4.33740e-212	5.91091e-200	5.91091e-200
39.2	1.28415e-212	1.87967e-200	1.87967e-200
39.3	3.80190e-213	1.87967e-200	1.87967e-200
39.4	1.12561e-213	1.87967e-200	1.87967e-200
39.5	3.33252e-214	6.04449e-202	6.04449e-202
39.6	9.86638e-215	1.92214e-202	1.92214e-202

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x	$A(x)$	P_{v1}	P_{v2}
39.7	2.92108e-215	6.11240e-203	6.11240e-203
39.8	8.64827e-216	6.11240e-203	6.11240e-203
39.9	2.56044e-216	6.11240e-203	6.11240e-203
40.0	7.58055e-217	1.96558e-204	1.96558e-204
40.1	2.24433e-217	6.25053e-205	6.25053e-205
40.2	6.64465e-218	1.98767e-205	1.98767e-205
40.3	1.96724e-218	1.98767e-205	1.98767e-205
40.4	5.82430e-219	1.98767e-205	1.98767e-205
40.5	1.72436e-219	6.39178e-207	6.39178e-207
40.6	5.10522e-220	2.03258e-207	2.03258e-207
40.7	1.51147e-220	6.46360e-208	6.46360e-208
40.8	4.47493e-221	6.46360e-208	6.46360e-208
40.9	1.32487e-221	6.46360e-208	6.46360e-208
41.0	3.92245e-222	2.07852e-209	2.07852e-209
41.1	1.16130e-222	6.60966e-210	6.60966e-210
41.2	3.43818e-223	2.10187e-210	2.10187e-210
41.3	1.01792e-223	2.10187e-210	2.10187e-210
41.4	3.01370e-224	2.10187e-210	2.10187e-210
41.5	8.92249e-225	6.75903e-212	6.75903e-212
41.6	2.64163e-225	2.14937e-212	2.14937e-212
41.7	7.82091e-226	6.83497e-213	6.83497e-213
41.8	2.31549e-226	6.83497e-213	6.83497e-213
41.9	6.85533e-227	6.83497e-213	6.83497e-213
42.0	2.02962e-227	2.19794e-214	2.19794e-214
42.1	6.00897e-228	6.98943e-215	6.98943e-215
42.2	1.77904e-228	2.22263e-215	2.22263e-215
42.3	5.26710e-229	2.22263e-215	2.22263e-215
42.4	1.55940e-229	2.22263e-215	2.22263e-215
42.5	4.61682e-230	7.14738e-217	7.14738e-217
42.6	1.36687e-230	2.27286e-217	2.27286e-217
42.7	4.04682e-231	7.22769e-218	7.22769e-218
42.8	1.19812e-231	7.22769e-218	7.22769e-218
42.9	3.54720e-232	7.22769e-218	7.22769e-218
43.0	1.05020e-232	2.32422e-219	2.32422e-219
43.1	3.10926e-233	7.39102e-220	7.39102e-220
43.2	9.20540e-234	2.35034e-220	2.35034e-220
43.3	2.72539e-234	2.35034e-220	2.35034e-220
43.4	8.06889e-235	2.35034e-220	2.35034e-220
43.5	2.38891e-235	7.55804e-222	7.55804e-222
43.6	7.07270e-236	2.40345e-222	2.40345e-222

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x	$A(x)$	P_{v1}	P_{v2}
43.7	2.09397e-236	7.64296e-223	7.64296e-223
43.8	6.19950e-237	7.64296e-223	7.64296e-223
43.9	1.83545e-237	7.64296e-223	7.64296e-223
44.0	5.43410e-238	2.45776e-224	2.45776e-224
44.1	1.60884e-238	7.81568e-225	7.81568e-225
44.2	4.76321e-239	2.48538e-225	2.48538e-225
44.3	1.41021e-239	2.48538e-225	2.48538e-225
44.4	4.17514e-240	2.48538e-225	2.48538e-225
44.5	1.23611e-240	7.99230e-227	7.99230e-227
44.6	3.65967e-241	2.54154e-227	2.54154e-227
44.7	1.08350e-241	8.08210e-228	8.08210e-228
44.8	3.20785e-242	8.08210e-228	8.08210e-228
44.9	9.49728e-243	8.08210e-228	8.08210e-228
45.0	2.81180e-243	2.59898e-229	2.59898e-229
45.1	8.32474e-244	8.26474e-230	8.26474e-230
45.2	2.46466e-244	2.62818e-230	2.62818e-230
45.3	7.29696e-245	2.62818e-230	2.62818e-230
45.4	2.16037e-245	2.62818e-230	2.62818e-230
45.5	6.39607e-246	8.45150e-232	8.45150e-232
45.6	1.89365e-246	2.68757e-232	2.68757e-232
45.7	5.60641e-247	8.54646e-233	8.54646e-233
45.8	1.65986e-247	8.54646e-233	8.54646e-233
45.9	4.91423e-248	8.54646e-233	8.54646e-233
46.0	1.45493e-248	2.74831e-234	2.74831e-234
46.1	4.30752e-249	8.73960e-235	8.73960e-235
46.2	1.27530e-249	2.77919e-235	2.77919e-235
46.3	3.77571e-250	2.77919e-235	2.77919e-235
46.4	1.11785e-250	2.77919e-235	2.77919e-235
46.5	3.30956e-251	8.93709e-237	8.93709e-237
46.6	9.79841e-252	2.84199e-237	2.84199e-237
46.7	2.90096e-252	9.03751e-238	9.03751e-238
46.8	8.58869e-253	9.03751e-238	9.03751e-238
46.9	2.54280e-253	9.03751e-238	9.03751e-238
47.0	7.52833e-254	2.90621e-239	2.90621e-239
47.1	2.22887e-254	9.24174e-240	9.24174e-240
47.2	6.59887e-255	2.93887e-240	2.93887e-240
47.3	1.95369e-255	2.93887e-240	2.93887e-240
47.4	5.78417e-256	2.93887e-240	2.93887e-240
47.5	1.71249e-256	9.45058e-242	9.45058e-242
47.6	5.07005e-257	3.00528e-242	3.00528e-242

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x	$A(x)$	P_{v1}	P_{v2}
47.7	1.50106e-257	9.55677e-243	9.55677e-243
47.8	4.44410e-258	9.55677e-243	9.55677e-243
47.9	1.31574e-258	9.55677e-243	9.55677e-243
48.0	3.89543e-259	3.07319e-244	3.07319e-244
48.1	1.15330e-259	9.77273e-245	9.77273e-245
48.2	3.41450e-260	3.10772e-245	3.10772e-245
48.3	1.01091e-260	3.10772e-245	3.10772e-245
48.4	2.99294e-261	3.10772e-245	3.10772e-245
48.5	8.86102e-262	9.99358e-247	9.99358e-247
48.6	2.62343e-262	3.17795e-247	3.17795e-247
48.7	7.76703e-263	1.01059e-247	1.01059e-247
48.8	2.29954e-263	1.01059e-247	1.01059e-247
48.9	6.80811e-264	1.01059e-247	1.01059e-247
49.0	2.01564e-264	3.24977e-249	3.24977e-249
49.1	5.96757e-265	1.03342e-249	1.03342e-249
49.2	1.76678e-265	3.28628e-250	3.28628e-250
49.3	5.23081e-266	3.28628e-250	3.28628e-250
49.4	1.54866e-266	3.28628e-250	3.28628e-250
49.5	4.58501e-267	1.05678e-251	1.05678e-251
49.6	1.35746e-267	3.36054e-252	3.36054e-252
49.7	4.01894e-268	1.06865e-252	1.06865e-252
49.8	1.18986e-268	1.06865e-252	1.06865e-252
49.9	3.52276e-269	1.06865e-252	1.06865e-252
50.0	1.04296e-269	3.43649e-254	3.43649e-254
50.1	3.08784e-270	1.09280e-254	1.09280e-254
50.2	9.14198e-271	3.47510e-255	3.47510e-255
50.3	2.70661e-271	3.47510e-255	3.47510e-255
50.4	8.01330e-272	3.47510e-255	3.47510e-255
50.5	2.37245e-272	1.11750e-256	1.11750e-256
50.6	7.02398e-273	3.55363e-257	3.55363e-257
50.7	2.07955e-273	1.13005e-257	1.13005e-257
50.8	6.15679e-274	1.13005e-257	1.13005e-257
50.9	1.82280e-274	1.13005e-257	1.13005e-257
51.0	5.39667e-275	3.63393e-259	3.63393e-259
51.1	1.59776e-275	1.15559e-259	1.15559e-259
51.2	4.73039e-276	3.67476e-260	3.67476e-260
51.3	1.40050e-276	3.67476e-260	3.67476e-260
51.4	4.14637e-277	3.67476e-260	3.67476e-260
51.5	1.22759e-277	1.18170e-261	1.18170e-261
51.6	3.63446e-278	3.75781e-262	3.75781e-262

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x	$A(x)$	P_{v1}	P_{v2}
51.7	1.07603e-278	1.19498e-262	1.19498e-262
51.8	3.18575e-279	1.19498e-262	1.19498e-262
51.9	9.43185e-280	1.19498e-262	1.19498e-262
52.0	2.79243e-280	3.84273e-264	3.84273e-264
52.1	8.26739e-281	1.22198e-264	1.22198e-264
52.2	2.44768e-281	3.88590e-265	3.88590e-265
52.3	7.24669e-282	3.88590e-265	3.88590e-265
52.4	2.14548e-282	3.88590e-265	3.88590e-265
52.5	6.35201e-283	1.24960e-266	1.24960e-266
52.6	1.88060e-283	3.97372e-267	3.97372e-267
52.7	5.56778e-284	1.26364e-267	1.26364e-267
52.8	1.64842e-284	1.26364e-267	1.26364e-267
52.9	4.88038e-285	1.26364e-267	1.26364e-267
53.0	1.44491e-285	4.06351e-269	4.06351e-269
53.1	4.27784e-286	1.29219e-269	1.29219e-269
53.2	1.26652e-286	4.10917e-270	4.10917e-270
53.3	3.74970e-287	4.10917e-270	4.10917e-270
53.4	1.11015e-287	4.10917e-270	4.10917e-270
53.5	3.28676e-288	1.32140e-271	1.32140e-271
53.6	9.73091e-289	4.20203e-272	4.20203e-272
53.7	2.88097e-289	1.33624e-272	1.33624e-272
53.8	8.52952e-290	1.33624e-272	1.33624e-272
53.9	2.52529e-290	1.33624e-272	1.33624e-272
54.0	7.47646e-291	4.29699e-274	4.29699e-274
54.1	2.21351e-291	1.36644e-274	1.36644e-274
54.2	6.55341e-292	4.34527e-275	4.34527e-275
54.3	1.94023e-292	4.34527e-275	4.34527e-275
54.4	5.74432e-293	4.34527e-275	4.34527e-275
54.5	1.70069e-293	1.39732e-276	1.39732e-276
54.6	5.03512e-294	4.44346e-277	4.44346e-277
54.7	1.49072e-294	1.41302e-277	1.41302e-277
54.8	4.41348e-295	1.41302e-277	1.41302e-277
54.9	1.30667e-295	1.41302e-277	1.41302e-277
55.0	3.86859e-296	4.54388e-279	4.54388e-279
55.1	1.14535e-296	1.44495e-279	1.44495e-279
55.2	3.39097e-297	4.59493e-280	4.59493e-280
55.3	1.00395e-297	4.59493e-280	4.59493e-280
55.4	2.97232e-298	4.59493e-280	4.59493e-280
55.5	8.79997e-299	1.47760e-281	1.47760e-281
55.6	2.60536e-299	4.69877e-282	4.69877e-282

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x	$A(x)$	P_{v1}	P_{v2}
55.7	7.71352e-300	1.49421e-282	1.49421e-282
55.8	2.28370e-300	1.49421e-282	1.49421e-282
55.9	6.76121e-301	1.49421e-282	1.49421e-282
56.0	2.00175e-301	4.80495e-284	4.80495e-284
56.1	5.92646e-302	1.52797e-284	1.52797e-284
56.2	1.75461e-302	4.85894e-285	4.85894e-285
56.3	5.19478e-303	4.85894e-285	4.85894e-285
56.4	1.53799e-303	4.85894e-285	4.85894e-285
56.5	4.55343e-304	1.56250e-286	1.56250e-286
56.6	1.34811e-304	4.96874e-287	4.96874e-287
56.7	3.99126e-305	1.58006e-287	1.58006e-287
56.8	1.18167e-305	1.58006e-287	1.58006e-287
56.9	3.49849e-306	1.58006e-287	1.58006e-287
57.0	1.03578e-306	5.08102e-289	5.08102e-289
57.1	3.06657e-307	1.61576e-289	1.61576e-289
57.2	9.07900e-308	5.13811e-290	5.13811e-290
57.3	2.68797e-308	5.13811e-290	5.13811e-290
57.4	7.95810e-309	5.13811e-290	5.13811e-290
57.5	2.35611e-309	1.65228e-291	1.65228e-291
57.6	6.97559e-310	5.25423e-292	5.25423e-292
57.7	2.06522e-310	1.67084e-292	1.67084e-292
57.8	6.11438e-311	1.67084e-292	1.67084e-292
57.9	1.81025e-311	1.67084e-292	1.67084e-292
58.0	5.35949e-312	5.37296e-294	5.37296e-294
58.1	1.58675e-312	1.70860e-294	1.70860e-294
58.2	4.69780e-313	5.43333e-295	5.43333e-295
58.3	1.39085e-313	5.43333e-295	5.43333e-295
58.4	4.11779e-314	5.43333e-295	5.43333e-295
58.5	1.21914e-314	1.74721e-296	1.74721e-296
58.6	3.60906e-315	5.55611e-297	5.55611e-297
58.7	1.06866e-315	1.76684e-297	1.76684e-297
58.8	3.16295e-316	1.76684e-297	1.76684e-297
58.9	9.39562e-317	1.76684e-297	1.76684e-297
59.0	2.79717e-317	5.68167e-299	5.68167e-299
59.1	7.88945e-318	1.80677e-299	1.80677e-299
59.2	2.15167e-318	5.74551e-300	5.74551e-300
59.3	7.17225e-319	5.74551e-300	5.74551e-300
59.4	0.00000e+00	5.74551e-300	5.74551e-300
59.5	0.00000e+00	1.00000e-301	1.00000e-301
59.6	0.00000e+00	5.00000e-302	5.00000e-302

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x	$A(x)$	P_{v1}	P_{v2}
59.7	0.00000e+00	1.00000e-302	1.00000e-302
59.8	0.00000e+00	1.00000e-302	1.00000e-302
59.9	0.00000e+00	1.00000e-302	1.00000e-302
60.0	0.00000e+00	6.00000e-304	6.00000e-304
60.1	0.00000e+00	1.00000e-304	1.00000e-304
60.2	0.00000e+00	6.00000e-305	6.00000e-305
60.3	0.00000e+00	6.00000e-305	6.00000e-305
60.4	0.00000e+00	6.00000e-305	6.00000e-305
60.5	0.00000e+00	1.00000e-306	1.00000e-306
60.6	0.00000e+00	6.00000e-307	6.00000e-307
60.7	0.00000e+00	1.00000e-307	1.00000e-307
60.8	0.00000e+00	1.00000e-307	1.00000e-307
60.9	0.00000e+00	1.00000e-307	1.00000e-307
61.0	0.00000e+00	0.00000e+00	0.00000e+00
61.1	0.00000e+00	0.00000e+00	0.00000e+00
61.2	0.00000e+00	0.00000e+00	0.00000e+00
61.3	0.00000e+00	0.00000e+00	0.00000e+00
61.4	0.00000e+00	0.00000e+00	0.00000e+00
61.5	0.00000e+00	0.00000e+00	0.00000e+00
61.6	0.00000e+00	0.00000e+00	0.00000e+00
61.7	0.00000e+00	0.00000e+00	0.00000e+00
61.8	0.00000e+00	0.00000e+00	0.00000e+00
61.9	0.00000e+00	0.00000e+00	0.00000e+00
62.0	0.00000e+00	0.00000e+00	0.00000e+00
62.1	0.00000e+00	0.00000e+00	0.00000e+00
62.2	0.00000e+00	0.00000e+00	0.00000e+00
62.3	0.00000e+00	0.00000e+00	0.00000e+00
62.4	0.00000e+00	0.00000e+00	0.00000e+00
62.5	0.00000e+00	0.00000e+00	0.00000e+00
62.6	0.00000e+00	0.00000e+00	0.00000e+00
62.7	0.00000e+00	0.00000e+00	0.00000e+00
62.8	0.00000e+00	0.00000e+00	0.00000e+00
62.9	0.00000e+00	0.00000e+00	0.00000e+00
63.0	0.00000e+00	0.00000e+00	0.00000e+00
63.1	0.00000e+00	0.00000e+00	0.00000e+00
63.2	0.00000e+00	0.00000e+00	0.00000e+00
63.3	0.00000e+00	0.00000e+00	0.00000e+00
63.4	0.00000e+00	0.00000e+00	0.00000e+00
63.5	0.00000e+00	0.00000e+00	0.00000e+00
63.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
63.7	0.00000e+00	0.00000e+00	0.00000e+00
63.8	0.00000e+00	0.00000e+00	0.00000e+00
63.9	0.00000e+00	0.00000e+00	0.00000e+00
64.0	0.00000e+00	0.00000e+00	0.00000e+00
64.1	0.00000e+00	0.00000e+00	0.00000e+00
64.2	0.00000e+00	0.00000e+00	0.00000e+00
64.3	0.00000e+00	0.00000e+00	0.00000e+00
64.4	0.00000e+00	0.00000e+00	0.00000e+00
64.5	0.00000e+00	0.00000e+00	0.00000e+00
64.6	0.00000e+00	0.00000e+00	0.00000e+00
64.7	0.00000e+00	0.00000e+00	0.00000e+00
64.8	0.00000e+00	0.00000e+00	0.00000e+00
64.9	0.00000e+00	0.00000e+00	0.00000e+00
65.0	0.00000e+00	0.00000e+00	0.00000e+00
65.1	0.00000e+00	0.00000e+00	0.00000e+00
65.2	0.00000e+00	0.00000e+00	0.00000e+00
65.3	0.00000e+00	0.00000e+00	0.00000e+00
65.4	0.00000e+00	0.00000e+00	0.00000e+00
65.5	0.00000e+00	0.00000e+00	0.00000e+00
65.6	0.00000e+00	0.00000e+00	0.00000e+00
65.7	0.00000e+00	0.00000e+00	0.00000e+00
65.8	0.00000e+00	0.00000e+00	0.00000e+00
65.9	0.00000e+00	0.00000e+00	0.00000e+00
66.0	0.00000e+00	0.00000e+00	0.00000e+00
66.1	0.00000e+00	0.00000e+00	0.00000e+00
66.2	0.00000e+00	0.00000e+00	0.00000e+00
66.3	0.00000e+00	0.00000e+00	0.00000e+00
66.4	0.00000e+00	0.00000e+00	0.00000e+00
66.5	0.00000e+00	0.00000e+00	0.00000e+00
66.6	0.00000e+00	0.00000e+00	0.00000e+00
66.7	0.00000e+00	0.00000e+00	0.00000e+00
66.8	0.00000e+00	0.00000e+00	0.00000e+00
66.9	0.00000e+00	0.00000e+00	0.00000e+00
67.0	0.00000e+00	0.00000e+00	0.00000e+00
67.1	0.00000e+00	0.00000e+00	0.00000e+00
67.2	0.00000e+00	0.00000e+00	0.00000e+00
67.3	0.00000e+00	0.00000e+00	0.00000e+00
67.4	0.00000e+00	0.00000e+00	0.00000e+00
67.5	0.00000e+00	0.00000e+00	0.00000e+00
67.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
67.7	0.00000e+00	0.00000e+00	0.00000e+00
67.8	0.00000e+00	0.00000e+00	0.00000e+00
67.9	0.00000e+00	0.00000e+00	0.00000e+00
68.0	0.00000e+00	0.00000e+00	0.00000e+00
68.1	0.00000e+00	0.00000e+00	0.00000e+00
68.2	0.00000e+00	0.00000e+00	0.00000e+00
68.3	0.00000e+00	0.00000e+00	0.00000e+00
68.4	0.00000e+00	0.00000e+00	0.00000e+00
68.5	0.00000e+00	0.00000e+00	0.00000e+00
68.6	0.00000e+00	0.00000e+00	0.00000e+00
68.7	0.00000e+00	0.00000e+00	0.00000e+00
68.8	0.00000e+00	0.00000e+00	0.00000e+00
68.9	0.00000e+00	0.00000e+00	0.00000e+00
69.0	0.00000e+00	0.00000e+00	0.00000e+00
69.1	0.00000e+00	0.00000e+00	0.00000e+00
69.2	0.00000e+00	0.00000e+00	0.00000e+00
69.3	0.00000e+00	0.00000e+00	0.00000e+00
69.4	0.00000e+00	0.00000e+00	0.00000e+00
69.5	0.00000e+00	0.00000e+00	0.00000e+00
69.6	0.00000e+00	0.00000e+00	0.00000e+00
69.7	0.00000e+00	0.00000e+00	0.00000e+00
69.8	0.00000e+00	0.00000e+00	0.00000e+00
69.9	0.00000e+00	0.00000e+00	0.00000e+00
70.0	0.00000e+00	0.00000e+00	0.00000e+00
70.1	0.00000e+00	0.00000e+00	0.00000e+00
70.2	0.00000e+00	0.00000e+00	0.00000e+00
70.3	0.00000e+00	0.00000e+00	0.00000e+00
70.4	0.00000e+00	0.00000e+00	0.00000e+00
70.5	0.00000e+00	0.00000e+00	0.00000e+00
70.6	0.00000e+00	0.00000e+00	0.00000e+00
70.7	0.00000e+00	0.00000e+00	0.00000e+00
70.8	0.00000e+00	0.00000e+00	0.00000e+00
70.9	0.00000e+00	0.00000e+00	0.00000e+00
71.0	0.00000e+00	0.00000e+00	0.00000e+00
71.1	0.00000e+00	0.00000e+00	0.00000e+00
71.2	0.00000e+00	0.00000e+00	0.00000e+00
71.3	0.00000e+00	0.00000e+00	0.00000e+00
71.4	0.00000e+00	0.00000e+00	0.00000e+00
71.5	0.00000e+00	0.00000e+00	0.00000e+00
71.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
71.7	0.00000e+00	0.00000e+00	0.00000e+00
71.8	0.00000e+00	0.00000e+00	0.00000e+00
71.9	0.00000e+00	0.00000e+00	0.00000e+00
72.0	0.00000e+00	0.00000e+00	0.00000e+00
72.1	0.00000e+00	0.00000e+00	0.00000e+00
72.2	0.00000e+00	0.00000e+00	0.00000e+00
72.3	0.00000e+00	0.00000e+00	0.00000e+00
72.4	0.00000e+00	0.00000e+00	0.00000e+00
72.5	0.00000e+00	0.00000e+00	0.00000e+00
72.6	0.00000e+00	0.00000e+00	0.00000e+00
72.7	0.00000e+00	0.00000e+00	0.00000e+00
72.8	0.00000e+00	0.00000e+00	0.00000e+00
72.9	0.00000e+00	0.00000e+00	0.00000e+00
73.0	0.00000e+00	0.00000e+00	0.00000e+00
73.1	0.00000e+00	0.00000e+00	0.00000e+00
73.2	0.00000e+00	0.00000e+00	0.00000e+00
73.3	0.00000e+00	0.00000e+00	0.00000e+00
73.4	0.00000e+00	0.00000e+00	0.00000e+00
73.5	0.00000e+00	0.00000e+00	0.00000e+00
73.6	0.00000e+00	0.00000e+00	0.00000e+00
73.7	0.00000e+00	0.00000e+00	0.00000e+00
73.8	0.00000e+00	0.00000e+00	0.00000e+00
73.9	0.00000e+00	0.00000e+00	0.00000e+00
74.0	0.00000e+00	0.00000e+00	0.00000e+00
74.1	0.00000e+00	0.00000e+00	0.00000e+00
74.2	0.00000e+00	0.00000e+00	0.00000e+00
74.3	0.00000e+00	0.00000e+00	0.00000e+00
74.4	0.00000e+00	0.00000e+00	0.00000e+00
74.5	0.00000e+00	0.00000e+00	0.00000e+00
74.6	0.00000e+00	0.00000e+00	0.00000e+00
74.7	0.00000e+00	0.00000e+00	0.00000e+00
74.8	0.00000e+00	0.00000e+00	0.00000e+00
74.9	0.00000e+00	0.00000e+00	0.00000e+00
75.0	0.00000e+00	0.00000e+00	0.00000e+00
75.1	0.00000e+00	0.00000e+00	0.00000e+00
75.2	0.00000e+00	0.00000e+00	0.00000e+00
75.3	0.00000e+00	0.00000e+00	0.00000e+00
75.4	0.00000e+00	0.00000e+00	0.00000e+00
75.5	0.00000e+00	0.00000e+00	0.00000e+00
75.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
75.7	0.00000e+00	0.00000e+00	0.00000e+00
75.8	0.00000e+00	0.00000e+00	0.00000e+00
75.9	0.00000e+00	0.00000e+00	0.00000e+00
76.0	0.00000e+00	0.00000e+00	0.00000e+00
76.1	0.00000e+00	0.00000e+00	0.00000e+00
76.2	0.00000e+00	0.00000e+00	0.00000e+00
76.3	0.00000e+00	0.00000e+00	0.00000e+00
76.4	0.00000e+00	0.00000e+00	0.00000e+00
76.5	0.00000e+00	0.00000e+00	0.00000e+00
76.6	0.00000e+00	0.00000e+00	0.00000e+00
76.7	0.00000e+00	0.00000e+00	0.00000e+00
76.8	0.00000e+00	0.00000e+00	0.00000e+00
76.9	0.00000e+00	0.00000e+00	0.00000e+00
77.0	0.00000e+00	0.00000e+00	0.00000e+00
77.1	0.00000e+00	0.00000e+00	0.00000e+00
77.2	0.00000e+00	0.00000e+00	0.00000e+00
77.3	0.00000e+00	0.00000e+00	0.00000e+00
77.4	0.00000e+00	0.00000e+00	0.00000e+00
77.5	0.00000e+00	0.00000e+00	0.00000e+00
77.6	0.00000e+00	0.00000e+00	0.00000e+00
77.7	0.00000e+00	0.00000e+00	0.00000e+00
77.8	0.00000e+00	0.00000e+00	0.00000e+00
77.9	0.00000e+00	0.00000e+00	0.00000e+00
78.0	0.00000e+00	0.00000e+00	0.00000e+00
78.1	0.00000e+00	0.00000e+00	0.00000e+00
78.2	0.00000e+00	0.00000e+00	0.00000e+00
78.3	0.00000e+00	0.00000e+00	0.00000e+00
78.4	0.00000e+00	0.00000e+00	0.00000e+00
78.5	0.00000e+00	0.00000e+00	0.00000e+00
78.6	0.00000e+00	0.00000e+00	0.00000e+00
78.7	0.00000e+00	0.00000e+00	0.00000e+00
78.8	0.00000e+00	0.00000e+00	0.00000e+00
78.9	0.00000e+00	0.00000e+00	0.00000e+00
79.0	0.00000e+00	0.00000e+00	0.00000e+00
79.1	0.00000e+00	0.00000e+00	0.00000e+00
79.2	0.00000e+00	0.00000e+00	0.00000e+00
79.3	0.00000e+00	0.00000e+00	0.00000e+00
79.4	0.00000e+00	0.00000e+00	0.00000e+00
79.5	0.00000e+00	0.00000e+00	0.00000e+00
79.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
79.7	0.00000e+00	0.00000e+00	0.00000e+00
79.8	0.00000e+00	0.00000e+00	0.00000e+00
79.9	0.00000e+00	0.00000e+00	0.00000e+00
80.0	0.00000e+00	0.00000e+00	0.00000e+00
80.1	0.00000e+00	0.00000e+00	0.00000e+00
80.2	0.00000e+00	0.00000e+00	0.00000e+00
80.3	0.00000e+00	0.00000e+00	0.00000e+00
80.4	0.00000e+00	0.00000e+00	0.00000e+00
80.5	0.00000e+00	0.00000e+00	0.00000e+00
80.6	0.00000e+00	0.00000e+00	0.00000e+00
80.7	0.00000e+00	0.00000e+00	0.00000e+00
80.8	0.00000e+00	0.00000e+00	0.00000e+00
80.9	0.00000e+00	0.00000e+00	0.00000e+00
81.0	0.00000e+00	0.00000e+00	0.00000e+00
81.1	0.00000e+00	0.00000e+00	0.00000e+00
81.2	0.00000e+00	0.00000e+00	0.00000e+00
81.3	0.00000e+00	0.00000e+00	0.00000e+00
81.4	0.00000e+00	0.00000e+00	0.00000e+00
81.5	0.00000e+00	0.00000e+00	0.00000e+00
81.6	0.00000e+00	0.00000e+00	0.00000e+00
81.7	0.00000e+00	0.00000e+00	0.00000e+00
81.8	0.00000e+00	0.00000e+00	0.00000e+00
81.9	0.00000e+00	0.00000e+00	0.00000e+00
82.0	0.00000e+00	0.00000e+00	0.00000e+00
82.1	0.00000e+00	0.00000e+00	0.00000e+00
82.2	0.00000e+00	0.00000e+00	0.00000e+00
82.3	0.00000e+00	0.00000e+00	0.00000e+00
82.4	0.00000e+00	0.00000e+00	0.00000e+00
82.5	0.00000e+00	0.00000e+00	0.00000e+00
82.6	0.00000e+00	0.00000e+00	0.00000e+00
82.7	0.00000e+00	0.00000e+00	0.00000e+00
82.8	0.00000e+00	0.00000e+00	0.00000e+00
82.9	0.00000e+00	0.00000e+00	0.00000e+00
83.0	0.00000e+00	0.00000e+00	0.00000e+00
83.1	0.00000e+00	0.00000e+00	0.00000e+00
83.2	0.00000e+00	0.00000e+00	0.00000e+00
83.3	0.00000e+00	0.00000e+00	0.00000e+00
83.4	0.00000e+00	0.00000e+00	0.00000e+00
83.5	0.00000e+00	0.00000e+00	0.00000e+00
83.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
83.7	0.00000e+00	0.00000e+00	0.00000e+00
83.8	0.00000e+00	0.00000e+00	0.00000e+00
83.9	0.00000e+00	0.00000e+00	0.00000e+00
84.0	0.00000e+00	0.00000e+00	0.00000e+00
84.1	0.00000e+00	0.00000e+00	0.00000e+00
84.2	0.00000e+00	0.00000e+00	0.00000e+00
84.3	0.00000e+00	0.00000e+00	0.00000e+00
84.4	0.00000e+00	0.00000e+00	0.00000e+00
84.5	0.00000e+00	0.00000e+00	0.00000e+00
84.6	0.00000e+00	0.00000e+00	0.00000e+00
84.7	0.00000e+00	0.00000e+00	0.00000e+00
84.8	0.00000e+00	0.00000e+00	0.00000e+00
84.9	0.00000e+00	0.00000e+00	0.00000e+00
85.0	0.00000e+00	0.00000e+00	0.00000e+00
85.1	0.00000e+00	0.00000e+00	0.00000e+00
85.2	0.00000e+00	0.00000e+00	0.00000e+00
85.3	0.00000e+00	0.00000e+00	0.00000e+00
85.4	0.00000e+00	0.00000e+00	0.00000e+00
85.5	0.00000e+00	0.00000e+00	0.00000e+00
85.6	0.00000e+00	0.00000e+00	0.00000e+00
85.7	0.00000e+00	0.00000e+00	0.00000e+00
85.8	0.00000e+00	0.00000e+00	0.00000e+00
85.9	0.00000e+00	0.00000e+00	0.00000e+00
86.0	0.00000e+00	0.00000e+00	0.00000e+00
86.1	0.00000e+00	0.00000e+00	0.00000e+00
86.2	0.00000e+00	0.00000e+00	0.00000e+00
86.3	0.00000e+00	0.00000e+00	0.00000e+00
86.4	0.00000e+00	0.00000e+00	0.00000e+00
86.5	0.00000e+00	0.00000e+00	0.00000e+00
86.6	0.00000e+00	0.00000e+00	0.00000e+00
86.7	0.00000e+00	0.00000e+00	0.00000e+00
86.8	0.00000e+00	0.00000e+00	0.00000e+00
86.9	0.00000e+00	0.00000e+00	0.00000e+00
87.0	0.00000e+00	0.00000e+00	0.00000e+00
87.1	0.00000e+00	0.00000e+00	0.00000e+00
87.2	0.00000e+00	0.00000e+00	0.00000e+00
87.3	0.00000e+00	0.00000e+00	0.00000e+00
87.4	0.00000e+00	0.00000e+00	0.00000e+00
87.5	0.00000e+00	0.00000e+00	0.00000e+00
87.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
87.7	0.00000e+00	0.00000e+00	0.00000e+00
87.8	0.00000e+00	0.00000e+00	0.00000e+00
87.9	0.00000e+00	0.00000e+00	0.00000e+00
88.0	0.00000e+00	0.00000e+00	0.00000e+00
88.1	0.00000e+00	0.00000e+00	0.00000e+00
88.2	0.00000e+00	0.00000e+00	0.00000e+00
88.3	0.00000e+00	0.00000e+00	0.00000e+00
88.4	0.00000e+00	0.00000e+00	0.00000e+00
88.5	0.00000e+00	0.00000e+00	0.00000e+00
88.6	0.00000e+00	0.00000e+00	0.00000e+00
88.7	0.00000e+00	0.00000e+00	0.00000e+00
88.8	0.00000e+00	0.00000e+00	0.00000e+00
88.9	0.00000e+00	0.00000e+00	0.00000e+00
89.0	0.00000e+00	0.00000e+00	0.00000e+00
89.1	0.00000e+00	0.00000e+00	0.00000e+00
89.2	0.00000e+00	0.00000e+00	0.00000e+00
89.3	0.00000e+00	0.00000e+00	0.00000e+00
89.4	0.00000e+00	0.00000e+00	0.00000e+00
89.5	0.00000e+00	0.00000e+00	0.00000e+00
89.6	0.00000e+00	0.00000e+00	0.00000e+00
89.7	0.00000e+00	0.00000e+00	0.00000e+00
89.8	0.00000e+00	0.00000e+00	0.00000e+00
89.9	0.00000e+00	0.00000e+00	0.00000e+00
90.0	0.00000e+00	0.00000e+00	0.00000e+00
90.1	0.00000e+00	0.00000e+00	0.00000e+00
90.2	0.00000e+00	0.00000e+00	0.00000e+00
90.3	0.00000e+00	0.00000e+00	0.00000e+00
90.4	0.00000e+00	0.00000e+00	0.00000e+00
90.5	0.00000e+00	0.00000e+00	0.00000e+00
90.6	0.00000e+00	0.00000e+00	0.00000e+00
90.7	0.00000e+00	0.00000e+00	0.00000e+00
90.8	0.00000e+00	0.00000e+00	0.00000e+00
90.9	0.00000e+00	0.00000e+00	0.00000e+00
91.0	0.00000e+00	0.00000e+00	0.00000e+00
91.1	0.00000e+00	0.00000e+00	0.00000e+00
91.2	0.00000e+00	0.00000e+00	0.00000e+00
91.3	0.00000e+00	0.00000e+00	0.00000e+00
91.4	0.00000e+00	0.00000e+00	0.00000e+00
91.5	0.00000e+00	0.00000e+00	0.00000e+00
91.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
91.7	0.00000e+00	0.00000e+00	0.00000e+00
91.8	0.00000e+00	0.00000e+00	0.00000e+00
91.9	0.00000e+00	0.00000e+00	0.00000e+00
92.0	0.00000e+00	0.00000e+00	0.00000e+00
92.1	0.00000e+00	0.00000e+00	0.00000e+00
92.2	0.00000e+00	0.00000e+00	0.00000e+00
92.3	0.00000e+00	0.00000e+00	0.00000e+00
92.4	0.00000e+00	0.00000e+00	0.00000e+00
92.5	0.00000e+00	0.00000e+00	0.00000e+00
92.6	0.00000e+00	0.00000e+00	0.00000e+00
92.7	0.00000e+00	0.00000e+00	0.00000e+00
92.8	0.00000e+00	0.00000e+00	0.00000e+00
92.9	0.00000e+00	0.00000e+00	0.00000e+00
93.0	0.00000e+00	0.00000e+00	0.00000e+00
93.1	0.00000e+00	0.00000e+00	0.00000e+00
93.2	0.00000e+00	0.00000e+00	0.00000e+00
93.3	0.00000e+00	0.00000e+00	0.00000e+00
93.4	0.00000e+00	0.00000e+00	0.00000e+00
93.5	0.00000e+00	0.00000e+00	0.00000e+00
93.6	0.00000e+00	0.00000e+00	0.00000e+00
93.7	0.00000e+00	0.00000e+00	0.00000e+00
93.8	0.00000e+00	0.00000e+00	0.00000e+00
93.9	0.00000e+00	0.00000e+00	0.00000e+00
94.0	0.00000e+00	0.00000e+00	0.00000e+00
94.1	0.00000e+00	0.00000e+00	0.00000e+00
94.2	0.00000e+00	0.00000e+00	0.00000e+00
94.3	0.00000e+00	0.00000e+00	0.00000e+00
94.4	0.00000e+00	0.00000e+00	0.00000e+00
94.5	0.00000e+00	0.00000e+00	0.00000e+00
94.6	0.00000e+00	0.00000e+00	0.00000e+00
94.7	0.00000e+00	0.00000e+00	0.00000e+00
94.8	0.00000e+00	0.00000e+00	0.00000e+00
94.9	0.00000e+00	0.00000e+00	0.00000e+00
95.0	0.00000e+00	0.00000e+00	0.00000e+00
95.1	0.00000e+00	0.00000e+00	0.00000e+00
95.2	0.00000e+00	0.00000e+00	0.00000e+00
95.3	0.00000e+00	0.00000e+00	0.00000e+00
95.4	0.00000e+00	0.00000e+00	0.00000e+00
95.5	0.00000e+00	0.00000e+00	0.00000e+00
95.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
95.7	0.00000e+00	0.00000e+00	0.00000e+00
95.8	0.00000e+00	0.00000e+00	0.00000e+00
95.9	0.00000e+00	0.00000e+00	0.00000e+00
96.0	0.00000e+00	0.00000e+00	0.00000e+00
96.1	0.00000e+00	0.00000e+00	0.00000e+00
96.2	0.00000e+00	0.00000e+00	0.00000e+00
96.3	0.00000e+00	0.00000e+00	0.00000e+00
96.4	0.00000e+00	0.00000e+00	0.00000e+00
96.5	0.00000e+00	0.00000e+00	0.00000e+00
96.6	0.00000e+00	0.00000e+00	0.00000e+00
96.7	0.00000e+00	0.00000e+00	0.00000e+00
96.8	0.00000e+00	0.00000e+00	0.00000e+00
96.9	0.00000e+00	0.00000e+00	0.00000e+00
97.0	0.00000e+00	0.00000e+00	0.00000e+00
97.1	0.00000e+00	0.00000e+00	0.00000e+00
97.2	0.00000e+00	0.00000e+00	0.00000e+00
97.3	0.00000e+00	0.00000e+00	0.00000e+00
97.4	0.00000e+00	0.00000e+00	0.00000e+00
97.5	0.00000e+00	0.00000e+00	0.00000e+00
97.6	0.00000e+00	0.00000e+00	0.00000e+00
97.7	0.00000e+00	0.00000e+00	0.00000e+00
97.8	0.00000e+00	0.00000e+00	0.00000e+00
97.9	0.00000e+00	0.00000e+00	0.00000e+00
98.0	0.00000e+00	0.00000e+00	0.00000e+00
98.1	0.00000e+00	0.00000e+00	0.00000e+00
98.2	0.00000e+00	0.00000e+00	0.00000e+00
98.3	0.00000e+00	0.00000e+00	0.00000e+00
98.4	0.00000e+00	0.00000e+00	0.00000e+00
98.5	0.00000e+00	0.00000e+00	0.00000e+00
98.6	0.00000e+00	0.00000e+00	0.00000e+00
98.7	0.00000e+00	0.00000e+00	0.00000e+00
98.8	0.00000e+00	0.00000e+00	0.00000e+00
98.9	0.00000e+00	0.00000e+00	0.00000e+00
99.0	0.00000e+00	0.00000e+00	0.00000e+00
99.1	0.00000e+00	0.00000e+00	0.00000e+00
99.2	0.00000e+00	0.00000e+00	0.00000e+00
99.3	0.00000e+00	0.00000e+00	0.00000e+00
99.4	0.00000e+00	0.00000e+00	0.00000e+00
99.5	0.00000e+00	0.00000e+00	0.00000e+00
99.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
99.7	0.00000e+00	0.00000e+00	0.00000e+00
99.8	0.00000e+00	0.00000e+00	0.00000e+00
99.9	0.00000e+00	0.00000e+00	0.00000e+00
100.0	0.00000e+00	0.00000e+00	0.00000e+00
100.1	0.00000e+00	0.00000e+00	0.00000e+00
100.2	0.00000e+00	0.00000e+00	0.00000e+00
100.3	0.00000e+00	0.00000e+00	0.00000e+00
100.4	0.00000e+00	0.00000e+00	0.00000e+00
100.5	0.00000e+00	0.00000e+00	0.00000e+00
100.6	0.00000e+00	0.00000e+00	0.00000e+00
100.7	0.00000e+00	0.00000e+00	0.00000e+00
100.8	0.00000e+00	0.00000e+00	0.00000e+00
100.9	0.00000e+00	0.00000e+00	0.00000e+00
101.0	0.00000e+00	0.00000e+00	0.00000e+00
101.1	0.00000e+00	0.00000e+00	0.00000e+00
101.2	0.00000e+00	0.00000e+00	0.00000e+00
101.3	0.00000e+00	0.00000e+00	0.00000e+00
101.4	0.00000e+00	0.00000e+00	0.00000e+00
101.5	0.00000e+00	0.00000e+00	0.00000e+00
101.6	0.00000e+00	0.00000e+00	0.00000e+00
101.7	0.00000e+00	0.00000e+00	0.00000e+00
101.8	0.00000e+00	0.00000e+00	0.00000e+00
101.9	0.00000e+00	0.00000e+00	0.00000e+00
102.0	0.00000e+00	0.00000e+00	0.00000e+00
102.1	0.00000e+00	0.00000e+00	0.00000e+00
102.2	0.00000e+00	0.00000e+00	0.00000e+00
102.3	0.00000e+00	0.00000e+00	0.00000e+00
102.4	0.00000e+00	0.00000e+00	0.00000e+00
102.5	0.00000e+00	0.00000e+00	0.00000e+00
102.6	0.00000e+00	0.00000e+00	0.00000e+00
102.7	0.00000e+00	0.00000e+00	0.00000e+00
102.8	0.00000e+00	0.00000e+00	0.00000e+00
102.9	0.00000e+00	0.00000e+00	0.00000e+00
103.0	0.00000e+00	0.00000e+00	0.00000e+00
103.1	0.00000e+00	0.00000e+00	0.00000e+00
103.2	0.00000e+00	0.00000e+00	0.00000e+00
103.3	0.00000e+00	0.00000e+00	0.00000e+00
103.4	0.00000e+00	0.00000e+00	0.00000e+00
103.5	0.00000e+00	0.00000e+00	0.00000e+00
103.6	0.00000e+00	0.00000e+00	0.00000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
103.7	0.00000e+00	0.00000e+00	0.00000e+00
103.8	0.00000e+00	0.00000e+00	0.00000e+00
103.9	0.00000e+00	0.00000e+00	0.00000e+00
104.0	0.00000e+00	0.00000e+00	0.00000e+00
104.1	0.00000e+00	0.00000e+00	0.00000e+00
104.2	0.00000e+00	0.00000e+00	0.00000e+00
104.3	0.00000e+00	0.00000e+00	0.00000e+00
104.4	0.00000e+00	0.00000e+00	0.00000e+00
104.5	0.00000e+00	0.00000e+00	0.00000e+00
104.6	0.00000e+00	0.00000e+00	0.00000e+00
104.7	0.00000e+00	0.00000e+00	0.00000e+00
104.8	0.00000e+00	0.00000e+00	0.00000e+00
104.9	0.00000e+00	0.00000e+00	0.00000e+00
105.0	0.00000e+00	0.00000e+00	0.00000e+00
105.1	0.00000e+00	0.00000e+00	0.00000e+00
105.2	0.00000e+00	0.00000e+00	0.00000e+00
105.3	0.00000e+00	0.00000e+00	0.00000e+00
105.4	0.00000e+00	0.00000e+00	0.00000e+00
105.5	0.00000e+00	0.00000e+00	0.00000e+00
105.6	0.00000e+00	0.00000e+00	0.00000e+00
105.7	0.00000e+00	0.00000e+00	0.00000e+00
105.8	0.00000e+00	0.00000e+00	0.00000e+00
105.9	0.00000e+00	0.00000e+00	0.00000e+00
106.0	0.00000e+00	0.00000e+00	0.00000e+00
106.1	0.00000e+00	0.00000e+00	0.00000e+00
106.2	0.00000e+00	0.00000e+00	0.00000e+00
106.3	0.00000e+00	0.00000e+00	0.00000e+00
106.4	0.00000e+00	0.00000e+00	0.00000e+00
106.5	0.00000e+00	0.00000e+00	0.00000e+00
106.6	0.00000e+00	0.00000e+00	0.00000e+00
106.7	0.00000e+00	0.00000e+00	0.00000e+00
106.8	0.00000e+00	0.00000e+00	0.00000e+00
106.9	0.00000e+00	0.00000e+00	0.00000e+00
107.0	0.00000e+00	0.00000e+00	0.00000e+00
107.1	0.00000e+00	0.00000e+00	0.00000e+00
107.2	0.00000e+00	0.00000e+00	0.00000e+00
107.3	0.00000e+00	0.00000e+00	0.00000e+00
107.4	0.00000e+00	0.00000e+00	0.00000e+00
107.5	0.00000e+00	0.00000e+00	0.00000e+00
107.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
107.7	0.00000e+00	0.00000e+00	0.00000e+00
107.8	0.00000e+00	0.00000e+00	0.00000e+00
107.9	0.00000e+00	0.00000e+00	0.00000e+00
108.0	0.00000e+00	0.00000e+00	0.00000e+00
108.1	0.00000e+00	0.00000e+00	0.00000e+00
108.2	0.00000e+00	0.00000e+00	0.00000e+00
108.3	0.00000e+00	0.00000e+00	0.00000e+00
108.4	0.00000e+00	0.00000e+00	0.00000e+00
108.5	0.00000e+00	0.00000e+00	0.00000e+00
108.6	0.00000e+00	0.00000e+00	0.00000e+00
108.7	0.00000e+00	0.00000e+00	0.00000e+00
108.8	0.00000e+00	0.00000e+00	0.00000e+00
108.9	0.00000e+00	0.00000e+00	0.00000e+00
109.0	0.00000e+00	0.00000e+00	0.00000e+00
109.1	0.00000e+00	0.00000e+00	0.00000e+00
109.2	0.00000e+00	0.00000e+00	0.00000e+00
109.3	0.00000e+00	0.00000e+00	0.00000e+00
109.4	0.00000e+00	0.00000e+00	0.00000e+00
109.5	0.00000e+00	0.00000e+00	0.00000e+00
109.6	0.00000e+00	0.00000e+00	0.00000e+00
109.7	0.00000e+00	0.00000e+00	0.00000e+00
109.8	0.00000e+00	0.00000e+00	0.00000e+00
109.9	0.00000e+00	0.00000e+00	0.00000e+00
110.0	0.00000e+00	0.00000e+00	0.00000e+00
110.1	0.00000e+00	0.00000e+00	0.00000e+00
110.2	0.00000e+00	0.00000e+00	0.00000e+00
110.3	0.00000e+00	0.00000e+00	0.00000e+00
110.4	0.00000e+00	0.00000e+00	0.00000e+00
110.5	0.00000e+00	0.00000e+00	0.00000e+00
110.6	0.00000e+00	0.00000e+00	0.00000e+00
110.7	0.00000e+00	0.00000e+00	0.00000e+00
110.8	0.00000e+00	0.00000e+00	0.00000e+00
110.9	0.00000e+00	0.00000e+00	0.00000e+00
111.0	0.00000e+00	0.00000e+00	0.00000e+00
111.1	0.00000e+00	0.00000e+00	0.00000e+00
111.2	0.00000e+00	0.00000e+00	0.00000e+00
111.3	0.00000e+00	0.00000e+00	0.00000e+00
111.4	0.00000e+00	0.00000e+00	0.00000e+00
111.5	0.00000e+00	0.00000e+00	0.00000e+00
111.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
111.7	0.00000e+00	0.00000e+00	0.00000e+00
111.8	0.00000e+00	0.00000e+00	0.00000e+00
111.9	0.00000e+00	0.00000e+00	0.00000e+00
112.0	0.00000e+00	0.00000e+00	0.00000e+00
112.1	0.00000e+00	0.00000e+00	0.00000e+00
112.2	0.00000e+00	0.00000e+00	0.00000e+00
112.3	0.00000e+00	0.00000e+00	0.00000e+00
112.4	0.00000e+00	0.00000e+00	0.00000e+00
112.5	0.00000e+00	0.00000e+00	0.00000e+00
112.6	0.00000e+00	0.00000e+00	0.00000e+00
112.7	0.00000e+00	0.00000e+00	0.00000e+00
112.8	0.00000e+00	0.00000e+00	0.00000e+00
112.9	0.00000e+00	0.00000e+00	0.00000e+00
113.0	0.00000e+00	0.00000e+00	0.00000e+00
113.1	0.00000e+00	0.00000e+00	0.00000e+00
113.2	0.00000e+00	0.00000e+00	0.00000e+00
113.3	0.00000e+00	0.00000e+00	0.00000e+00
113.4	0.00000e+00	0.00000e+00	0.00000e+00
113.5	0.00000e+00	0.00000e+00	0.00000e+00
113.6	0.00000e+00	0.00000e+00	0.00000e+00
113.7	0.00000e+00	0.00000e+00	0.00000e+00
113.8	0.00000e+00	0.00000e+00	0.00000e+00
113.9	0.00000e+00	0.00000e+00	0.00000e+00
114.0	0.00000e+00	0.00000e+00	0.00000e+00
114.1	0.00000e+00	0.00000e+00	0.00000e+00
114.2	0.00000e+00	0.00000e+00	0.00000e+00
114.3	0.00000e+00	0.00000e+00	0.00000e+00
114.4	0.00000e+00	0.00000e+00	0.00000e+00
114.5	0.00000e+00	0.00000e+00	0.00000e+00
114.6	0.00000e+00	0.00000e+00	0.00000e+00
114.7	0.00000e+00	0.00000e+00	0.00000e+00
114.8	0.00000e+00	0.00000e+00	0.00000e+00
114.9	0.00000e+00	0.00000e+00	0.00000e+00
115.0	0.00000e+00	0.00000e+00	0.00000e+00
115.1	0.00000e+00	0.00000e+00	0.00000e+00
115.2	0.00000e+00	0.00000e+00	0.00000e+00
115.3	0.00000e+00	0.00000e+00	0.00000e+00
115.4	0.00000e+00	0.00000e+00	0.00000e+00
115.5	0.00000e+00	0.00000e+00	0.00000e+00
115.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
115.7	0.00000e+00	0.00000e+00	0.00000e+00
115.8	0.00000e+00	0.00000e+00	0.00000e+00
115.9	0.00000e+00	0.00000e+00	0.00000e+00
116.0	0.00000e+00	0.00000e+00	0.00000e+00
116.1	0.00000e+00	0.00000e+00	0.00000e+00
116.2	0.00000e+00	0.00000e+00	0.00000e+00
116.3	0.00000e+00	0.00000e+00	0.00000e+00
116.4	0.00000e+00	0.00000e+00	0.00000e+00
116.5	0.00000e+00	0.00000e+00	0.00000e+00
116.6	0.00000e+00	0.00000e+00	0.00000e+00
116.7	0.00000e+00	0.00000e+00	0.00000e+00
116.8	0.00000e+00	0.00000e+00	0.00000e+00
116.9	0.00000e+00	0.00000e+00	0.00000e+00
117.0	0.00000e+00	0.00000e+00	0.00000e+00
117.1	0.00000e+00	0.00000e+00	0.00000e+00
117.2	0.00000e+00	0.00000e+00	0.00000e+00
117.3	0.00000e+00	0.00000e+00	0.00000e+00
117.4	0.00000e+00	0.00000e+00	0.00000e+00
117.5	0.00000e+00	0.00000e+00	0.00000e+00
117.6	0.00000e+00	0.00000e+00	0.00000e+00
117.7	0.00000e+00	0.00000e+00	0.00000e+00
117.8	0.00000e+00	0.00000e+00	0.00000e+00
117.9	0.00000e+00	0.00000e+00	0.00000e+00
118.0	0.00000e+00	0.00000e+00	0.00000e+00
118.1	0.00000e+00	0.00000e+00	0.00000e+00
118.2	0.00000e+00	0.00000e+00	0.00000e+00
118.3	0.00000e+00	0.00000e+00	0.00000e+00
118.4	0.00000e+00	0.00000e+00	0.00000e+00
118.5	0.00000e+00	0.00000e+00	0.00000e+00
118.6	0.00000e+00	0.00000e+00	0.00000e+00
118.7	0.00000e+00	0.00000e+00	0.00000e+00
118.8	0.00000e+00	0.00000e+00	0.00000e+00
118.9	0.00000e+00	0.00000e+00	0.00000e+00
119.0	0.00000e+00	0.00000e+00	0.00000e+00
119.1	0.00000e+00	0.00000e+00	0.00000e+00
119.2	0.00000e+00	0.00000e+00	0.00000e+00
119.3	0.00000e+00	0.00000e+00	0.00000e+00
119.4	0.00000e+00	0.00000e+00	0.00000e+00
119.5	0.00000e+00	0.00000e+00	0.00000e+00
119.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
119.7	0.00000e+00	0.00000e+00	0.00000e+00
119.8	0.00000e+00	0.00000e+00	0.00000e+00
119.9	0.00000e+00	0.00000e+00	0.00000e+00
120.0	0.00000e+00	0.00000e+00	0.00000e+00
120.1	0.00000e+00	0.00000e+00	0.00000e+00
120.2	0.00000e+00	0.00000e+00	0.00000e+00
120.3	0.00000e+00	0.00000e+00	0.00000e+00
120.4	0.00000e+00	0.00000e+00	0.00000e+00
120.5	0.00000e+00	0.00000e+00	0.00000e+00
120.6	0.00000e+00	0.00000e+00	0.00000e+00
120.7	0.00000e+00	0.00000e+00	0.00000e+00
120.8	0.00000e+00	0.00000e+00	0.00000e+00
120.9	0.00000e+00	0.00000e+00	0.00000e+00
121.0	0.00000e+00	0.00000e+00	0.00000e+00
121.1	0.00000e+00	0.00000e+00	0.00000e+00
121.2	0.00000e+00	0.00000e+00	0.00000e+00
121.3	0.00000e+00	0.00000e+00	0.00000e+00
121.4	0.00000e+00	0.00000e+00	0.00000e+00
121.5	0.00000e+00	0.00000e+00	0.00000e+00
121.6	0.00000e+00	0.00000e+00	0.00000e+00
121.7	0.00000e+00	0.00000e+00	0.00000e+00
121.8	0.00000e+00	0.00000e+00	0.00000e+00
121.9	0.00000e+00	0.00000e+00	0.00000e+00
122.0	0.00000e+00	0.00000e+00	0.00000e+00
122.1	0.00000e+00	0.00000e+00	0.00000e+00
122.2	0.00000e+00	0.00000e+00	0.00000e+00
122.3	0.00000e+00	0.00000e+00	0.00000e+00
122.4	0.00000e+00	0.00000e+00	0.00000e+00
122.5	0.00000e+00	0.00000e+00	0.00000e+00
122.6	0.00000e+00	0.00000e+00	0.00000e+00
122.7	0.00000e+00	0.00000e+00	0.00000e+00
122.8	0.00000e+00	0.00000e+00	0.00000e+00
122.9	0.00000e+00	0.00000e+00	0.00000e+00
123.0	0.00000e+00	0.00000e+00	0.00000e+00
123.1	0.00000e+00	0.00000e+00	0.00000e+00
123.2	0.00000e+00	0.00000e+00	0.00000e+00
123.3	0.00000e+00	0.00000e+00	0.00000e+00
123.4	0.00000e+00	0.00000e+00	0.00000e+00
123.5	0.00000e+00	0.00000e+00	0.00000e+00
123.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
123.7	0.00000e+00	0.00000e+00	0.00000e+00
123.8	0.00000e+00	0.00000e+00	0.00000e+00
123.9	0.00000e+00	0.00000e+00	0.00000e+00
124.0	0.00000e+00	0.00000e+00	0.00000e+00
124.1	0.00000e+00	0.00000e+00	0.00000e+00
124.2	0.00000e+00	0.00000e+00	0.00000e+00
124.3	0.00000e+00	0.00000e+00	0.00000e+00
124.4	0.00000e+00	0.00000e+00	0.00000e+00
124.5	0.00000e+00	0.00000e+00	0.00000e+00
124.6	0.00000e+00	0.00000e+00	0.00000e+00
124.7	0.00000e+00	0.00000e+00	0.00000e+00
124.8	0.00000e+00	0.00000e+00	0.00000e+00
124.9	0.00000e+00	0.00000e+00	0.00000e+00
125.0	0.00000e+00	0.00000e+00	0.00000e+00
125.1	0.00000e+00	0.00000e+00	0.00000e+00
125.2	0.00000e+00	0.00000e+00	0.00000e+00
125.3	0.00000e+00	0.00000e+00	0.00000e+00
125.4	0.00000e+00	0.00000e+00	0.00000e+00
125.5	0.00000e+00	0.00000e+00	0.00000e+00
125.6	0.00000e+00	0.00000e+00	0.00000e+00
125.7	0.00000e+00	0.00000e+00	0.00000e+00
125.8	0.00000e+00	0.00000e+00	0.00000e+00
125.9	0.00000e+00	0.00000e+00	0.00000e+00
126.0	0.00000e+00	0.00000e+00	0.00000e+00
126.1	0.00000e+00	0.00000e+00	0.00000e+00
126.2	0.00000e+00	0.00000e+00	0.00000e+00
126.3	0.00000e+00	0.00000e+00	0.00000e+00
126.4	0.00000e+00	0.00000e+00	0.00000e+00
126.5	0.00000e+00	0.00000e+00	0.00000e+00
126.6	0.00000e+00	0.00000e+00	0.00000e+00
126.7	0.00000e+00	0.00000e+00	0.00000e+00
126.8	0.00000e+00	0.00000e+00	0.00000e+00
126.9	0.00000e+00	0.00000e+00	0.00000e+00
127.0	0.00000e+00	0.00000e+00	0.00000e+00
127.1	0.00000e+00	0.00000e+00	0.00000e+00
127.2	0.00000e+00	0.00000e+00	0.00000e+00
127.3	0.00000e+00	0.00000e+00	0.00000e+00
127.4	0.00000e+00	0.00000e+00	0.00000e+00
127.5	0.00000e+00	0.00000e+00	0.00000e+00
127.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
127.7	0.00000e+00	0.00000e+00	0.00000e+00
127.8	0.00000e+00	0.00000e+00	0.00000e+00
127.9	0.00000e+00	0.00000e+00	0.00000e+00
128.0	0.00000e+00	0.00000e+00	0.00000e+00
128.1	0.00000e+00	0.00000e+00	0.00000e+00
128.2	0.00000e+00	0.00000e+00	0.00000e+00
128.3	0.00000e+00	0.00000e+00	0.00000e+00
128.4	0.00000e+00	0.00000e+00	0.00000e+00
128.5	0.00000e+00	0.00000e+00	0.00000e+00
128.6	0.00000e+00	0.00000e+00	0.00000e+00
128.7	0.00000e+00	0.00000e+00	0.00000e+00
128.8	0.00000e+00	0.00000e+00	0.00000e+00
128.9	0.00000e+00	0.00000e+00	0.00000e+00
129.0	0.00000e+00	0.00000e+00	0.00000e+00
129.1	0.00000e+00	0.00000e+00	0.00000e+00
129.2	0.00000e+00	0.00000e+00	0.00000e+00
129.3	0.00000e+00	0.00000e+00	0.00000e+00
129.4	0.00000e+00	0.00000e+00	0.00000e+00
129.5	0.00000e+00	0.00000e+00	0.00000e+00
129.6	0.00000e+00	0.00000e+00	0.00000e+00
129.7	0.00000e+00	0.00000e+00	0.00000e+00
129.8	0.00000e+00	0.00000e+00	0.00000e+00
129.9	0.00000e+00	0.00000e+00	0.00000e+00
130.0	0.00000e+00	0.00000e+00	0.00000e+00
130.1	0.00000e+00	0.00000e+00	0.00000e+00
130.2	0.00000e+00	0.00000e+00	0.00000e+00
130.3	0.00000e+00	0.00000e+00	0.00000e+00
130.4	0.00000e+00	0.00000e+00	0.00000e+00
130.5	0.00000e+00	0.00000e+00	0.00000e+00
130.6	0.00000e+00	0.00000e+00	0.00000e+00
130.7	0.00000e+00	0.00000e+00	0.00000e+00
130.8	0.00000e+00	0.00000e+00	0.00000e+00
130.9	0.00000e+00	0.00000e+00	0.00000e+00
131.0	0.00000e+00	0.00000e+00	0.00000e+00
131.1	0.00000e+00	0.00000e+00	0.00000e+00
131.2	0.00000e+00	0.00000e+00	0.00000e+00
131.3	0.00000e+00	0.00000e+00	0.00000e+00
131.4	0.00000e+00	0.00000e+00	0.00000e+00
131.5	0.00000e+00	0.00000e+00	0.00000e+00
131.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
131.7	0.00000e+00	0.00000e+00	0.00000e+00
131.8	0.00000e+00	0.00000e+00	0.00000e+00
131.9	0.00000e+00	0.00000e+00	0.00000e+00
132.0	0.00000e+00	0.00000e+00	0.00000e+00
132.1	0.00000e+00	0.00000e+00	0.00000e+00
132.2	0.00000e+00	0.00000e+00	0.00000e+00
132.3	0.00000e+00	0.00000e+00	0.00000e+00
132.4	0.00000e+00	0.00000e+00	0.00000e+00
132.5	0.00000e+00	0.00000e+00	0.00000e+00
132.6	0.00000e+00	0.00000e+00	0.00000e+00
132.7	0.00000e+00	0.00000e+00	0.00000e+00
132.8	0.00000e+00	0.00000e+00	0.00000e+00
132.9	0.00000e+00	0.00000e+00	0.00000e+00
133.0	0.00000e+00	0.00000e+00	0.00000e+00
133.1	0.00000e+00	0.00000e+00	0.00000e+00
133.2	0.00000e+00	0.00000e+00	0.00000e+00
133.3	0.00000e+00	0.00000e+00	0.00000e+00
133.4	0.00000e+00	0.00000e+00	0.00000e+00
133.5	0.00000e+00	0.00000e+00	0.00000e+00
133.6	0.00000e+00	0.00000e+00	0.00000e+00
133.7	0.00000e+00	0.00000e+00	0.00000e+00
133.8	0.00000e+00	0.00000e+00	0.00000e+00
133.9	0.00000e+00	0.00000e+00	0.00000e+00
134.0	0.00000e+00	0.00000e+00	0.00000e+00
134.1	0.00000e+00	0.00000e+00	0.00000e+00
134.2	0.00000e+00	0.00000e+00	0.00000e+00
134.3	0.00000e+00	0.00000e+00	0.00000e+00
134.4	0.00000e+00	0.00000e+00	0.00000e+00
134.5	0.00000e+00	0.00000e+00	0.00000e+00
134.6	0.00000e+00	0.00000e+00	0.00000e+00
134.7	0.00000e+00	0.00000e+00	0.00000e+00
134.8	0.00000e+00	0.00000e+00	0.00000e+00
134.9	0.00000e+00	0.00000e+00	0.00000e+00
135.0	0.00000e+00	0.00000e+00	0.00000e+00
135.1	0.00000e+00	0.00000e+00	0.00000e+00
135.2	0.00000e+00	0.00000e+00	0.00000e+00
135.3	0.00000e+00	0.00000e+00	0.00000e+00
135.4	0.00000e+00	0.00000e+00	0.00000e+00
135.5	0.00000e+00	0.00000e+00	0.00000e+00
135.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
135.7	0.00000e+00	0.00000e+00	0.00000e+00
135.8	0.00000e+00	0.00000e+00	0.00000e+00
135.9	0.00000e+00	0.00000e+00	0.00000e+00
136.0	0.00000e+00	0.00000e+00	0.00000e+00
136.1	0.00000e+00	0.00000e+00	0.00000e+00
136.2	0.00000e+00	0.00000e+00	0.00000e+00
136.3	0.00000e+00	0.00000e+00	0.00000e+00
136.4	0.00000e+00	0.00000e+00	0.00000e+00
136.5	0.00000e+00	0.00000e+00	0.00000e+00
136.6	0.00000e+00	0.00000e+00	0.00000e+00
136.7	0.00000e+00	0.00000e+00	0.00000e+00
136.8	0.00000e+00	0.00000e+00	0.00000e+00
136.9	0.00000e+00	0.00000e+00	0.00000e+00
137.0	0.00000e+00	0.00000e+00	0.00000e+00
137.1	0.00000e+00	0.00000e+00	0.00000e+00
137.2	0.00000e+00	0.00000e+00	0.00000e+00
137.3	0.00000e+00	0.00000e+00	0.00000e+00
137.4	0.00000e+00	0.00000e+00	0.00000e+00
137.5	0.00000e+00	0.00000e+00	0.00000e+00
137.6	0.00000e+00	0.00000e+00	0.00000e+00
137.7	0.00000e+00	0.00000e+00	0.00000e+00
137.8	0.00000e+00	0.00000e+00	0.00000e+00
137.9	0.00000e+00	0.00000e+00	0.00000e+00
138.0	0.00000e+00	0.00000e+00	0.00000e+00
138.1	0.00000e+00	0.00000e+00	0.00000e+00
138.2	0.00000e+00	0.00000e+00	0.00000e+00
138.3	0.00000e+00	0.00000e+00	0.00000e+00
138.4	0.00000e+00	0.00000e+00	0.00000e+00
138.5	0.00000e+00	0.00000e+00	0.00000e+00
138.6	0.00000e+00	0.00000e+00	0.00000e+00
138.7	0.00000e+00	0.00000e+00	0.00000e+00
138.8	0.00000e+00	0.00000e+00	0.00000e+00
138.9	0.00000e+00	0.00000e+00	0.00000e+00
139.0	0.00000e+00	0.00000e+00	0.00000e+00
139.1	0.00000e+00	0.00000e+00	0.00000e+00
139.2	0.00000e+00	0.00000e+00	0.00000e+00
139.3	0.00000e+00	0.00000e+00	0.00000e+00
139.4	0.00000e+00	0.00000e+00	0.00000e+00
139.5	0.00000e+00	0.00000e+00	0.00000e+00
139.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
139.7	0.00000e+00	0.00000e+00	0.00000e+00
139.8	0.00000e+00	0.00000e+00	0.00000e+00
139.9	0.00000e+00	0.00000e+00	0.00000e+00
140.0	0.00000e+00	0.00000e+00	0.00000e+00
140.1	0.00000e+00	0.00000e+00	0.00000e+00
140.2	0.00000e+00	0.00000e+00	0.00000e+00
140.3	0.00000e+00	0.00000e+00	0.00000e+00
140.4	0.00000e+00	0.00000e+00	0.00000e+00
140.5	0.00000e+00	0.00000e+00	0.00000e+00
140.6	0.00000e+00	0.00000e+00	0.00000e+00
140.7	0.00000e+00	0.00000e+00	0.00000e+00
140.8	0.00000e+00	0.00000e+00	0.00000e+00
140.9	0.00000e+00	0.00000e+00	0.00000e+00
141.0	0.00000e+00	0.00000e+00	0.00000e+00
141.1	0.00000e+00	0.00000e+00	0.00000e+00
141.2	0.00000e+00	0.00000e+00	0.00000e+00
141.3	0.00000e+00	0.00000e+00	0.00000e+00
141.4	0.00000e+00	0.00000e+00	0.00000e+00
141.5	0.00000e+00	0.00000e+00	0.00000e+00
141.6	0.00000e+00	0.00000e+00	0.00000e+00
141.7	0.00000e+00	0.00000e+00	0.00000e+00
141.8	0.00000e+00	0.00000e+00	0.00000e+00
141.9	0.00000e+00	0.00000e+00	0.00000e+00
142.0	0.00000e+00	0.00000e+00	0.00000e+00
142.1	0.00000e+00	0.00000e+00	0.00000e+00
142.2	0.00000e+00	0.00000e+00	0.00000e+00
142.3	0.00000e+00	0.00000e+00	0.00000e+00
142.4	0.00000e+00	0.00000e+00	0.00000e+00
142.5	0.00000e+00	0.00000e+00	0.00000e+00
142.6	0.00000e+00	0.00000e+00	0.00000e+00
142.7	0.00000e+00	0.00000e+00	0.00000e+00
142.8	0.00000e+00	0.00000e+00	0.00000e+00
142.9	0.00000e+00	0.00000e+00	0.00000e+00
143.0	0.00000e+00	0.00000e+00	0.00000e+00
143.1	0.00000e+00	0.00000e+00	0.00000e+00
143.2	0.00000e+00	0.00000e+00	0.00000e+00
143.3	0.00000e+00	0.00000e+00	0.00000e+00
143.4	0.00000e+00	0.00000e+00	0.00000e+00
143.5	0.00000e+00	0.00000e+00	0.00000e+00
143.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
143.7	0.00000e+00	0.00000e+00	0.00000e+00
143.8	0.00000e+00	0.00000e+00	0.00000e+00
143.9	0.00000e+00	0.00000e+00	0.00000e+00
144.0	0.00000e+00	0.00000e+00	0.00000e+00
144.1	0.00000e+00	0.00000e+00	0.00000e+00
144.2	0.00000e+00	0.00000e+00	0.00000e+00
144.3	0.00000e+00	0.00000e+00	0.00000e+00
144.4	0.00000e+00	0.00000e+00	0.00000e+00
144.5	0.00000e+00	0.00000e+00	0.00000e+00
144.6	0.00000e+00	0.00000e+00	0.00000e+00
144.7	0.00000e+00	0.00000e+00	0.00000e+00
144.8	0.00000e+00	0.00000e+00	0.00000e+00
144.9	0.00000e+00	0.00000e+00	0.00000e+00
145.0	0.00000e+00	0.00000e+00	0.00000e+00
145.1	0.00000e+00	0.00000e+00	0.00000e+00
145.2	0.00000e+00	0.00000e+00	0.00000e+00
145.3	0.00000e+00	0.00000e+00	0.00000e+00
145.4	0.00000e+00	0.00000e+00	0.00000e+00
145.5	0.00000e+00	0.00000e+00	0.00000e+00
145.6	0.00000e+00	0.00000e+00	0.00000e+00
145.7	0.00000e+00	0.00000e+00	0.00000e+00
145.8	0.00000e+00	0.00000e+00	0.00000e+00
145.9	0.00000e+00	0.00000e+00	0.00000e+00
146.0	0.00000e+00	0.00000e+00	0.00000e+00
146.1	0.00000e+00	0.00000e+00	0.00000e+00
146.2	0.00000e+00	0.00000e+00	0.00000e+00
146.3	0.00000e+00	0.00000e+00	0.00000e+00
146.4	0.00000e+00	0.00000e+00	0.00000e+00
146.5	0.00000e+00	0.00000e+00	0.00000e+00
146.6	0.00000e+00	0.00000e+00	0.00000e+00
146.7	0.00000e+00	0.00000e+00	0.00000e+00
146.8	0.00000e+00	0.00000e+00	0.00000e+00
146.9	0.00000e+00	0.00000e+00	0.00000e+00
147.0	0.00000e+00	0.00000e+00	0.00000e+00
147.1	0.00000e+00	0.00000e+00	0.00000e+00
147.2	0.00000e+00	0.00000e+00	0.00000e+00
147.3	0.00000e+00	0.00000e+00	0.00000e+00
147.4	0.00000e+00	0.00000e+00	0.00000e+00
147.5	0.00000e+00	0.00000e+00	0.00000e+00
147.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
147.7	0.00000e+00	0.00000e+00	0.00000e+00
147.8	0.00000e+00	0.00000e+00	0.00000e+00
147.9	0.00000e+00	0.00000e+00	0.00000e+00
148.0	0.00000e+00	0.00000e+00	0.00000e+00
148.1	0.00000e+00	0.00000e+00	0.00000e+00
148.2	0.00000e+00	0.00000e+00	0.00000e+00
148.3	0.00000e+00	0.00000e+00	0.00000e+00
148.4	0.00000e+00	0.00000e+00	0.00000e+00
148.5	0.00000e+00	0.00000e+00	0.00000e+00
148.6	0.00000e+00	0.00000e+00	0.00000e+00
148.7	0.00000e+00	0.00000e+00	0.00000e+00
148.8	0.00000e+00	0.00000e+00	0.00000e+00
148.9	0.00000e+00	0.00000e+00	0.00000e+00
149.0	0.00000e+00	0.00000e+00	0.00000e+00
149.1	0.00000e+00	0.00000e+00	0.00000e+00
149.2	0.00000e+00	0.00000e+00	0.00000e+00
149.3	0.00000e+00	0.00000e+00	0.00000e+00
149.4	0.00000e+00	0.00000e+00	0.00000e+00
149.5	0.00000e+00	0.00000e+00	0.00000e+00
149.6	0.00000e+00	0.00000e+00	0.00000e+00
149.7	0.00000e+00	0.00000e+00	0.00000e+00
149.8	0.00000e+00	0.00000e+00	0.00000e+00
149.9	0.00000e+00	0.00000e+00	0.00000e+00
150.0	0.00000e+00	0.00000e+00	0.00000e+00
150.1	0.00000e+00	0.00000e+00	0.00000e+00
150.2	0.00000e+00	0.00000e+00	0.00000e+00
150.3	0.00000e+00	0.00000e+00	0.00000e+00
150.4	0.00000e+00	0.00000e+00	0.00000e+00
150.5	0.00000e+00	0.00000e+00	0.00000e+00
150.6	0.00000e+00	0.00000e+00	0.00000e+00
150.7	0.00000e+00	0.00000e+00	0.00000e+00
150.8	0.00000e+00	0.00000e+00	0.00000e+00
150.9	0.00000e+00	0.00000e+00	0.00000e+00
151.0	0.00000e+00	0.00000e+00	0.00000e+00
151.1	0.00000e+00	0.00000e+00	0.00000e+00
151.2	0.00000e+00	0.00000e+00	0.00000e+00
151.3	0.00000e+00	0.00000e+00	0.00000e+00
151.4	0.00000e+00	0.00000e+00	0.00000e+00
151.5	0.00000e+00	0.00000e+00	0.00000e+00
151.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
151.7	0.00000e+00	0.00000e+00	0.00000e+00
151.8	0.00000e+00	0.00000e+00	0.00000e+00
151.9	0.00000e+00	0.00000e+00	0.00000e+00
152.0	0.00000e+00	0.00000e+00	0.00000e+00
152.1	0.00000e+00	0.00000e+00	0.00000e+00
152.2	0.00000e+00	0.00000e+00	0.00000e+00
152.3	0.00000e+00	0.00000e+00	0.00000e+00
152.4	0.00000e+00	0.00000e+00	0.00000e+00
152.5	0.00000e+00	0.00000e+00	0.00000e+00
152.6	0.00000e+00	0.00000e+00	0.00000e+00
152.7	0.00000e+00	0.00000e+00	0.00000e+00
152.8	0.00000e+00	0.00000e+00	0.00000e+00
152.9	0.00000e+00	0.00000e+00	0.00000e+00
153.0	0.00000e+00	0.00000e+00	0.00000e+00
153.1	0.00000e+00	0.00000e+00	0.00000e+00
153.2	0.00000e+00	0.00000e+00	0.00000e+00
153.3	0.00000e+00	0.00000e+00	0.00000e+00
153.4	0.00000e+00	0.00000e+00	0.00000e+00
153.5	0.00000e+00	0.00000e+00	0.00000e+00
153.6	0.00000e+00	0.00000e+00	0.00000e+00
153.7	0.00000e+00	0.00000e+00	0.00000e+00
153.8	0.00000e+00	0.00000e+00	0.00000e+00
153.9	0.00000e+00	0.00000e+00	0.00000e+00
154.0	0.00000e+00	0.00000e+00	0.00000e+00
154.1	0.00000e+00	0.00000e+00	0.00000e+00
154.2	0.00000e+00	0.00000e+00	0.00000e+00
154.3	0.00000e+00	0.00000e+00	0.00000e+00
154.4	0.00000e+00	0.00000e+00	0.00000e+00
154.5	0.00000e+00	0.00000e+00	0.00000e+00
154.6	0.00000e+00	0.00000e+00	0.00000e+00
154.7	0.00000e+00	0.00000e+00	0.00000e+00
154.8	0.00000e+00	0.00000e+00	0.00000e+00
154.9	0.00000e+00	0.00000e+00	0.00000e+00
155.0	0.00000e+00	0.00000e+00	0.00000e+00
155.1	0.00000e+00	0.00000e+00	0.00000e+00
155.2	0.00000e+00	0.00000e+00	0.00000e+00
155.3	0.00000e+00	0.00000e+00	0.00000e+00
155.4	0.00000e+00	0.00000e+00	0.00000e+00
155.5	0.00000e+00	0.00000e+00	0.00000e+00
155.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
155.7	0.00000e+00	0.00000e+00	0.00000e+00
155.8	0.00000e+00	0.00000e+00	0.00000e+00
155.9	0.00000e+00	0.00000e+00	0.00000e+00
156.0	0.00000e+00	0.00000e+00	0.00000e+00
156.1	0.00000e+00	0.00000e+00	0.00000e+00
156.2	0.00000e+00	0.00000e+00	0.00000e+00
156.3	0.00000e+00	0.00000e+00	0.00000e+00
156.4	0.00000e+00	0.00000e+00	0.00000e+00
156.5	0.00000e+00	0.00000e+00	0.00000e+00
156.6	0.00000e+00	0.00000e+00	0.00000e+00
156.7	0.00000e+00	0.00000e+00	0.00000e+00
156.8	0.00000e+00	0.00000e+00	0.00000e+00
156.9	0.00000e+00	0.00000e+00	0.00000e+00
157.0	0.00000e+00	0.00000e+00	0.00000e+00
157.1	0.00000e+00	0.00000e+00	0.00000e+00
157.2	0.00000e+00	0.00000e+00	0.00000e+00
157.3	0.00000e+00	0.00000e+00	0.00000e+00
157.4	0.00000e+00	0.00000e+00	0.00000e+00
157.5	0.00000e+00	0.00000e+00	0.00000e+00
157.6	0.00000e+00	0.00000e+00	0.00000e+00
157.7	0.00000e+00	0.00000e+00	0.00000e+00
157.8	0.00000e+00	0.00000e+00	0.00000e+00
157.9	0.00000e+00	0.00000e+00	0.00000e+00
158.0	0.00000e+00	0.00000e+00	0.00000e+00
158.1	0.00000e+00	0.00000e+00	0.00000e+00
158.2	0.00000e+00	0.00000e+00	0.00000e+00
158.3	0.00000e+00	0.00000e+00	0.00000e+00
158.4	0.00000e+00	0.00000e+00	0.00000e+00
158.5	0.00000e+00	0.00000e+00	0.00000e+00
158.6	0.00000e+00	0.00000e+00	0.00000e+00
158.7	0.00000e+00	0.00000e+00	0.00000e+00
158.8	0.00000e+00	0.00000e+00	0.00000e+00
158.9	0.00000e+00	0.00000e+00	0.00000e+00
159.0	0.00000e+00	0.00000e+00	0.00000e+00
159.1	0.00000e+00	0.00000e+00	0.00000e+00
159.2	0.00000e+00	0.00000e+00	0.00000e+00
159.3	0.00000e+00	0.00000e+00	0.00000e+00
159.4	0.00000e+00	0.00000e+00	0.00000e+00
159.5	0.00000e+00	0.00000e+00	0.00000e+00
159.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
159.7	0.00000e+00	0.00000e+00	0.00000e+00
159.8	0.00000e+00	0.00000e+00	0.00000e+00
159.9	0.00000e+00	0.00000e+00	0.00000e+00
160.0	0.00000e+00	0.00000e+00	0.00000e+00
160.1	0.00000e+00	0.00000e+00	0.00000e+00
160.2	0.00000e+00	0.00000e+00	0.00000e+00
160.3	0.00000e+00	0.00000e+00	0.00000e+00
160.4	0.00000e+00	0.00000e+00	0.00000e+00
160.5	0.00000e+00	0.00000e+00	0.00000e+00
160.6	0.00000e+00	0.00000e+00	0.00000e+00
160.7	0.00000e+00	0.00000e+00	0.00000e+00
160.8	0.00000e+00	0.00000e+00	0.00000e+00
160.9	0.00000e+00	0.00000e+00	0.00000e+00
161.0	0.00000e+00	0.00000e+00	0.00000e+00
161.1	0.00000e+00	0.00000e+00	0.00000e+00
161.2	0.00000e+00	0.00000e+00	0.00000e+00
161.3	0.00000e+00	0.00000e+00	0.00000e+00
161.4	0.00000e+00	0.00000e+00	0.00000e+00
161.5	0.00000e+00	0.00000e+00	0.00000e+00
161.6	0.00000e+00	0.00000e+00	0.00000e+00
161.7	0.00000e+00	0.00000e+00	0.00000e+00
161.8	0.00000e+00	0.00000e+00	0.00000e+00
161.9	0.00000e+00	0.00000e+00	0.00000e+00
162.0	0.00000e+00	0.00000e+00	0.00000e+00
162.1	0.00000e+00	0.00000e+00	0.00000e+00
162.2	0.00000e+00	0.00000e+00	0.00000e+00
162.3	0.00000e+00	0.00000e+00	0.00000e+00
162.4	0.00000e+00	0.00000e+00	0.00000e+00
162.5	0.00000e+00	0.00000e+00	0.00000e+00
162.6	0.00000e+00	0.00000e+00	0.00000e+00
162.7	0.00000e+00	0.00000e+00	0.00000e+00
162.8	0.00000e+00	0.00000e+00	0.00000e+00
162.9	0.00000e+00	0.00000e+00	0.00000e+00
163.0	0.00000e+00	0.00000e+00	0.00000e+00
163.1	0.00000e+00	0.00000e+00	0.00000e+00
163.2	0.00000e+00	0.00000e+00	0.00000e+00
163.3	0.00000e+00	0.00000e+00	0.00000e+00
163.4	0.00000e+00	0.00000e+00	0.00000e+00
163.5	0.00000e+00	0.00000e+00	0.00000e+00
163.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
163.7	0.00000e+00	0.00000e+00	0.00000e+00
163.8	0.00000e+00	0.00000e+00	0.00000e+00
163.9	0.00000e+00	0.00000e+00	0.00000e+00
164.0	0.00000e+00	0.00000e+00	0.00000e+00
164.1	0.00000e+00	0.00000e+00	0.00000e+00
164.2	0.00000e+00	0.00000e+00	0.00000e+00
164.3	0.00000e+00	0.00000e+00	0.00000e+00
164.4	0.00000e+00	0.00000e+00	0.00000e+00
164.5	0.00000e+00	0.00000e+00	0.00000e+00
164.6	0.00000e+00	0.00000e+00	0.00000e+00
164.7	0.00000e+00	0.00000e+00	0.00000e+00
164.8	0.00000e+00	0.00000e+00	0.00000e+00
164.9	0.00000e+00	0.00000e+00	0.00000e+00
165.0	0.00000e+00	0.00000e+00	0.00000e+00
165.1	0.00000e+00	0.00000e+00	0.00000e+00
165.2	0.00000e+00	0.00000e+00	0.00000e+00
165.3	0.00000e+00	0.00000e+00	0.00000e+00
165.4	0.00000e+00	0.00000e+00	0.00000e+00
165.5	0.00000e+00	0.00000e+00	0.00000e+00
165.6	0.00000e+00	0.00000e+00	0.00000e+00
165.7	0.00000e+00	0.00000e+00	0.00000e+00
165.8	0.00000e+00	0.00000e+00	0.00000e+00
165.9	0.00000e+00	0.00000e+00	0.00000e+00
166.0	0.00000e+00	0.00000e+00	0.00000e+00
166.1	0.00000e+00	0.00000e+00	0.00000e+00
166.2	0.00000e+00	0.00000e+00	0.00000e+00
166.3	0.00000e+00	0.00000e+00	0.00000e+00
166.4	0.00000e+00	0.00000e+00	0.00000e+00
166.5	0.00000e+00	0.00000e+00	0.00000e+00
166.6	0.00000e+00	0.00000e+00	0.00000e+00
166.7	0.00000e+00	0.00000e+00	0.00000e+00
166.8	0.00000e+00	0.00000e+00	0.00000e+00
166.9	0.00000e+00	0.00000e+00	0.00000e+00
167.0	0.00000e+00	0.00000e+00	0.00000e+00
167.1	0.00000e+00	0.00000e+00	0.00000e+00
167.2	0.00000e+00	0.00000e+00	0.00000e+00
167.3	0.00000e+00	0.00000e+00	0.00000e+00
167.4	0.00000e+00	0.00000e+00	0.00000e+00
167.5	0.00000e+00	0.00000e+00	0.00000e+00
167.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
167.7	0.00000e+00	0.00000e+00	0.00000e+00
167.8	0.00000e+00	0.00000e+00	0.00000e+00
167.9	0.00000e+00	0.00000e+00	0.00000e+00
168.0	0.00000e+00	0.00000e+00	0.00000e+00
168.1	0.00000e+00	0.00000e+00	0.00000e+00
168.2	0.00000e+00	0.00000e+00	0.00000e+00
168.3	0.00000e+00	0.00000e+00	0.00000e+00
168.4	0.00000e+00	0.00000e+00	0.00000e+00
168.5	0.00000e+00	0.00000e+00	0.00000e+00
168.6	0.00000e+00	0.00000e+00	0.00000e+00
168.7	0.00000e+00	0.00000e+00	0.00000e+00
168.8	0.00000e+00	0.00000e+00	0.00000e+00
168.9	0.00000e+00	0.00000e+00	0.00000e+00
169.0	0.00000e+00	0.00000e+00	0.00000e+00
169.1	0.00000e+00	0.00000e+00	0.00000e+00
169.2	0.00000e+00	0.00000e+00	0.00000e+00
169.3	0.00000e+00	0.00000e+00	0.00000e+00
169.4	0.00000e+00	0.00000e+00	0.00000e+00
169.5	0.00000e+00	0.00000e+00	0.00000e+00
169.6	0.00000e+00	0.00000e+00	0.00000e+00
169.7	0.00000e+00	0.00000e+00	0.00000e+00
169.8	0.00000e+00	0.00000e+00	0.00000e+00
169.9	0.00000e+00	0.00000e+00	0.00000e+00
170.0	0.00000e+00	0.00000e+00	0.00000e+00
170.1	0.00000e+00	0.00000e+00	0.00000e+00
170.2	0.00000e+00	0.00000e+00	0.00000e+00
170.3	0.00000e+00	0.00000e+00	0.00000e+00
170.4	0.00000e+00	0.00000e+00	0.00000e+00
170.5	0.00000e+00	0.00000e+00	0.00000e+00
170.6	0.00000e+00	0.00000e+00	0.00000e+00
170.7	0.00000e+00	0.00000e+00	0.00000e+00
170.8	0.00000e+00	0.00000e+00	0.00000e+00
170.9	0.00000e+00	0.00000e+00	0.00000e+00
171.0	0.00000e+00	0.00000e+00	0.00000e+00
171.1	0.00000e+00	0.00000e+00	0.00000e+00
171.2	0.00000e+00	0.00000e+00	0.00000e+00
171.3	0.00000e+00	0.00000e+00	0.00000e+00
171.4	0.00000e+00	0.00000e+00	0.00000e+00
171.5	0.00000e+00	0.00000e+00	0.00000e+00
171.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
171.7	0.00000e+00	0.00000e+00	0.00000e+00
171.8	0.00000e+00	0.00000e+00	0.00000e+00
171.9	0.00000e+00	0.00000e+00	0.00000e+00
172.0	0.00000e+00	0.00000e+00	0.00000e+00
172.1	0.00000e+00	0.00000e+00	0.00000e+00
172.2	0.00000e+00	0.00000e+00	0.00000e+00
172.3	0.00000e+00	0.00000e+00	0.00000e+00
172.4	0.00000e+00	0.00000e+00	0.00000e+00
172.5	0.00000e+00	0.00000e+00	0.00000e+00
172.6	0.00000e+00	0.00000e+00	0.00000e+00
172.7	0.00000e+00	0.00000e+00	0.00000e+00
172.8	0.00000e+00	0.00000e+00	0.00000e+00
172.9	0.00000e+00	0.00000e+00	0.00000e+00
173.0	0.00000e+00	0.00000e+00	0.00000e+00
173.1	0.00000e+00	0.00000e+00	0.00000e+00
173.2	0.00000e+00	0.00000e+00	0.00000e+00
173.3	0.00000e+00	0.00000e+00	0.00000e+00
173.4	0.00000e+00	0.00000e+00	0.00000e+00
173.5	0.00000e+00	0.00000e+00	0.00000e+00
173.6	0.00000e+00	0.00000e+00	0.00000e+00
173.7	0.00000e+00	0.00000e+00	0.00000e+00
173.8	0.00000e+00	0.00000e+00	0.00000e+00
173.9	0.00000e+00	0.00000e+00	0.00000e+00
174.0	0.00000e+00	0.00000e+00	0.00000e+00
174.1	0.00000e+00	0.00000e+00	0.00000e+00
174.2	0.00000e+00	0.00000e+00	0.00000e+00
174.3	0.00000e+00	0.00000e+00	0.00000e+00
174.4	0.00000e+00	0.00000e+00	0.00000e+00
174.5	0.00000e+00	0.00000e+00	0.00000e+00
174.6	0.00000e+00	0.00000e+00	0.00000e+00
174.7	0.00000e+00	0.00000e+00	0.00000e+00
174.8	0.00000e+00	0.00000e+00	0.00000e+00
174.9	0.00000e+00	0.00000e+00	0.00000e+00
175.0	0.00000e+00	0.00000e+00	0.00000e+00
175.1	0.00000e+00	0.00000e+00	0.00000e+00
175.2	0.00000e+00	0.00000e+00	0.00000e+00
175.3	0.00000e+00	0.00000e+00	0.00000e+00
175.4	0.00000e+00	0.00000e+00	0.00000e+00
175.5	0.00000e+00	0.00000e+00	0.00000e+00
175.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
175.7	0.00000e+00	0.00000e+00	0.00000e+00
175.8	0.00000e+00	0.00000e+00	0.00000e+00
175.9	0.00000e+00	0.00000e+00	0.00000e+00
176.0	0.00000e+00	0.00000e+00	0.00000e+00
176.1	0.00000e+00	0.00000e+00	0.00000e+00
176.2	0.00000e+00	0.00000e+00	0.00000e+00
176.3	0.00000e+00	0.00000e+00	0.00000e+00
176.4	0.00000e+00	0.00000e+00	0.00000e+00
176.5	0.00000e+00	0.00000e+00	0.00000e+00
176.6	0.00000e+00	0.00000e+00	0.00000e+00
176.7	0.00000e+00	0.00000e+00	0.00000e+00
176.8	0.00000e+00	0.00000e+00	0.00000e+00
176.9	0.00000e+00	0.00000e+00	0.00000e+00
177.0	0.00000e+00	0.00000e+00	0.00000e+00
177.1	0.00000e+00	0.00000e+00	0.00000e+00
177.2	0.00000e+00	0.00000e+00	0.00000e+00
177.3	0.00000e+00	0.00000e+00	0.00000e+00
177.4	0.00000e+00	0.00000e+00	0.00000e+00
177.5	0.00000e+00	0.00000e+00	0.00000e+00
177.6	0.00000e+00	0.00000e+00	0.00000e+00
177.7	0.00000e+00	0.00000e+00	0.00000e+00
177.8	0.00000e+00	0.00000e+00	0.00000e+00
177.9	0.00000e+00	0.00000e+00	0.00000e+00
178.0	0.00000e+00	0.00000e+00	0.00000e+00
178.1	0.00000e+00	0.00000e+00	0.00000e+00
178.2	0.00000e+00	0.00000e+00	0.00000e+00
178.3	0.00000e+00	0.00000e+00	0.00000e+00
178.4	0.00000e+00	0.00000e+00	0.00000e+00
178.5	0.00000e+00	0.00000e+00	0.00000e+00
178.6	0.00000e+00	0.00000e+00	0.00000e+00
178.7	0.00000e+00	0.00000e+00	0.00000e+00
178.8	0.00000e+00	0.00000e+00	0.00000e+00
178.9	0.00000e+00	0.00000e+00	0.00000e+00
179.0	0.00000e+00	0.00000e+00	0.00000e+00
179.1	0.00000e+00	0.00000e+00	0.00000e+00
179.2	0.00000e+00	0.00000e+00	0.00000e+00
179.3	0.00000e+00	0.00000e+00	0.00000e+00
179.4	0.00000e+00	0.00000e+00	0.00000e+00
179.5	0.00000e+00	0.00000e+00	0.00000e+00
179.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
179.7	0.00000e+00	0.00000e+00	0.00000e+00
179.8	0.00000e+00	0.00000e+00	0.00000e+00
179.9	0.00000e+00	0.00000e+00	0.00000e+00
180.0	0.00000e+00	0.00000e+00	0.00000e+00
180.1	0.00000e+00	0.00000e+00	0.00000e+00
180.2	0.00000e+00	0.00000e+00	0.00000e+00
180.3	0.00000e+00	0.00000e+00	0.00000e+00
180.4	0.00000e+00	0.00000e+00	0.00000e+00
180.5	0.00000e+00	0.00000e+00	0.00000e+00
180.6	0.00000e+00	0.00000e+00	0.00000e+00
180.7	0.00000e+00	0.00000e+00	0.00000e+00
180.8	0.00000e+00	0.00000e+00	0.00000e+00
180.9	0.00000e+00	0.00000e+00	0.00000e+00
181.0	0.00000e+00	0.00000e+00	0.00000e+00
181.1	0.00000e+00	0.00000e+00	0.00000e+00
181.2	0.00000e+00	0.00000e+00	0.00000e+00
181.3	0.00000e+00	0.00000e+00	0.00000e+00
181.4	0.00000e+00	0.00000e+00	0.00000e+00
181.5	0.00000e+00	0.00000e+00	0.00000e+00
181.6	0.00000e+00	0.00000e+00	0.00000e+00
181.7	0.00000e+00	0.00000e+00	0.00000e+00
181.8	0.00000e+00	0.00000e+00	0.00000e+00
181.9	0.00000e+00	0.00000e+00	0.00000e+00
182.0	0.00000e+00	0.00000e+00	0.00000e+00
182.1	0.00000e+00	0.00000e+00	0.00000e+00
182.2	0.00000e+00	0.00000e+00	0.00000e+00
182.3	0.00000e+00	0.00000e+00	0.00000e+00
182.4	0.00000e+00	0.00000e+00	0.00000e+00
182.5	0.00000e+00	0.00000e+00	0.00000e+00
182.6	0.00000e+00	0.00000e+00	0.00000e+00
182.7	0.00000e+00	0.00000e+00	0.00000e+00
182.8	0.00000e+00	0.00000e+00	0.00000e+00
182.9	0.00000e+00	0.00000e+00	0.00000e+00
183.0	0.00000e+00	0.00000e+00	0.00000e+00
183.1	0.00000e+00	0.00000e+00	0.00000e+00
183.2	0.00000e+00	0.00000e+00	0.00000e+00
183.3	0.00000e+00	0.00000e+00	0.00000e+00
183.4	0.00000e+00	0.00000e+00	0.00000e+00
183.5	0.00000e+00	0.00000e+00	0.00000e+00
183.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
183.7	0.00000e+00	0.00000e+00	0.00000e+00
183.8	0.00000e+00	0.00000e+00	0.00000e+00
183.9	0.00000e+00	0.00000e+00	0.00000e+00
184.0	0.00000e+00	0.00000e+00	0.00000e+00
184.1	0.00000e+00	0.00000e+00	0.00000e+00
184.2	0.00000e+00	0.00000e+00	0.00000e+00
184.3	0.00000e+00	0.00000e+00	0.00000e+00
184.4	0.00000e+00	0.00000e+00	0.00000e+00
184.5	0.00000e+00	0.00000e+00	0.00000e+00
184.6	0.00000e+00	0.00000e+00	0.00000e+00
184.7	0.00000e+00	0.00000e+00	0.00000e+00
184.8	0.00000e+00	0.00000e+00	0.00000e+00
184.9	0.00000e+00	0.00000e+00	0.00000e+00
185.0	0.00000e+00	0.00000e+00	0.00000e+00
185.1	0.00000e+00	0.00000e+00	0.00000e+00
185.2	0.00000e+00	0.00000e+00	0.00000e+00
185.3	0.00000e+00	0.00000e+00	0.00000e+00
185.4	0.00000e+00	0.00000e+00	0.00000e+00
185.5	0.00000e+00	0.00000e+00	0.00000e+00
185.6	0.00000e+00	0.00000e+00	0.00000e+00
185.7	0.00000e+00	0.00000e+00	0.00000e+00
185.8	0.00000e+00	0.00000e+00	0.00000e+00
185.9	0.00000e+00	0.00000e+00	0.00000e+00
186.0	0.00000e+00	0.00000e+00	0.00000e+00
186.1	0.00000e+00	0.00000e+00	0.00000e+00
186.2	0.00000e+00	0.00000e+00	0.00000e+00
186.3	0.00000e+00	0.00000e+00	0.00000e+00
186.4	0.00000e+00	0.00000e+00	0.00000e+00
186.5	0.00000e+00	0.00000e+00	0.00000e+00
186.6	0.00000e+00	0.00000e+00	0.00000e+00
186.7	0.00000e+00	0.00000e+00	0.00000e+00
186.8	0.00000e+00	0.00000e+00	0.00000e+00
186.9	0.00000e+00	0.00000e+00	0.00000e+00
187.0	0.00000e+00	0.00000e+00	0.00000e+00
187.1	0.00000e+00	0.00000e+00	0.00000e+00
187.2	0.00000e+00	0.00000e+00	0.00000e+00
187.3	0.00000e+00	0.00000e+00	0.00000e+00
187.4	0.00000e+00	0.00000e+00	0.00000e+00
187.5	0.00000e+00	0.00000e+00	0.00000e+00
187.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
187.7	0.00000e+00	0.00000e+00	0.00000e+00
187.8	0.00000e+00	0.00000e+00	0.00000e+00
187.9	0.00000e+00	0.00000e+00	0.00000e+00
188.0	0.00000e+00	0.00000e+00	0.00000e+00
188.1	0.00000e+00	0.00000e+00	0.00000e+00
188.2	0.00000e+00	0.00000e+00	0.00000e+00
188.3	0.00000e+00	0.00000e+00	0.00000e+00
188.4	0.00000e+00	0.00000e+00	0.00000e+00
188.5	0.00000e+00	0.00000e+00	0.00000e+00
188.6	0.00000e+00	0.00000e+00	0.00000e+00
188.7	0.00000e+00	0.00000e+00	0.00000e+00
188.8	0.00000e+00	0.00000e+00	0.00000e+00
188.9	0.00000e+00	0.00000e+00	0.00000e+00
189.0	0.00000e+00	0.00000e+00	0.00000e+00
189.1	0.00000e+00	0.00000e+00	0.00000e+00
189.2	0.00000e+00	0.00000e+00	0.00000e+00
189.3	0.00000e+00	0.00000e+00	0.00000e+00
189.4	0.00000e+00	0.00000e+00	0.00000e+00
189.5	0.00000e+00	0.00000e+00	0.00000e+00
189.6	0.00000e+00	0.00000e+00	0.00000e+00
189.7	0.00000e+00	0.00000e+00	0.00000e+00
189.8	0.00000e+00	0.00000e+00	0.00000e+00
189.9	0.00000e+00	0.00000e+00	0.00000e+00
190.0	0.00000e+00	0.00000e+00	0.00000e+00
190.1	0.00000e+00	0.00000e+00	0.00000e+00
190.2	0.00000e+00	0.00000e+00	0.00000e+00
190.3	0.00000e+00	0.00000e+00	0.00000e+00
190.4	0.00000e+00	0.00000e+00	0.00000e+00
190.5	0.00000e+00	0.00000e+00	0.00000e+00
190.6	0.00000e+00	0.00000e+00	0.00000e+00
190.7	0.00000e+00	0.00000e+00	0.00000e+00
190.8	0.00000e+00	0.00000e+00	0.00000e+00
190.9	0.00000e+00	0.00000e+00	0.00000e+00
191.0	0.00000e+00	0.00000e+00	0.00000e+00
191.1	0.00000e+00	0.00000e+00	0.00000e+00
191.2	0.00000e+00	0.00000e+00	0.00000e+00
191.3	0.00000e+00	0.00000e+00	0.00000e+00
191.4	0.00000e+00	0.00000e+00	0.00000e+00
191.5	0.00000e+00	0.00000e+00	0.00000e+00
191.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
191.7	0.00000e+00	0.00000e+00	0.00000e+00
191.8	0.00000e+00	0.00000e+00	0.00000e+00
191.9	0.00000e+00	0.00000e+00	0.00000e+00
192.0	0.00000e+00	0.00000e+00	0.00000e+00
192.1	0.00000e+00	0.00000e+00	0.00000e+00
192.2	0.00000e+00	0.00000e+00	0.00000e+00
192.3	0.00000e+00	0.00000e+00	0.00000e+00
192.4	0.00000e+00	0.00000e+00	0.00000e+00
192.5	0.00000e+00	0.00000e+00	0.00000e+00
192.6	0.00000e+00	0.00000e+00	0.00000e+00
192.7	0.00000e+00	0.00000e+00	0.00000e+00
192.8	0.00000e+00	0.00000e+00	0.00000e+00
192.9	0.00000e+00	0.00000e+00	0.00000e+00
193.0	0.00000e+00	0.00000e+00	0.00000e+00
193.1	0.00000e+00	0.00000e+00	0.00000e+00
193.2	0.00000e+00	0.00000e+00	0.00000e+00
193.3	0.00000e+00	0.00000e+00	0.00000e+00
193.4	0.00000e+00	0.00000e+00	0.00000e+00
193.5	0.00000e+00	0.00000e+00	0.00000e+00
193.6	0.00000e+00	0.00000e+00	0.00000e+00
193.7	0.00000e+00	0.00000e+00	0.00000e+00
193.8	0.00000e+00	0.00000e+00	0.00000e+00
193.9	0.00000e+00	0.00000e+00	0.00000e+00
194.0	0.00000e+00	0.00000e+00	0.00000e+00
194.1	0.00000e+00	0.00000e+00	0.00000e+00
194.2	0.00000e+00	0.00000e+00	0.00000e+00
194.3	0.00000e+00	0.00000e+00	0.00000e+00
194.4	0.00000e+00	0.00000e+00	0.00000e+00
194.5	0.00000e+00	0.00000e+00	0.00000e+00
194.6	0.00000e+00	0.00000e+00	0.00000e+00
194.7	0.00000e+00	0.00000e+00	0.00000e+00
194.8	0.00000e+00	0.00000e+00	0.00000e+00
194.9	0.00000e+00	0.00000e+00	0.00000e+00
195.0	0.00000e+00	0.00000e+00	0.00000e+00
195.1	0.00000e+00	0.00000e+00	0.00000e+00
195.2	0.00000e+00	0.00000e+00	0.00000e+00
195.3	0.00000e+00	0.00000e+00	0.00000e+00
195.4	0.00000e+00	0.00000e+00	0.00000e+00
195.5	0.00000e+00	0.00000e+00	0.00000e+00
195.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
195.7	0.00000e+00	0.00000e+00	0.00000e+00
195.8	0.00000e+00	0.00000e+00	0.00000e+00
195.9	0.00000e+00	0.00000e+00	0.00000e+00
196.0	0.00000e+00	0.00000e+00	0.00000e+00
196.1	0.00000e+00	0.00000e+00	0.00000e+00
196.2	0.00000e+00	0.00000e+00	0.00000e+00
196.3	0.00000e+00	0.00000e+00	0.00000e+00
196.4	0.00000e+00	0.00000e+00	0.00000e+00
196.5	0.00000e+00	0.00000e+00	0.00000e+00
196.6	0.00000e+00	0.00000e+00	0.00000e+00
196.7	0.00000e+00	0.00000e+00	0.00000e+00
196.8	0.00000e+00	0.00000e+00	0.00000e+00
196.9	0.00000e+00	0.00000e+00	0.00000e+00
197.0	0.00000e+00	0.00000e+00	0.00000e+00
197.1	0.00000e+00	0.00000e+00	0.00000e+00
197.2	0.00000e+00	0.00000e+00	0.00000e+00
197.3	0.00000e+00	0.00000e+00	0.00000e+00
197.4	0.00000e+00	0.00000e+00	0.00000e+00
197.5	0.00000e+00	0.00000e+00	0.00000e+00
197.6	0.00000e+00	0.00000e+00	0.00000e+00
197.7	0.00000e+00	0.00000e+00	0.00000e+00
197.8	0.00000e+00	0.00000e+00	0.00000e+00
197.9	0.00000e+00	0.00000e+00	0.00000e+00
198.0	0.00000e+00	0.00000e+00	0.00000e+00
198.1	0.00000e+00	0.00000e+00	0.00000e+00
198.2	0.00000e+00	0.00000e+00	0.00000e+00
198.3	0.00000e+00	0.00000e+00	0.00000e+00
198.4	0.00000e+00	0.00000e+00	0.00000e+00
198.5	0.00000e+00	0.00000e+00	0.00000e+00
198.6	0.00000e+00	0.00000e+00	0.00000e+00
198.7	0.00000e+00	0.00000e+00	0.00000e+00
198.8	0.00000e+00	0.00000e+00	0.00000e+00
198.9	0.00000e+00	0.00000e+00	0.00000e+00
199.0	0.00000e+00	0.00000e+00	0.00000e+00
199.1	0.00000e+00	0.00000e+00	0.00000e+00
199.2	0.00000e+00	0.00000e+00	0.00000e+00
199.3	0.00000e+00	0.00000e+00	0.00000e+00
199.4	0.00000e+00	0.00000e+00	0.00000e+00
199.5	0.00000e+00	0.00000e+00	0.00000e+00
199.6	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
199.7	0.00000e+00	0.00000e+00	0.00000e+00
199.8	0.00000e+00	0.00000e+00	0.00000e+00
199.9	0.00000e+00	0.00000e+00	0.00000e+00
200.0	0.00000e+00	0.00000e+00	0.00000e+00

Table B.7.6: Output for Problem 7.1-Rn218

x	$A(x)$	P_{v1}	P_{v2}
0.0	-3.13984e-24	0.00000e+00	0.00000e+00
0.1	5.77216e-09	6.18819e-09	6.18819e-09
0.2	1.70893e-09	1.96784e-09	1.96784e-09
0.3	5.05952e-10	1.96784e-09	1.96784e-09
0.4	1.49794e-10	1.98995e-10	1.98995e-10
0.5	4.43487e-11	6.32803e-11	6.32803e-11
0.6	1.31301e-11	6.32803e-11	6.32803e-11
0.7	3.88734e-12	6.32803e-11	6.32803e-11
0.8	1.15090e-12	2.03492e-12	2.03492e-12
0.9	3.40740e-13	6.47103e-13	6.47103e-13
1.0	1.00881e-13	2.05778e-13	2.05778e-13
1.1	2.98672e-14	6.54374e-14	6.54374e-14
1.2	8.84261e-15	6.54374e-14	6.54374e-14
1.3	2.61798e-15	6.61726e-15	6.61726e-15
1.4	7.75090e-16	6.61726e-15	6.61726e-15
1.5	2.29476e-16	6.69161e-16	6.69161e-16
1.6	6.79397e-17	2.12793e-16	2.12793e-16
1.7	2.01145e-17	2.12793e-16	2.12793e-16
1.8	5.95518e-18	2.15184e-17	2.15184e-17
1.9	1.76311e-18	2.15184e-17	2.15184e-17
2.0	5.21995e-19	2.17602e-18	2.17602e-18
2.1	1.54544e-19	6.91972e-19	6.91972e-19
2.2	4.57549e-20	2.20047e-19	2.20047e-19
2.3	1.35464e-20	2.20047e-19	2.20047e-19
2.4	4.01060e-21	2.20047e-19	2.20047e-19
2.5	1.18739e-21	7.07609e-21	7.07609e-21
2.6	3.51544e-22	2.25019e-21	2.25019e-21
2.7	1.04080e-22	7.15560e-22	7.15560e-22
2.8	3.08142e-23	7.15560e-22	7.15560e-22
2.9	9.12299e-24	7.15560e-22	7.15560e-22
3.0	2.70099e-24	2.30104e-23	2.30104e-23

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x	$A(x)$	P_{v1}	P_{v2}
3.1	7.99666e-25	7.31730e-24	7.31730e-24
3.2	2.36752e-25	2.32690e-24	2.32690e-24
3.3	7.00939e-26	2.32690e-24	2.32690e-24
3.4	2.07523e-26	2.32690e-24	2.32690e-24
3.5	6.14400e-27	7.48265e-26	7.48265e-26
3.6	1.81902e-27	2.37948e-26	2.37948e-26
3.7	5.38546e-28	7.56673e-27	7.56673e-27
3.8	1.59444e-28	7.56673e-27	7.56673e-27
3.9	4.72057e-29	7.56673e-27	7.56673e-27
4.0	1.39759e-29	2.43325e-28	2.43325e-28
4.1	4.13776e-30	2.43325e-28	2.43325e-28
4.2	1.22504e-30	2.46059e-29	2.46059e-29
4.3	3.62691e-31	7.82466e-30	7.82466e-30
4.4	1.07380e-31	2.48824e-30	2.48824e-30
4.5	3.17913e-32	7.91258e-31	7.91258e-31
4.6	9.41226e-33	7.91258e-31	7.91258e-31
4.7	2.78663e-33	8.00148e-32	8.00148e-32
4.8	8.25021e-34	8.00148e-32	8.00148e-32
4.9	2.44259e-34	8.09139e-33	8.09139e-33
5.0	7.23164e-35	2.57306e-33	2.57306e-33
5.1	2.14103e-35	2.57306e-33	2.57306e-33
5.2	6.33881e-36	2.60197e-34	2.60197e-34
5.3	1.87669e-36	2.60197e-34	2.60197e-34
5.4	5.55622e-37	2.63120e-35	2.63120e-35
5.5	1.64500e-37	8.36721e-36	8.36721e-36
5.6	4.87024e-38	8.36721e-36	8.36721e-36
5.7	1.44190e-38	8.46122e-37	8.46122e-37
5.8	4.26896e-39	8.46122e-37	8.46122e-37
5.9	1.26389e-39	8.55629e-38	8.55629e-38
6.0	3.74191e-40	2.72089e-38	2.72089e-38
6.1	1.10785e-40	2.72089e-38	2.72089e-38
6.2	3.27993e-41	2.75147e-39	2.75147e-39
6.3	9.71070e-42	2.75147e-39	2.75147e-39
6.4	2.87499e-42	2.78238e-40	2.78238e-40
6.5	8.51181e-43	8.84795e-41	8.84795e-41
6.6	2.52004e-43	8.84795e-41	8.84795e-41
6.7	7.46093e-44	8.94737e-42	8.94737e-42
6.8	2.20891e-44	8.94737e-42	8.94737e-42
6.9	6.53980e-45	9.04790e-43	9.04790e-43
7.0	1.93620e-45	2.87723e-43	2.87723e-43

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x	$A(x)$	P_{v1}	P_{v2}
7.1	5.73239e-46	2.87723e-43	2.87723e-43
7.2	1.69716e-46	2.90955e-44	2.90955e-44
7.3	5.02467e-47	2.90955e-44	2.90955e-44
7.4	1.48762e-47	2.94225e-45	2.94225e-45
7.5	4.40432e-48	9.35632e-46	9.35632e-46
7.6	1.30396e-48	9.35632e-46	9.35632e-46
7.7	3.86056e-49	9.46145e-47	9.46145e-47
7.8	1.14297e-49	9.46145e-47	9.46145e-47
7.9	3.38393e-50	9.56776e-48	9.56776e-48
8.0	1.00186e-50	3.04254e-48	3.04254e-48
8.1	2.96615e-51	9.67526e-49	9.67526e-49
8.2	8.78170e-52	9.67526e-49	9.67526e-49
8.3	2.59994e-52	9.78397e-50	9.78397e-50
8.4	7.69750e-53	3.11130e-50	3.11130e-50
8.5	2.27895e-53	9.89390e-51	9.89390e-51
8.6	6.74716e-54	3.14625e-51	3.14625e-51
8.7	1.99759e-54	3.14625e-51	3.14625e-51
8.8	5.91415e-55	3.18161e-52	3.18161e-52
8.9	1.75097e-55	1.01175e-52	1.01175e-52
9.0	5.18399e-56	3.21735e-53	3.21735e-53
9.1	1.53479e-56	1.02312e-53	1.02312e-53
9.2	4.54397e-57	1.02312e-53	1.02312e-53
9.3	1.34531e-57	1.03461e-54	1.03461e-54
9.4	3.98297e-58	3.29006e-55	3.29006e-55
9.5	1.17921e-58	1.04624e-55	1.04624e-55
9.6	3.49123e-59	1.04624e-55	1.04624e-55
9.7	1.03363e-59	1.04624e-55	1.04624e-55
9.8	3.06020e-60	3.36441e-57	3.36441e-57
9.9	9.06014e-61	1.06988e-57	1.06988e-57
10.0	2.68238e-61	3.40221e-58	3.40221e-58
10.1	7.94157e-62	3.40221e-58	3.40221e-58
10.2	2.35121e-62	3.40221e-58	3.40221e-58
10.3	6.96110e-63	1.09406e-59	1.09406e-59
10.4	2.06093e-63	3.47909e-60	3.47909e-60
10.5	6.10168e-64	1.10635e-60	1.10635e-60
10.6	1.80649e-64	1.10635e-60	1.10635e-60
10.7	5.34836e-65	1.10635e-60	1.10635e-60
10.8	1.58346e-65	3.55771e-62	3.55771e-62
10.9	4.68805e-66	1.13135e-62	1.13135e-62
11.0	1.38796e-66	3.59769e-63	3.59769e-63

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x	$A(x)$	P_{v1}	P_{v2}
11.1	4.10926e-67	3.59769e-63	3.59769e-63
11.2	1.21660e-67	3.59769e-63	3.59769e-63
11.3	3.60192e-68	1.15692e-64	1.15692e-64
11.4	1.06640e-68	3.67899e-65	3.67899e-65
11.5	3.15723e-69	1.16992e-65	1.16992e-65
11.6	9.34742e-70	1.16992e-65	1.16992e-65
11.7	2.76743e-70	1.16992e-65	1.16992e-65
11.8	8.19338e-71	3.76213e-67	3.76213e-67
11.9	2.42576e-71	1.19635e-67	1.19635e-67
12.0	7.18182e-72	3.80440e-68	3.80440e-68
12.1	2.12628e-72	3.80440e-68	3.80440e-68
12.2	6.29514e-73	3.80440e-68	3.80440e-68
12.3	1.86377e-73	1.22339e-69	1.22339e-69
12.4	5.51794e-74	3.89037e-70	3.89037e-70
12.5	1.63366e-74	1.23714e-70	1.23714e-70
12.6	4.83669e-75	1.23714e-70	1.23714e-70
12.7	1.43197e-75	1.23714e-70	1.23714e-70
12.8	4.23955e-76	3.97828e-72	3.97828e-72
12.9	1.25518e-76	1.26509e-72	1.26509e-72
13.0	3.71613e-77	4.02298e-73	4.02298e-73
13.1	1.10021e-77	4.02298e-73	4.02298e-73
13.2	3.25734e-78	4.02298e-73	4.02298e-73
13.3	9.64380e-79	1.29368e-74	1.29368e-74
13.4	2.85518e-79	4.11390e-75	4.11390e-75
13.5	8.45317e-80	1.30822e-75	1.30822e-75
13.6	2.50268e-80	1.30822e-75	1.30822e-75
13.7	7.40953e-81	1.30822e-75	1.30822e-75
13.8	2.19370e-81	4.20686e-77	4.20686e-77
13.9	6.49475e-82	1.33778e-77	1.33778e-77
14.0	1.92286e-82	4.25413e-78	4.25413e-78
14.1	5.69290e-83	4.25413e-78	4.25413e-78
14.2	1.68546e-83	4.25413e-78	4.25413e-78
14.3	4.99005e-84	1.36801e-79	1.36801e-79
14.4	1.47737e-84	4.35026e-80	4.35026e-80
14.5	4.37398e-85	1.38338e-80	1.38338e-80
14.6	1.29498e-85	1.38338e-80	1.38338e-80
14.7	3.83396e-86	1.38338e-80	1.38338e-80
14.8	1.13510e-86	4.44857e-82	4.44857e-82
14.9	3.36062e-87	1.41464e-82	1.41464e-82
15.0	9.94958e-88	4.49856e-83	4.49856e-83

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x	$A(x)$	P_{v1}	P_{v2}
15.1	2.94571e-88	4.49856e-83	4.49856e-83
15.2	8.72120e-89	4.49856e-83	4.49856e-83
15.3	2.58203e-89	1.44661e-84	1.44661e-84
15.4	7.64447e-90	4.60021e-85	4.60021e-85
15.5	2.26325e-90	1.46287e-85	1.46287e-85
15.6	6.70068e-91	1.46287e-85	1.46287e-85
15.7	1.98383e-91	1.46287e-85	1.46287e-85
15.8	5.87341e-92	4.70417e-87	4.70417e-87
15.9	1.73891e-92	1.49592e-87	1.49592e-87
16.0	5.14827e-93	4.75703e-88	4.75703e-88
16.1	1.52422e-93	1.51273e-88	1.51273e-88
16.2	4.51266e-94	4.81047e-89	4.81047e-89
16.3	1.33604e-94	1.52973e-89	1.52973e-89
16.4	3.95553e-95	1.52973e-89	1.52973e-89
16.5	1.17109e-95	1.54692e-90	1.54692e-90
16.6	3.46717e-96	4.91918e-91	4.91918e-91
16.7	1.02651e-96	1.56430e-91	1.56430e-91
16.8	3.03911e-97	4.97445e-92	4.97445e-92
16.9	8.99773e-98	4.97445e-92	4.97445e-92
17.0	2.66390e-98	5.03035e-93	5.03035e-93
17.1	7.88686e-99	1.59965e-93	1.59965e-93
17.2	2.33502e-99	5.08687e-94	5.08687e-94
17.3	6.91314e-100	1.61762e-94	1.61762e-94
17.4	2.04673e-100	1.61762e-94	1.61762e-94
17.5	6.05964e-101	1.63580e-95	1.63580e-95
17.6	1.79404e-101	5.20182e-96	5.20182e-96
17.7	5.31151e-102	1.65418e-96	1.65418e-96
17.8	1.57255e-102	5.26027e-97	5.26027e-97
17.9	4.65575e-103	5.26027e-97	5.26027e-97
18.0	1.37840e-103	5.31937e-98	5.31937e-98
18.1	4.08095e-104	1.69156e-98	1.69156e-98
18.2	1.20822e-104	5.37914e-99	5.37914e-99
18.3	3.57711e-105	1.71056e-99	1.71056e-99
18.4	1.05905e-105	1.71056e-99	1.71056e-99
18.5	3.13548e-106	1.72978e-100	1.72978e-100
18.6	9.28302e-107	5.50070e-101	5.50070e-101
18.7	2.74837e-107	1.74922e-101	1.74922e-101
18.8	8.13693e-108	5.56250e-102	5.56250e-102
18.9	2.40905e-108	5.56250e-102	5.56250e-102
19.0	7.13234e-109	5.62500e-103	5.62500e-103

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x	$A(x)$	P_{v1}	P_{v2}
19.1	2.11163e-109	1.78875e-103	1.78875e-103
19.2	6.25178e-110	1.78875e-103	1.78875e-103
19.3	1.85093e-110	1.80884e-104	1.80884e-104
19.4	5.47993e-111	1.80884e-104	1.80884e-104
19.5	1.62241e-111	1.82917e-105	1.82917e-105
19.6	4.80337e-112	5.81674e-106	5.81674e-106
19.7	1.42211e-112	5.81674e-106	5.81674e-106
19.8	4.21034e-113	5.88210e-107	5.88210e-107
19.9	1.24653e-113	5.88210e-107	5.88210e-107
20.0	3.69053e-114	5.94819e-108	5.94819e-108
20.1	1.09263e-114	1.89152e-108	1.89152e-108
20.2	3.23490e-115	1.89152e-108	1.89152e-108
20.3	9.57736e-116	1.91277e-109	1.91277e-109
20.4	2.83551e-116	1.91277e-109	1.91277e-109
20.5	8.39493e-117	1.93427e-110	1.93427e-110
20.6	2.48544e-117	6.15095e-111	6.15095e-111
20.7	7.35849e-118	6.15095e-111	6.15095e-111
20.8	2.17858e-118	6.22006e-112	6.22006e-112
20.9	6.45000e-119	6.22006e-112	6.22006e-112
21.0	1.90961e-119	6.28995e-113	6.28995e-113
21.1	5.65368e-120	2.00020e-113	2.00020e-113
21.2	1.67385e-120	2.00020e-113	2.00020e-113
21.3	4.95567e-121	2.02267e-114	2.02267e-114
21.4	1.46720e-121	2.02267e-114	2.02267e-114
21.5	4.34384e-122	2.04540e-115	2.04540e-115
21.6	1.28606e-122	6.50436e-116	6.50436e-116
21.7	3.80755e-123	6.50436e-116	6.50436e-116
21.8	1.12728e-123	6.57745e-117	6.57745e-117
21.9	3.33747e-124	6.57745e-117	6.57745e-117
22.0	9.88104e-125	6.65135e-118	6.65135e-118
22.1	2.92542e-125	2.11512e-118	2.11512e-118
22.2	8.66112e-126	2.11512e-118	2.11512e-118
22.3	2.56425e-126	2.13889e-119	2.13889e-119
22.4	7.59181e-127	2.13889e-119	2.13889e-119
22.5	2.24766e-127	2.16292e-120	2.16292e-120
22.6	6.65452e-128	6.87808e-121	6.87808e-121
22.7	1.97016e-128	6.87808e-121	6.87808e-121
22.8	5.83295e-129	6.95536e-122	6.95536e-122
22.9	1.72693e-129	6.95536e-122	6.95536e-122
23.0	5.11281e-130	7.03351e-123	7.03351e-123

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x	$A(x)$	P_{v1}	P_{v2}
23.1	1.51372e-130	2.23665e-123	2.23665e-123
23.2	4.48158e-131	2.23665e-123	2.23665e-123
23.3	1.32683e-131	2.26178e-124	2.26178e-124
23.4	3.92828e-132	2.26178e-124	2.26178e-124
23.5	1.16302e-132	2.28720e-125	2.28720e-125
23.6	3.44329e-133	7.27327e-126	7.27327e-126
23.7	1.01943e-133	7.27327e-126	7.27327e-126
23.8	3.01818e-134	7.35499e-127	7.35499e-127
23.9	8.93574e-135	7.35499e-127	7.35499e-127
24.0	2.64555e-135	7.43763e-128	7.43763e-128
24.1	7.83253e-136	2.36516e-128	2.36516e-128
24.2	2.31893e-136	2.36516e-128	2.36516e-128
24.3	6.86552e-137	2.39174e-129	2.39174e-129
24.4	2.03263e-137	2.39174e-129	2.39174e-129
24.5	6.01789e-138	2.41861e-130	2.41861e-130
24.6	1.78168e-138	7.69116e-131	7.69116e-131
24.7	5.27492e-139	7.69116e-131	7.69116e-131
24.8	1.56171e-139	7.77758e-132	7.77758e-132
24.9	4.62368e-140	7.77758e-132	7.77758e-132
25.0	1.36890e-140	7.86497e-133	7.86497e-133
25.1	4.05283e-141	2.50105e-133	2.50105e-133
25.2	1.19990e-141	2.50105e-133	2.50105e-133
25.3	3.55247e-142	2.52916e-134	2.52916e-134
25.4	1.05176e-142	2.52916e-134	2.52916e-134
25.5	3.11388e-143	2.55757e-135	2.55757e-135
25.6	9.21907e-144	8.13307e-136	8.13307e-136
25.7	2.72944e-144	8.13307e-136	8.13307e-136
25.8	8.08088e-145	8.22445e-137	8.22445e-137
25.9	2.39246e-145	8.22445e-137	8.22445e-137
26.0	7.08321e-146	8.31686e-138	8.31686e-138
26.1	2.09708e-146	2.64476e-138	2.64476e-138
26.2	6.20871e-147	2.64476e-138	2.64476e-138
26.3	1.83818e-147	2.67447e-139	2.67447e-139
26.4	5.44218e-148	2.67447e-139	2.67447e-139
26.5	1.61123e-148	2.70452e-140	2.70452e-140
26.6	4.77028e-149	8.60036e-141	8.60036e-141
26.7	1.41231e-149	8.60036e-141	8.60036e-141
26.8	4.18134e-150	8.69699e-142	8.69699e-142
26.9	1.23794e-150	8.69699e-142	8.69699e-142
27.0	3.66511e-151	8.79471e-143	8.79471e-143

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x	$A(x)$	P_{v1}	P_{v2}
27.1	1.08511e-151	2.79671e-143	2.79671e-143
27.2	3.21261e-152	2.79671e-143	2.79671e-143
27.3	9.51138e-153	2.82814e-144	2.82814e-144
27.4	2.81598e-153	2.82814e-144	2.82814e-144
27.5	8.33710e-154	2.85991e-145	2.85991e-145
27.6	2.46832e-154	9.09450e-146	9.09450e-146
27.7	7.30780e-155	9.09450e-146	9.09450e-146
27.8	2.16358e-155	9.19669e-147	9.19669e-147
27.9	6.40557e-156	9.19669e-147	9.19669e-147
28.0	1.89646e-156	9.30002e-148	9.30002e-148
28.1	5.61473e-157	2.95740e-148	2.95740e-148
28.2	1.66232e-157	2.95740e-148	2.95740e-148
28.3	4.92153e-158	2.99063e-149	2.99063e-149
28.4	1.45709e-158	2.99063e-149	2.99063e-149
28.5	4.31392e-159	3.02423e-150	3.02423e-150
28.6	1.27720e-159	9.61704e-151	9.61704e-151
28.7	3.78132e-160	9.61704e-151	9.61704e-151
28.8	1.11951e-160	9.72510e-152	9.72510e-152
28.9	3.31447e-161	9.72510e-152	9.72510e-152
29.0	9.81297e-162	9.83437e-153	9.83437e-153
29.1	2.90527e-162	3.12732e-153	3.12732e-153
29.2	8.60145e-163	3.12732e-153	3.12732e-153
29.3	2.54658e-163	3.16246e-154	3.16246e-154
29.4	7.53951e-164	3.16246e-154	3.16246e-154
29.5	2.23218e-164	3.19799e-155	3.19799e-155
29.6	6.60867e-165	1.01696e-155	1.01696e-155
29.7	1.95659e-165	1.01696e-155	1.01696e-155
29.8	5.79276e-166	1.02839e-156	1.02839e-156
29.9	1.71503e-166	1.02839e-156	1.02839e-156
30.0	5.07758e-167	1.03994e-157	1.03994e-157
30.1	1.50329e-167	3.30701e-158	3.30701e-158
30.2	4.45070e-168	3.30701e-158	3.30701e-158
30.3	1.31769e-168	3.34416e-159	3.34416e-159
30.4	3.90121e-169	3.34416e-159	3.34416e-159
30.5	1.15501e-169	3.38174e-160	3.38174e-160
30.6	3.41957e-170	1.07539e-160	1.07539e-160
30.7	1.01241e-170	1.07539e-160	1.07539e-160
30.8	2.99739e-171	1.08747e-161	1.08747e-161
30.9	8.87418e-172	1.08747e-161	1.08747e-161
31.0	2.62733e-172	1.09969e-162	1.09969e-162

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x	$A(x)$	P_{v1}	P_{v2}
31.1	7.77857e-173	3.49701e-163	3.49701e-163
31.2	2.30295e-173	3.49701e-163	3.49701e-163
31.3	6.81822e-174	3.53631e-164	3.53631e-164
31.4	2.01863e-174	3.53631e-164	3.53631e-164
31.5	5.97644e-175	3.57604e-165	3.57604e-165
31.6	1.76941e-175	1.13718e-165	1.13718e-165
31.7	5.23858e-176	1.13718e-165	1.13718e-165
31.8	1.55096e-176	1.14996e-166	1.14996e-166
31.9	4.59182e-177	1.14996e-166	1.14996e-166
32.0	1.35947e-177	1.16288e-167	1.16288e-167
32.1	4.02491e-178	3.69794e-168	3.69794e-168
32.2	1.19163e-178	1.17594e-168	1.17594e-168
32.3	3.52799e-179	1.17594e-168	1.17594e-168
32.4	1.04451e-179	1.18916e-169	1.18916e-169
32.5	3.09242e-180	3.78151e-170	3.78151e-170
32.6	9.15556e-181	1.20252e-170	1.20252e-170
32.7	2.71063e-181	3.82399e-171	3.82399e-171
32.8	8.02521e-182	3.82399e-171	3.82399e-171
32.9	2.37598e-182	3.86696e-172	3.86696e-172
33.0	7.03441e-183	1.22969e-172	1.22969e-172
33.1	2.08264e-183	3.91041e-173	3.91041e-173
33.2	6.16593e-184	1.24351e-173	1.24351e-173
33.3	1.82551e-184	1.24351e-173	1.24351e-173
33.4	5.40468e-185	1.25748e-174	1.25748e-174
33.5	1.60013e-185	3.99878e-175	3.99878e-175
33.6	4.73742e-186	1.27161e-175	1.27161e-175
33.7	1.40258e-186	4.04371e-176	4.04371e-176
33.8	4.15253e-187	4.04371e-176	4.04371e-176
33.9	1.22942e-187	4.08914e-177	4.08914e-177
34.0	3.63986e-188	1.30034e-177	1.30034e-177
34.1	1.07763e-188	4.13509e-178	4.13509e-178
34.2	3.19048e-189	1.31495e-178	1.31495e-178
34.3	9.44586e-190	1.31495e-178	1.31495e-178
34.4	2.79658e-190	1.32973e-179	1.32973e-179
34.5	8.27967e-191	4.22853e-180	4.22853e-180
34.6	2.45131e-191	1.34467e-180	1.34467e-180
34.7	7.25745e-192	4.27604e-181	4.27604e-181
34.8	2.14867e-192	4.27604e-181	4.27604e-181
34.9	6.36144e-193	4.32409e-182	4.32409e-182
35.0	1.88339e-193	1.37506e-182	1.37506e-182

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x	$A(x)$	P_{v1}	P_{v2}
35.1	5.57605e-194	4.37267e-183	4.37267e-183
35.2	1.65087e-194	1.39051e-183	1.39051e-183
35.3	4.88763e-195	1.39051e-183	1.39051e-183
35.4	1.44705e-195	1.40613e-184	1.40613e-184
35.5	4.28420e-196	4.47149e-185	4.47149e-185
35.6	1.26840e-196	1.42193e-185	1.42193e-185
35.7	3.75527e-197	4.52173e-186	4.52173e-186
35.8	1.11180e-197	4.52173e-186	4.52173e-186
35.9	3.29164e-198	4.57253e-187	4.57253e-187
36.0	9.74536e-199	1.45406e-187	1.45406e-187
36.1	2.88525e-199	4.62391e-188	4.62391e-188
36.2	8.54219e-200	1.47040e-188	1.47040e-188
36.3	2.52904e-200	1.47040e-188	1.47040e-188
36.4	7.48757e-201	1.48692e-189	1.48692e-189
36.5	2.21680e-201	4.72840e-190	4.72840e-190
36.6	6.56315e-202	1.50363e-190	1.50363e-190
36.7	1.94311e-202	4.78153e-191	4.78153e-191
36.8	5.75286e-203	4.78153e-191	4.78153e-191
36.9	1.70321e-203	4.83525e-192	4.83525e-192
37.0	5.04260e-204	1.53761e-192	1.53761e-192
37.1	1.49293e-204	4.88958e-193	4.88958e-193
37.2	4.42004e-205	1.55488e-193	1.55488e-193
37.3	1.30861e-205	1.55488e-193	1.55488e-193
37.4	3.87434e-206	1.57235e-194	1.57235e-194
37.5	1.14705e-206	5.00008e-195	5.00008e-195
37.6	3.39601e-207	1.59002e-195	1.59002e-195
37.7	1.00544e-207	5.05626e-196	5.05626e-196
37.8	2.97674e-208	5.05626e-196	5.05626e-196
37.9	8.81304e-209	5.11307e-197	5.11307e-197
38.0	2.60923e-209	1.62595e-197	1.62595e-197
38.1	7.72498e-210	5.17052e-198	5.17052e-198
38.2	2.28709e-210	1.64422e-198	1.64422e-198
38.3	6.77125e-211	1.64422e-198	1.64422e-198
38.4	2.00472e-211	1.64422e-198	1.64422e-198
38.5	5.93526e-212	5.28736e-200	5.28736e-200
38.6	1.75722e-212	1.68138e-200	1.68138e-200
38.7	5.20249e-213	5.34677e-201	5.34677e-201
38.8	1.54027e-213	5.34677e-201	5.34677e-201
38.9	4.56019e-214	5.34677e-201	5.34677e-201
39.0	1.35011e-214	1.71937e-202	1.71937e-202

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x	$A(x)$	P_{v1}	P_{v2}
39.1	3.99718e-215	5.46760e-203	5.46760e-203
39.2	1.18342e-215	1.73869e-203	1.73869e-203
39.3	3.50369e-216	1.73869e-203	1.73869e-203
39.4	1.03732e-216	1.73869e-203	1.73869e-203
39.5	3.07112e-217	5.59115e-205	5.59115e-205
39.6	9.09248e-218	1.77798e-205	1.77798e-205
39.7	2.69196e-218	5.65397e-206	5.65397e-206
39.8	7.96992e-219	5.65397e-206	5.65397e-206
39.9	2.35961e-219	5.65397e-206	5.65397e-206
40.0	6.98595e-220	1.81816e-207	1.81816e-207
40.1	2.06829e-220	5.78174e-208	5.78174e-208
40.2	6.12346e-221	1.83859e-208	1.83859e-208
40.3	1.81294e-221	1.83859e-208	1.83859e-208
40.4	5.36745e-222	1.83859e-208	1.83859e-208
40.5	1.58911e-222	5.91240e-210	5.91240e-210
40.6	4.70478e-223	1.88014e-210	1.88014e-210
40.7	1.39292e-223	5.97883e-211	5.97883e-211
40.8	4.12392e-224	5.97883e-211	5.97883e-211
40.9	1.22095e-224	5.97883e-211	5.97883e-211
41.0	3.61478e-225	1.92263e-212	1.92263e-212
41.1	1.07021e-225	6.11394e-213	6.11394e-213
41.2	3.16850e-226	1.94423e-213	1.94423e-213
41.3	9.38078e-227	1.94423e-213	1.94423e-213
41.4	2.77731e-227	1.94423e-213	1.94423e-213
41.5	8.22263e-228	6.25210e-215	6.25210e-215
41.6	2.43442e-228	1.98816e-215	1.98816e-215
41.7	7.20745e-229	6.32235e-216	6.32235e-216
41.8	2.13387e-229	6.32235e-216	6.32235e-216
41.9	6.31762e-230	6.32235e-216	6.32235e-216
42.0	1.87042e-230	2.03309e-217	2.03309e-217
42.1	5.53764e-231	6.46522e-218	6.46522e-218
42.2	1.63950e-231	2.05594e-218	2.05594e-218
42.3	4.85396e-232	2.05594e-218	2.05594e-218
42.4	1.43708e-232	2.05594e-218	2.05594e-218
42.5	4.25468e-233	6.61133e-220	6.61133e-220
42.6	1.25966e-233	2.10240e-220	2.10240e-220
42.7	3.72940e-234	6.68561e-221	6.68561e-221
42.8	1.10414e-234	6.68561e-221	6.68561e-221
42.9	3.26896e-235	6.68561e-221	6.68561e-221
43.0	9.67823e-236	2.14991e-222	2.14991e-222

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x	$A(x)$	P_{v1}	P_{v2}
43.1	2.86537e-236	6.83669e-223	6.83669e-223
43.2	8.48334e-237	2.17406e-223	2.17406e-223
43.3	2.51161e-237	2.17406e-223	2.17406e-223
43.4	7.43598e-238	2.17406e-223	2.17406e-223
43.5	2.20153e-238	6.99119e-225	6.99119e-225
43.6	6.51793e-239	2.22319e-225	2.22319e-225
43.7	1.92973e-239	7.06974e-226	7.06974e-226
43.8	5.71322e-240	7.06974e-226	7.06974e-226
43.9	1.69148e-240	7.06974e-226	7.06974e-226
44.0	5.00786e-241	2.27343e-227	2.27343e-227
44.1	1.48265e-241	7.22950e-228	7.22950e-228
44.2	4.38959e-242	2.29898e-228	2.29898e-228
44.3	1.29960e-242	2.29898e-228	2.29898e-228
44.4	3.84765e-243	2.29898e-228	2.29898e-228
44.5	1.13915e-243	7.39287e-230	7.39287e-230
44.6	3.37261e-244	2.35093e-230	2.35093e-230
44.7	9.98510e-245	7.47594e-231	7.47594e-231
44.8	2.95623e-245	7.47594e-231	7.47594e-231
44.9	8.75233e-246	7.47594e-231	7.47594e-231
45.0	2.59125e-246	2.40406e-232	2.40406e-232
45.1	7.67176e-247	7.64488e-233	7.64488e-233
45.2	2.27133e-247	2.43107e-233	2.43107e-233
45.3	6.72460e-248	2.43107e-233	2.43107e-233
45.4	1.99091e-248	2.43107e-233	2.43107e-233
45.5	5.89438e-249	7.81764e-235	7.81764e-235
45.6	1.74511e-249	2.48600e-235	2.48600e-235
45.7	5.16665e-250	7.90548e-236	7.90548e-236
45.8	1.52966e-250	7.90548e-236	7.90548e-236
45.9	4.52877e-251	7.90548e-236	7.90548e-236
46.0	1.34081e-251	2.54218e-237	2.54218e-237
46.1	3.96965e-252	8.08413e-238	8.08413e-238
46.2	1.17527e-252	2.57075e-238	2.57075e-238
46.3	3.47955e-253	2.57075e-238	2.57075e-238
46.4	1.03017e-253	2.57075e-238	2.57075e-238
46.5	3.04996e-254	8.26681e-240	8.26681e-240
46.6	9.02985e-255	2.62884e-240	2.62884e-240
46.7	2.67341e-255	8.35970e-241	8.35970e-241
46.8	7.91501e-256	8.35970e-241	8.35970e-241
46.9	2.34335e-256	8.35970e-241	8.35970e-241
47.0	6.93782e-257	2.68825e-242	2.68825e-242

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x	$A(x)$	P_{v1}	P_{v2}
47.1	2.05404e-257	8.54861e-243	8.54861e-243
47.2	6.08127e-258	2.71845e-243	2.71845e-243
47.3	1.80045e-258	2.71845e-243	2.71845e-243
47.4	5.33047e-259	2.71845e-243	2.71845e-243
47.5	1.57816e-259	8.74179e-245	8.74179e-245
47.6	4.67237e-260	2.77988e-245	2.77988e-245
47.7	1.38332e-260	8.84001e-246	8.84001e-246
47.8	4.09551e-261	8.84001e-246	8.84001e-246
47.9	1.21253e-261	8.84001e-246	8.84001e-246
48.0	3.58988e-262	2.84270e-247	2.84270e-247
48.1	1.06283e-262	9.03978e-248	9.03978e-248
48.2	3.14667e-263	2.87464e-248	2.87464e-248
48.3	9.31616e-264	2.87464e-248	2.87464e-248
48.4	2.75818e-264	2.87464e-248	2.87464e-248
48.5	8.16598e-265	9.24406e-250	9.24406e-250
48.6	2.41765e-265	2.93961e-250	2.93961e-250
48.7	7.15780e-266	9.34793e-251	9.34793e-251
48.8	2.11917e-266	9.34793e-251	9.34793e-251
48.9	6.27409e-267	9.34793e-251	9.34793e-251
49.0	1.85753e-267	3.00603e-252	3.00603e-252
49.1	5.49949e-268	9.55917e-253	9.55917e-253
49.2	1.62820e-268	3.03981e-253	3.03981e-253
49.3	4.82052e-269	3.03981e-253	3.03981e-253
49.4	1.42718e-269	3.03981e-253	3.03981e-253
49.5	4.22537e-270	9.77519e-255	9.77519e-255
49.6	1.25098e-270	3.10850e-255	3.10850e-255
49.7	3.70371e-271	9.88502e-256	9.88502e-256
49.8	1.09653e-271	9.88502e-256	9.88502e-256
49.9	3.24644e-272	9.88502e-256	9.88502e-256
50.0	9.61155e-273	3.17875e-257	3.17875e-257
50.1	2.84563e-273	1.01084e-257	1.01084e-257
50.2	8.42490e-274	3.21447e-258	3.21447e-258
50.3	2.49431e-274	3.21447e-258	3.21447e-258
50.4	7.38476e-275	3.21447e-258	3.21447e-258
50.5	2.18636e-275	1.03368e-259	1.03368e-259
50.6	6.47303e-276	3.28711e-260	3.28711e-260
50.7	1.91643e-276	1.04530e-260	1.04530e-260
50.8	5.67386e-277	1.04530e-260	1.04530e-260
50.9	1.67983e-277	1.04530e-260	1.04530e-260
51.0	4.97336e-278	3.36139e-262	3.36139e-262

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x	$A(x)$	P_{v1}	P_{v2}
51.1	1.47243e-278	1.06892e-262	1.06892e-262
51.2	4.35935e-279	3.39916e-263	3.39916e-263
51.3	1.29065e-279	3.39916e-263	3.39916e-263
51.4	3.82114e-280	3.39916e-263	3.39916e-263
51.5	1.13130e-280	1.09307e-264	1.09307e-264
51.6	3.34938e-281	3.47597e-265	3.47597e-265
51.7	9.91631e-282	1.10536e-265	1.10536e-265
51.8	2.93586e-282	1.10536e-265	1.10536e-265
51.9	8.69203e-283	1.10536e-265	1.10536e-265
52.0	2.57340e-283	3.55452e-267	3.55452e-267
52.1	7.61891e-284	1.13034e-267	1.13034e-267
52.2	2.25569e-284	3.59446e-268	3.59446e-268
52.3	6.67827e-285	3.59446e-268	3.59446e-268
52.4	1.97720e-285	3.59446e-268	3.59446e-268
52.5	5.85377e-286	1.15588e-269	1.15588e-269
52.6	1.73309e-286	3.67569e-270	3.67569e-270
52.7	5.13106e-287	1.16887e-270	1.16887e-270
52.8	1.51912e-287	1.16887e-270	1.16887e-270
52.9	4.49757e-288	1.16887e-270	1.16887e-270
53.0	1.33157e-288	3.75875e-272	3.75875e-272
53.1	3.94230e-289	1.19528e-272	1.19528e-272
53.2	1.16717e-289	3.80098e-273	3.80098e-273
53.3	3.45558e-290	3.80098e-273	3.80098e-273
53.4	1.02307e-290	3.80098e-273	3.80098e-273
53.5	3.02895e-291	1.22229e-274	1.22229e-274
53.6	8.96764e-292	3.88688e-275	3.88688e-275
53.7	2.65500e-292	1.23602e-275	1.23602e-275
53.8	7.86049e-293	1.23602e-275	1.23602e-275
53.9	2.32721e-293	1.23602e-275	1.23602e-275
54.0	6.89002e-294	3.97471e-277	3.97471e-277
54.1	2.03989e-294	1.26396e-277	1.26396e-277
54.2	6.03938e-295	4.01937e-278	4.01937e-278
54.3	1.78804e-295	4.01937e-278	4.01937e-278
54.4	5.29375e-296	4.01937e-278	4.01937e-278
54.5	1.56729e-296	1.29252e-279	1.29252e-279
54.6	4.64018e-297	4.11020e-280	4.11020e-280
54.7	1.37379e-297	1.30704e-280	1.30704e-280
54.8	4.06730e-298	1.30704e-280	1.30704e-280
54.9	1.20418e-298	1.30704e-280	1.30704e-280
55.0	3.56515e-299	4.20309e-282	4.20309e-282

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x	$A(x)$	P_{v1}	P_{v2}
55.1	1.05551e-299	1.33658e-282	1.33658e-282
55.2	3.12499e-300	4.25031e-283	4.25031e-283
55.3	9.25198e-301	4.25031e-283	4.25031e-283
55.4	2.73918e-301	4.25031e-283	4.25031e-283
55.5	8.10972e-302	1.36678e-284	1.36678e-284
55.6	2.40100e-302	4.34636e-285	4.34636e-285
55.7	7.10849e-303	1.38214e-285	1.38214e-285
55.8	2.10457e-303	1.38214e-285	1.38214e-285
55.9	6.23087e-304	1.38214e-285	1.38214e-285
56.0	1.84474e-304	4.44458e-287	4.44458e-287
56.1	5.46160e-305	1.41337e-287	1.41337e-287
56.2	1.61698e-305	4.49452e-288	4.49452e-288
56.3	4.78731e-306	4.49452e-288	4.49452e-288
56.4	1.41735e-306	4.49452e-288	4.49452e-288
56.5	4.19627e-307	1.44531e-289	1.44531e-289
56.6	1.24236e-307	4.59609e-290	4.59609e-290
56.7	3.67818e-308	1.46155e-290	1.46155e-290
56.8	1.08896e-308	1.46155e-290	1.46155e-290
56.9	3.22408e-309	1.46155e-290	1.46155e-290
57.0	9.54626e-310	4.69995e-292	4.69995e-292
57.1	2.82546e-310	1.49458e-292	1.49458e-292
57.2	8.38551e-311	4.75276e-293	4.75276e-293
57.3	2.47848e-311	4.75276e-293	4.75276e-293
57.4	7.43543e-312	4.75276e-293	4.75276e-293
57.5	2.06540e-312	1.52835e-294	1.52835e-294
57.6	8.26159e-313	4.86016e-295	4.86016e-295
57.7	0.00000e+00	1.54553e-295	1.54553e-295
57.8	0.00000e+00	1.54553e-295	1.54553e-295
57.9	0.00000e+00	1.54553e-295	1.54553e-295
58.0	0.00000e+00	4.96999e-297	4.96999e-297
58.1	0.00000e+00	1.58045e-297	1.58045e-297
58.2	0.00000e+00	5.02583e-298	5.02583e-298
58.3	0.00000e+00	5.02583e-298	5.02583e-298
58.4	0.00000e+00	5.02583e-298	5.02583e-298
58.5	0.00000e+00	1.61617e-299	1.61617e-299
58.6	0.00000e+00	5.13940e-300	5.13940e-300
58.7	0.00000e+00	1.63433e-300	1.63433e-300
58.8	0.00000e+00	1.63433e-300	1.63433e-300
58.9	0.00000e+00	1.63433e-300	1.63433e-300
59.0	0.00000e+00	5.00000e-302	5.00000e-302

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x	$A(x)$	P_{v1}	P_{v2}
59.1	0.00000e+00	1.00000e-302	1.00000e-302
59.2	0.00000e+00	5.00000e-303	5.00000e-303
59.3	0.00000e+00	5.00000e-303	5.00000e-303
59.4	0.00000e+00	5.00000e-303	5.00000e-303
59.5	0.00000e+00	1.00000e-304	1.00000e-304
59.6	0.00000e+00	5.00000e-305	5.00000e-305
59.7	0.00000e+00	1.00000e-305	1.00000e-305
59.8	0.00000e+00	1.00000e-305	1.00000e-305
59.9	0.00000e+00	1.00000e-305	1.00000e-305
60.0	0.00000e+00	5.00000e-307	5.00000e-307
60.1	0.00000e+00	1.00000e-307	1.00000e-307
60.2	0.00000e+00	7.00000e-308	7.00000e-308
60.3	0.00000e+00	7.00000e-308	7.00000e-308
60.4	0.00000e+00	7.00000e-308	7.00000e-308
60.5	0.00000e+00	0.00000e+00	0.00000e+00
60.6	0.00000e+00	0.00000e+00	0.00000e+00
60.7	0.00000e+00	0.00000e+00	0.00000e+00
60.8	0.00000e+00	0.00000e+00	0.00000e+00
60.9	0.00000e+00	0.00000e+00	0.00000e+00
61.0	0.00000e+00	0.00000e+00	0.00000e+00
61.1	0.00000e+00	0.00000e+00	0.00000e+00
61.2	0.00000e+00	0.00000e+00	0.00000e+00
61.3	0.00000e+00	0.00000e+00	0.00000e+00
61.4	0.00000e+00	0.00000e+00	0.00000e+00
61.5	0.00000e+00	0.00000e+00	0.00000e+00
61.6	0.00000e+00	0.00000e+00	0.00000e+00
61.7	0.00000e+00	0.00000e+00	0.00000e+00
61.8	0.00000e+00	0.00000e+00	0.00000e+00
61.9	0.00000e+00	0.00000e+00	0.00000e+00
62.0	0.00000e+00	0.00000e+00	0.00000e+00
62.1	0.00000e+00	0.00000e+00	0.00000e+00
62.2	0.00000e+00	0.00000e+00	0.00000e+00
62.3	0.00000e+00	0.00000e+00	0.00000e+00
62.4	0.00000e+00	0.00000e+00	0.00000e+00
62.5	0.00000e+00	0.00000e+00	0.00000e+00
62.6	0.00000e+00	0.00000e+00	0.00000e+00
62.7	0.00000e+00	0.00000e+00	0.00000e+00
62.8	0.00000e+00	0.00000e+00	0.00000e+00
62.9	0.00000e+00	0.00000e+00	0.00000e+00
63.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
63.1	0.00000e+00	0.00000e+00	0.00000e+00
63.2	0.00000e+00	0.00000e+00	0.00000e+00
63.3	0.00000e+00	0.00000e+00	0.00000e+00
63.4	0.00000e+00	0.00000e+00	0.00000e+00
63.5	0.00000e+00	0.00000e+00	0.00000e+00
63.6	0.00000e+00	0.00000e+00	0.00000e+00
63.7	0.00000e+00	0.00000e+00	0.00000e+00
63.8	0.00000e+00	0.00000e+00	0.00000e+00
63.9	0.00000e+00	0.00000e+00	0.00000e+00
64.0	0.00000e+00	0.00000e+00	0.00000e+00
64.1	0.00000e+00	0.00000e+00	0.00000e+00
64.2	0.00000e+00	0.00000e+00	0.00000e+00
64.3	0.00000e+00	0.00000e+00	0.00000e+00
64.4	0.00000e+00	0.00000e+00	0.00000e+00
64.5	0.00000e+00	0.00000e+00	0.00000e+00
64.6	0.00000e+00	0.00000e+00	0.00000e+00
64.7	0.00000e+00	0.00000e+00	0.00000e+00
64.8	0.00000e+00	0.00000e+00	0.00000e+00
64.9	0.00000e+00	0.00000e+00	0.00000e+00
65.0	0.00000e+00	0.00000e+00	0.00000e+00
65.1	0.00000e+00	0.00000e+00	0.00000e+00
65.2	0.00000e+00	0.00000e+00	0.00000e+00
65.3	0.00000e+00	0.00000e+00	0.00000e+00
65.4	0.00000e+00	0.00000e+00	0.00000e+00
65.5	0.00000e+00	0.00000e+00	0.00000e+00
65.6	0.00000e+00	0.00000e+00	0.00000e+00
65.7	0.00000e+00	0.00000e+00	0.00000e+00
65.8	0.00000e+00	0.00000e+00	0.00000e+00
65.9	0.00000e+00	0.00000e+00	0.00000e+00
66.0	0.00000e+00	0.00000e+00	0.00000e+00
66.1	0.00000e+00	0.00000e+00	0.00000e+00
66.2	0.00000e+00	0.00000e+00	0.00000e+00
66.3	0.00000e+00	0.00000e+00	0.00000e+00
66.4	0.00000e+00	0.00000e+00	0.00000e+00
66.5	0.00000e+00	0.00000e+00	0.00000e+00
66.6	0.00000e+00	0.00000e+00	0.00000e+00
66.7	0.00000e+00	0.00000e+00	0.00000e+00
66.8	0.00000e+00	0.00000e+00	0.00000e+00
66.9	0.00000e+00	0.00000e+00	0.00000e+00
67.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
67.1	0.00000e+00	0.00000e+00	0.00000e+00
67.2	0.00000e+00	0.00000e+00	0.00000e+00
67.3	0.00000e+00	0.00000e+00	0.00000e+00
67.4	0.00000e+00	0.00000e+00	0.00000e+00
67.5	0.00000e+00	0.00000e+00	0.00000e+00
67.6	0.00000e+00	0.00000e+00	0.00000e+00
67.7	0.00000e+00	0.00000e+00	0.00000e+00
67.8	0.00000e+00	0.00000e+00	0.00000e+00
67.9	0.00000e+00	0.00000e+00	0.00000e+00
68.0	0.00000e+00	0.00000e+00	0.00000e+00
68.1	0.00000e+00	0.00000e+00	0.00000e+00
68.2	0.00000e+00	0.00000e+00	0.00000e+00
68.3	0.00000e+00	0.00000e+00	0.00000e+00
68.4	0.00000e+00	0.00000e+00	0.00000e+00
68.5	0.00000e+00	0.00000e+00	0.00000e+00
68.6	0.00000e+00	0.00000e+00	0.00000e+00
68.7	0.00000e+00	0.00000e+00	0.00000e+00
68.8	0.00000e+00	0.00000e+00	0.00000e+00
68.9	0.00000e+00	0.00000e+00	0.00000e+00
69.0	0.00000e+00	0.00000e+00	0.00000e+00
69.1	0.00000e+00	0.00000e+00	0.00000e+00
69.2	0.00000e+00	0.00000e+00	0.00000e+00
69.3	0.00000e+00	0.00000e+00	0.00000e+00
69.4	0.00000e+00	0.00000e+00	0.00000e+00
69.5	0.00000e+00	0.00000e+00	0.00000e+00
69.6	0.00000e+00	0.00000e+00	0.00000e+00
69.7	0.00000e+00	0.00000e+00	0.00000e+00
69.8	0.00000e+00	0.00000e+00	0.00000e+00
69.9	0.00000e+00	0.00000e+00	0.00000e+00
70.0	0.00000e+00	0.00000e+00	0.00000e+00
70.1	0.00000e+00	0.00000e+00	0.00000e+00
70.2	0.00000e+00	0.00000e+00	0.00000e+00
70.3	0.00000e+00	0.00000e+00	0.00000e+00
70.4	0.00000e+00	0.00000e+00	0.00000e+00
70.5	0.00000e+00	0.00000e+00	0.00000e+00
70.6	0.00000e+00	0.00000e+00	0.00000e+00
70.7	0.00000e+00	0.00000e+00	0.00000e+00
70.8	0.00000e+00	0.00000e+00	0.00000e+00
70.9	0.00000e+00	0.00000e+00	0.00000e+00
71.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
71.1	0.00000e+00	0.00000e+00	0.00000e+00
71.2	0.00000e+00	0.00000e+00	0.00000e+00
71.3	0.00000e+00	0.00000e+00	0.00000e+00
71.4	0.00000e+00	0.00000e+00	0.00000e+00
71.5	0.00000e+00	0.00000e+00	0.00000e+00
71.6	0.00000e+00	0.00000e+00	0.00000e+00
71.7	0.00000e+00	0.00000e+00	0.00000e+00
71.8	0.00000e+00	0.00000e+00	0.00000e+00
71.9	0.00000e+00	0.00000e+00	0.00000e+00
72.0	0.00000e+00	0.00000e+00	0.00000e+00
72.1	0.00000e+00	0.00000e+00	0.00000e+00
72.2	0.00000e+00	0.00000e+00	0.00000e+00
72.3	0.00000e+00	0.00000e+00	0.00000e+00
72.4	0.00000e+00	0.00000e+00	0.00000e+00
72.5	0.00000e+00	0.00000e+00	0.00000e+00
72.6	0.00000e+00	0.00000e+00	0.00000e+00
72.7	0.00000e+00	0.00000e+00	0.00000e+00
72.8	0.00000e+00	0.00000e+00	0.00000e+00
72.9	0.00000e+00	0.00000e+00	0.00000e+00
73.0	0.00000e+00	0.00000e+00	0.00000e+00
73.1	0.00000e+00	0.00000e+00	0.00000e+00
73.2	0.00000e+00	0.00000e+00	0.00000e+00
73.3	0.00000e+00	0.00000e+00	0.00000e+00
73.4	0.00000e+00	0.00000e+00	0.00000e+00
73.5	0.00000e+00	0.00000e+00	0.00000e+00
73.6	0.00000e+00	0.00000e+00	0.00000e+00
73.7	0.00000e+00	0.00000e+00	0.00000e+00
73.8	0.00000e+00	0.00000e+00	0.00000e+00
73.9	0.00000e+00	0.00000e+00	0.00000e+00
74.0	0.00000e+00	0.00000e+00	0.00000e+00
74.1	0.00000e+00	0.00000e+00	0.00000e+00
74.2	0.00000e+00	0.00000e+00	0.00000e+00
74.3	0.00000e+00	0.00000e+00	0.00000e+00
74.4	0.00000e+00	0.00000e+00	0.00000e+00
74.5	0.00000e+00	0.00000e+00	0.00000e+00
74.6	0.00000e+00	0.00000e+00	0.00000e+00
74.7	0.00000e+00	0.00000e+00	0.00000e+00
74.8	0.00000e+00	0.00000e+00	0.00000e+00
74.9	0.00000e+00	0.00000e+00	0.00000e+00
75.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
75.1	0.00000e+00	0.00000e+00	0.00000e+00
75.2	0.00000e+00	0.00000e+00	0.00000e+00
75.3	0.00000e+00	0.00000e+00	0.00000e+00
75.4	0.00000e+00	0.00000e+00	0.00000e+00
75.5	0.00000e+00	0.00000e+00	0.00000e+00
75.6	0.00000e+00	0.00000e+00	0.00000e+00
75.7	0.00000e+00	0.00000e+00	0.00000e+00
75.8	0.00000e+00	0.00000e+00	0.00000e+00
75.9	0.00000e+00	0.00000e+00	0.00000e+00
76.0	0.00000e+00	0.00000e+00	0.00000e+00
76.1	0.00000e+00	0.00000e+00	0.00000e+00
76.2	0.00000e+00	0.00000e+00	0.00000e+00
76.3	0.00000e+00	0.00000e+00	0.00000e+00
76.4	0.00000e+00	0.00000e+00	0.00000e+00
76.5	0.00000e+00	0.00000e+00	0.00000e+00
76.6	0.00000e+00	0.00000e+00	0.00000e+00
76.7	0.00000e+00	0.00000e+00	0.00000e+00
76.8	0.00000e+00	0.00000e+00	0.00000e+00
76.9	0.00000e+00	0.00000e+00	0.00000e+00
77.0	0.00000e+00	0.00000e+00	0.00000e+00
77.1	0.00000e+00	0.00000e+00	0.00000e+00
77.2	0.00000e+00	0.00000e+00	0.00000e+00
77.3	0.00000e+00	0.00000e+00	0.00000e+00
77.4	0.00000e+00	0.00000e+00	0.00000e+00
77.5	0.00000e+00	0.00000e+00	0.00000e+00
77.6	0.00000e+00	0.00000e+00	0.00000e+00
77.7	0.00000e+00	0.00000e+00	0.00000e+00
77.8	0.00000e+00	0.00000e+00	0.00000e+00
77.9	0.00000e+00	0.00000e+00	0.00000e+00
78.0	0.00000e+00	0.00000e+00	0.00000e+00
78.1	0.00000e+00	0.00000e+00	0.00000e+00
78.2	0.00000e+00	0.00000e+00	0.00000e+00
78.3	0.00000e+00	0.00000e+00	0.00000e+00
78.4	0.00000e+00	0.00000e+00	0.00000e+00
78.5	0.00000e+00	0.00000e+00	0.00000e+00
78.6	0.00000e+00	0.00000e+00	0.00000e+00
78.7	0.00000e+00	0.00000e+00	0.00000e+00
78.8	0.00000e+00	0.00000e+00	0.00000e+00
78.9	0.00000e+00	0.00000e+00	0.00000e+00
79.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
79.1	0.00000e+00	0.00000e+00	0.00000e+00
79.2	0.00000e+00	0.00000e+00	0.00000e+00
79.3	0.00000e+00	0.00000e+00	0.00000e+00
79.4	0.00000e+00	0.00000e+00	0.00000e+00
79.5	0.00000e+00	0.00000e+00	0.00000e+00
79.6	0.00000e+00	0.00000e+00	0.00000e+00
79.7	0.00000e+00	0.00000e+00	0.00000e+00
79.8	0.00000e+00	0.00000e+00	0.00000e+00
79.9	0.00000e+00	0.00000e+00	0.00000e+00
80.0	0.00000e+00	0.00000e+00	0.00000e+00
80.1	0.00000e+00	0.00000e+00	0.00000e+00
80.2	0.00000e+00	0.00000e+00	0.00000e+00
80.3	0.00000e+00	0.00000e+00	0.00000e+00
80.4	0.00000e+00	0.00000e+00	0.00000e+00
80.5	0.00000e+00	0.00000e+00	0.00000e+00
80.6	0.00000e+00	0.00000e+00	0.00000e+00
80.7	0.00000e+00	0.00000e+00	0.00000e+00
80.8	0.00000e+00	0.00000e+00	0.00000e+00
80.9	0.00000e+00	0.00000e+00	0.00000e+00
81.0	0.00000e+00	0.00000e+00	0.00000e+00
81.1	0.00000e+00	0.00000e+00	0.00000e+00
81.2	0.00000e+00	0.00000e+00	0.00000e+00
81.3	0.00000e+00	0.00000e+00	0.00000e+00
81.4	0.00000e+00	0.00000e+00	0.00000e+00
81.5	0.00000e+00	0.00000e+00	0.00000e+00
81.6	0.00000e+00	0.00000e+00	0.00000e+00
81.7	0.00000e+00	0.00000e+00	0.00000e+00
81.8	0.00000e+00	0.00000e+00	0.00000e+00
81.9	0.00000e+00	0.00000e+00	0.00000e+00
82.0	0.00000e+00	0.00000e+00	0.00000e+00
82.1	0.00000e+00	0.00000e+00	0.00000e+00
82.2	0.00000e+00	0.00000e+00	0.00000e+00
82.3	0.00000e+00	0.00000e+00	0.00000e+00
82.4	0.00000e+00	0.00000e+00	0.00000e+00
82.5	0.00000e+00	0.00000e+00	0.00000e+00
82.6	0.00000e+00	0.00000e+00	0.00000e+00
82.7	0.00000e+00	0.00000e+00	0.00000e+00
82.8	0.00000e+00	0.00000e+00	0.00000e+00
82.9	0.00000e+00	0.00000e+00	0.00000e+00
83.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
83.1	0.00000e+00	0.00000e+00	0.00000e+00
83.2	0.00000e+00	0.00000e+00	0.00000e+00
83.3	0.00000e+00	0.00000e+00	0.00000e+00
83.4	0.00000e+00	0.00000e+00	0.00000e+00
83.5	0.00000e+00	0.00000e+00	0.00000e+00
83.6	0.00000e+00	0.00000e+00	0.00000e+00
83.7	0.00000e+00	0.00000e+00	0.00000e+00
83.8	0.00000e+00	0.00000e+00	0.00000e+00
83.9	0.00000e+00	0.00000e+00	0.00000e+00
84.0	0.00000e+00	0.00000e+00	0.00000e+00
84.1	0.00000e+00	0.00000e+00	0.00000e+00
84.2	0.00000e+00	0.00000e+00	0.00000e+00
84.3	0.00000e+00	0.00000e+00	0.00000e+00
84.4	0.00000e+00	0.00000e+00	0.00000e+00
84.5	0.00000e+00	0.00000e+00	0.00000e+00
84.6	0.00000e+00	0.00000e+00	0.00000e+00
84.7	0.00000e+00	0.00000e+00	0.00000e+00
84.8	0.00000e+00	0.00000e+00	0.00000e+00
84.9	0.00000e+00	0.00000e+00	0.00000e+00
85.0	0.00000e+00	0.00000e+00	0.00000e+00
85.1	0.00000e+00	0.00000e+00	0.00000e+00
85.2	0.00000e+00	0.00000e+00	0.00000e+00
85.3	0.00000e+00	0.00000e+00	0.00000e+00
85.4	0.00000e+00	0.00000e+00	0.00000e+00
85.5	0.00000e+00	0.00000e+00	0.00000e+00
85.6	0.00000e+00	0.00000e+00	0.00000e+00
85.7	0.00000e+00	0.00000e+00	0.00000e+00
85.8	0.00000e+00	0.00000e+00	0.00000e+00
85.9	0.00000e+00	0.00000e+00	0.00000e+00
86.0	0.00000e+00	0.00000e+00	0.00000e+00
86.1	0.00000e+00	0.00000e+00	0.00000e+00
86.2	0.00000e+00	0.00000e+00	0.00000e+00
86.3	0.00000e+00	0.00000e+00	0.00000e+00
86.4	0.00000e+00	0.00000e+00	0.00000e+00
86.5	0.00000e+00	0.00000e+00	0.00000e+00
86.6	0.00000e+00	0.00000e+00	0.00000e+00
86.7	0.00000e+00	0.00000e+00	0.00000e+00
86.8	0.00000e+00	0.00000e+00	0.00000e+00
86.9	0.00000e+00	0.00000e+00	0.00000e+00
87.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
87.1	0.00000e+00	0.00000e+00	0.00000e+00
87.2	0.00000e+00	0.00000e+00	0.00000e+00
87.3	0.00000e+00	0.00000e+00	0.00000e+00
87.4	0.00000e+00	0.00000e+00	0.00000e+00
87.5	0.00000e+00	0.00000e+00	0.00000e+00
87.6	0.00000e+00	0.00000e+00	0.00000e+00
87.7	0.00000e+00	0.00000e+00	0.00000e+00
87.8	0.00000e+00	0.00000e+00	0.00000e+00
87.9	0.00000e+00	0.00000e+00	0.00000e+00
88.0	0.00000e+00	0.00000e+00	0.00000e+00
88.1	0.00000e+00	0.00000e+00	0.00000e+00
88.2	0.00000e+00	0.00000e+00	0.00000e+00
88.3	0.00000e+00	0.00000e+00	0.00000e+00
88.4	0.00000e+00	0.00000e+00	0.00000e+00
88.5	0.00000e+00	0.00000e+00	0.00000e+00
88.6	0.00000e+00	0.00000e+00	0.00000e+00
88.7	0.00000e+00	0.00000e+00	0.00000e+00
88.8	0.00000e+00	0.00000e+00	0.00000e+00
88.9	0.00000e+00	0.00000e+00	0.00000e+00
89.0	0.00000e+00	0.00000e+00	0.00000e+00
89.1	0.00000e+00	0.00000e+00	0.00000e+00
89.2	0.00000e+00	0.00000e+00	0.00000e+00
89.3	0.00000e+00	0.00000e+00	0.00000e+00
89.4	0.00000e+00	0.00000e+00	0.00000e+00
89.5	0.00000e+00	0.00000e+00	0.00000e+00
89.6	0.00000e+00	0.00000e+00	0.00000e+00
89.7	0.00000e+00	0.00000e+00	0.00000e+00
89.8	0.00000e+00	0.00000e+00	0.00000e+00
89.9	0.00000e+00	0.00000e+00	0.00000e+00
90.0	0.00000e+00	0.00000e+00	0.00000e+00
90.1	0.00000e+00	0.00000e+00	0.00000e+00
90.2	0.00000e+00	0.00000e+00	0.00000e+00
90.3	0.00000e+00	0.00000e+00	0.00000e+00
90.4	0.00000e+00	0.00000e+00	0.00000e+00
90.5	0.00000e+00	0.00000e+00	0.00000e+00
90.6	0.00000e+00	0.00000e+00	0.00000e+00
90.7	0.00000e+00	0.00000e+00	0.00000e+00
90.8	0.00000e+00	0.00000e+00	0.00000e+00
90.9	0.00000e+00	0.00000e+00	0.00000e+00
91.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
91.1	0.00000e+00	0.00000e+00	0.00000e+00
91.2	0.00000e+00	0.00000e+00	0.00000e+00
91.3	0.00000e+00	0.00000e+00	0.00000e+00
91.4	0.00000e+00	0.00000e+00	0.00000e+00
91.5	0.00000e+00	0.00000e+00	0.00000e+00
91.6	0.00000e+00	0.00000e+00	0.00000e+00
91.7	0.00000e+00	0.00000e+00	0.00000e+00
91.8	0.00000e+00	0.00000e+00	0.00000e+00
91.9	0.00000e+00	0.00000e+00	0.00000e+00
92.0	0.00000e+00	0.00000e+00	0.00000e+00
92.1	0.00000e+00	0.00000e+00	0.00000e+00
92.2	0.00000e+00	0.00000e+00	0.00000e+00
92.3	0.00000e+00	0.00000e+00	0.00000e+00
92.4	0.00000e+00	0.00000e+00	0.00000e+00
92.5	0.00000e+00	0.00000e+00	0.00000e+00
92.6	0.00000e+00	0.00000e+00	0.00000e+00
92.7	0.00000e+00	0.00000e+00	0.00000e+00
92.8	0.00000e+00	0.00000e+00	0.00000e+00
92.9	0.00000e+00	0.00000e+00	0.00000e+00
93.0	0.00000e+00	0.00000e+00	0.00000e+00
93.1	0.00000e+00	0.00000e+00	0.00000e+00
93.2	0.00000e+00	0.00000e+00	0.00000e+00
93.3	0.00000e+00	0.00000e+00	0.00000e+00
93.4	0.00000e+00	0.00000e+00	0.00000e+00
93.5	0.00000e+00	0.00000e+00	0.00000e+00
93.6	0.00000e+00	0.00000e+00	0.00000e+00
93.7	0.00000e+00	0.00000e+00	0.00000e+00
93.8	0.00000e+00	0.00000e+00	0.00000e+00
93.9	0.00000e+00	0.00000e+00	0.00000e+00
94.0	0.00000e+00	0.00000e+00	0.00000e+00
94.1	0.00000e+00	0.00000e+00	0.00000e+00
94.2	0.00000e+00	0.00000e+00	0.00000e+00
94.3	0.00000e+00	0.00000e+00	0.00000e+00
94.4	0.00000e+00	0.00000e+00	0.00000e+00
94.5	0.00000e+00	0.00000e+00	0.00000e+00
94.6	0.00000e+00	0.00000e+00	0.00000e+00
94.7	0.00000e+00	0.00000e+00	0.00000e+00
94.8	0.00000e+00	0.00000e+00	0.00000e+00
94.9	0.00000e+00	0.00000e+00	0.00000e+00
95.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
95.1	0.00000e+00	0.00000e+00	0.00000e+00
95.2	0.00000e+00	0.00000e+00	0.00000e+00
95.3	0.00000e+00	0.00000e+00	0.00000e+00
95.4	0.00000e+00	0.00000e+00	0.00000e+00
95.5	0.00000e+00	0.00000e+00	0.00000e+00
95.6	0.00000e+00	0.00000e+00	0.00000e+00
95.7	0.00000e+00	0.00000e+00	0.00000e+00
95.8	0.00000e+00	0.00000e+00	0.00000e+00
95.9	0.00000e+00	0.00000e+00	0.00000e+00
96.0	0.00000e+00	0.00000e+00	0.00000e+00
96.1	0.00000e+00	0.00000e+00	0.00000e+00
96.2	0.00000e+00	0.00000e+00	0.00000e+00
96.3	0.00000e+00	0.00000e+00	0.00000e+00
96.4	0.00000e+00	0.00000e+00	0.00000e+00
96.5	0.00000e+00	0.00000e+00	0.00000e+00
96.6	0.00000e+00	0.00000e+00	0.00000e+00
96.7	0.00000e+00	0.00000e+00	0.00000e+00
96.8	0.00000e+00	0.00000e+00	0.00000e+00
96.9	0.00000e+00	0.00000e+00	0.00000e+00
97.0	0.00000e+00	0.00000e+00	0.00000e+00
97.1	0.00000e+00	0.00000e+00	0.00000e+00
97.2	0.00000e+00	0.00000e+00	0.00000e+00
97.3	0.00000e+00	0.00000e+00	0.00000e+00
97.4	0.00000e+00	0.00000e+00	0.00000e+00
97.5	0.00000e+00	0.00000e+00	0.00000e+00
97.6	0.00000e+00	0.00000e+00	0.00000e+00
97.7	0.00000e+00	0.00000e+00	0.00000e+00
97.8	0.00000e+00	0.00000e+00	0.00000e+00
97.9	0.00000e+00	0.00000e+00	0.00000e+00
98.0	0.00000e+00	0.00000e+00	0.00000e+00
98.1	0.00000e+00	0.00000e+00	0.00000e+00
98.2	0.00000e+00	0.00000e+00	0.00000e+00
98.3	0.00000e+00	0.00000e+00	0.00000e+00
98.4	0.00000e+00	0.00000e+00	0.00000e+00
98.5	0.00000e+00	0.00000e+00	0.00000e+00
98.6	0.00000e+00	0.00000e+00	0.00000e+00
98.7	0.00000e+00	0.00000e+00	0.00000e+00
98.8	0.00000e+00	0.00000e+00	0.00000e+00
98.9	0.00000e+00	0.00000e+00	0.00000e+00
99.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
99.1	0.00000e+00	0.00000e+00	0.00000e+00
99.2	0.00000e+00	0.00000e+00	0.00000e+00
99.3	0.00000e+00	0.00000e+00	0.00000e+00
99.4	0.00000e+00	0.00000e+00	0.00000e+00
99.5	0.00000e+00	0.00000e+00	0.00000e+00
99.6	0.00000e+00	0.00000e+00	0.00000e+00
99.7	0.00000e+00	0.00000e+00	0.00000e+00
99.8	0.00000e+00	0.00000e+00	0.00000e+00
99.9	0.00000e+00	0.00000e+00	0.00000e+00
100.0	0.00000e+00	0.00000e+00	0.00000e+00
100.1	0.00000e+00	0.00000e+00	0.00000e+00
100.2	0.00000e+00	0.00000e+00	0.00000e+00
100.3	0.00000e+00	0.00000e+00	0.00000e+00
100.4	0.00000e+00	0.00000e+00	0.00000e+00
100.5	0.00000e+00	0.00000e+00	0.00000e+00
100.6	0.00000e+00	0.00000e+00	0.00000e+00
100.7	0.00000e+00	0.00000e+00	0.00000e+00
100.8	0.00000e+00	0.00000e+00	0.00000e+00
100.9	0.00000e+00	0.00000e+00	0.00000e+00
101.0	0.00000e+00	0.00000e+00	0.00000e+00
101.1	0.00000e+00	0.00000e+00	0.00000e+00
101.2	0.00000e+00	0.00000e+00	0.00000e+00
101.3	0.00000e+00	0.00000e+00	0.00000e+00
101.4	0.00000e+00	0.00000e+00	0.00000e+00
101.5	0.00000e+00	0.00000e+00	0.00000e+00
101.6	0.00000e+00	0.00000e+00	0.00000e+00
101.7	0.00000e+00	0.00000e+00	0.00000e+00
101.8	0.00000e+00	0.00000e+00	0.00000e+00
101.9	0.00000e+00	0.00000e+00	0.00000e+00
102.0	0.00000e+00	0.00000e+00	0.00000e+00
102.1	0.00000e+00	0.00000e+00	0.00000e+00
102.2	0.00000e+00	0.00000e+00	0.00000e+00
102.3	0.00000e+00	0.00000e+00	0.00000e+00
102.4	0.00000e+00	0.00000e+00	0.00000e+00
102.5	0.00000e+00	0.00000e+00	0.00000e+00
102.6	0.00000e+00	0.00000e+00	0.00000e+00
102.7	0.00000e+00	0.00000e+00	0.00000e+00
102.8	0.00000e+00	0.00000e+00	0.00000e+00
102.9	0.00000e+00	0.00000e+00	0.00000e+00
103.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
103.1	0.00000e+00	0.00000e+00	0.00000e+00
103.2	0.00000e+00	0.00000e+00	0.00000e+00
103.3	0.00000e+00	0.00000e+00	0.00000e+00
103.4	0.00000e+00	0.00000e+00	0.00000e+00
103.5	0.00000e+00	0.00000e+00	0.00000e+00
103.6	0.00000e+00	0.00000e+00	0.00000e+00
103.7	0.00000e+00	0.00000e+00	0.00000e+00
103.8	0.00000e+00	0.00000e+00	0.00000e+00
103.9	0.00000e+00	0.00000e+00	0.00000e+00
104.0	0.00000e+00	0.00000e+00	0.00000e+00
104.1	0.00000e+00	0.00000e+00	0.00000e+00
104.2	0.00000e+00	0.00000e+00	0.00000e+00
104.3	0.00000e+00	0.00000e+00	0.00000e+00
104.4	0.00000e+00	0.00000e+00	0.00000e+00
104.5	0.00000e+00	0.00000e+00	0.00000e+00
104.6	0.00000e+00	0.00000e+00	0.00000e+00
104.7	0.00000e+00	0.00000e+00	0.00000e+00
104.8	0.00000e+00	0.00000e+00	0.00000e+00
104.9	0.00000e+00	0.00000e+00	0.00000e+00
105.0	0.00000e+00	0.00000e+00	0.00000e+00
105.1	0.00000e+00	0.00000e+00	0.00000e+00
105.2	0.00000e+00	0.00000e+00	0.00000e+00
105.3	0.00000e+00	0.00000e+00	0.00000e+00
105.4	0.00000e+00	0.00000e+00	0.00000e+00
105.5	0.00000e+00	0.00000e+00	0.00000e+00
105.6	0.00000e+00	0.00000e+00	0.00000e+00
105.7	0.00000e+00	0.00000e+00	0.00000e+00
105.8	0.00000e+00	0.00000e+00	0.00000e+00
105.9	0.00000e+00	0.00000e+00	0.00000e+00
106.0	0.00000e+00	0.00000e+00	0.00000e+00
106.1	0.00000e+00	0.00000e+00	0.00000e+00
106.2	0.00000e+00	0.00000e+00	0.00000e+00
106.3	0.00000e+00	0.00000e+00	0.00000e+00
106.4	0.00000e+00	0.00000e+00	0.00000e+00
106.5	0.00000e+00	0.00000e+00	0.00000e+00
106.6	0.00000e+00	0.00000e+00	0.00000e+00
106.7	0.00000e+00	0.00000e+00	0.00000e+00
106.8	0.00000e+00	0.00000e+00	0.00000e+00
106.9	0.00000e+00	0.00000e+00	0.00000e+00
107.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
107.1	0.00000e+00	0.00000e+00	0.00000e+00
107.2	0.00000e+00	0.00000e+00	0.00000e+00
107.3	0.00000e+00	0.00000e+00	0.00000e+00
107.4	0.00000e+00	0.00000e+00	0.00000e+00
107.5	0.00000e+00	0.00000e+00	0.00000e+00
107.6	0.00000e+00	0.00000e+00	0.00000e+00
107.7	0.00000e+00	0.00000e+00	0.00000e+00
107.8	0.00000e+00	0.00000e+00	0.00000e+00
107.9	0.00000e+00	0.00000e+00	0.00000e+00
108.0	0.00000e+00	0.00000e+00	0.00000e+00
108.1	0.00000e+00	0.00000e+00	0.00000e+00
108.2	0.00000e+00	0.00000e+00	0.00000e+00
108.3	0.00000e+00	0.00000e+00	0.00000e+00
108.4	0.00000e+00	0.00000e+00	0.00000e+00
108.5	0.00000e+00	0.00000e+00	0.00000e+00
108.6	0.00000e+00	0.00000e+00	0.00000e+00
108.7	0.00000e+00	0.00000e+00	0.00000e+00
108.8	0.00000e+00	0.00000e+00	0.00000e+00
108.9	0.00000e+00	0.00000e+00	0.00000e+00
109.0	0.00000e+00	0.00000e+00	0.00000e+00
109.1	0.00000e+00	0.00000e+00	0.00000e+00
109.2	0.00000e+00	0.00000e+00	0.00000e+00
109.3	0.00000e+00	0.00000e+00	0.00000e+00
109.4	0.00000e+00	0.00000e+00	0.00000e+00
109.5	0.00000e+00	0.00000e+00	0.00000e+00
109.6	0.00000e+00	0.00000e+00	0.00000e+00
109.7	0.00000e+00	0.00000e+00	0.00000e+00
109.8	0.00000e+00	0.00000e+00	0.00000e+00
109.9	0.00000e+00	0.00000e+00	0.00000e+00
110.0	0.00000e+00	0.00000e+00	0.00000e+00
110.1	0.00000e+00	0.00000e+00	0.00000e+00
110.2	0.00000e+00	0.00000e+00	0.00000e+00
110.3	0.00000e+00	0.00000e+00	0.00000e+00
110.4	0.00000e+00	0.00000e+00	0.00000e+00
110.5	0.00000e+00	0.00000e+00	0.00000e+00
110.6	0.00000e+00	0.00000e+00	0.00000e+00
110.7	0.00000e+00	0.00000e+00	0.00000e+00
110.8	0.00000e+00	0.00000e+00	0.00000e+00
110.9	0.00000e+00	0.00000e+00	0.00000e+00
111.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
111.1	0.00000e+00	0.00000e+00	0.00000e+00
111.2	0.00000e+00	0.00000e+00	0.00000e+00
111.3	0.00000e+00	0.00000e+00	0.00000e+00
111.4	0.00000e+00	0.00000e+00	0.00000e+00
111.5	0.00000e+00	0.00000e+00	0.00000e+00
111.6	0.00000e+00	0.00000e+00	0.00000e+00
111.7	0.00000e+00	0.00000e+00	0.00000e+00
111.8	0.00000e+00	0.00000e+00	0.00000e+00
111.9	0.00000e+00	0.00000e+00	0.00000e+00
112.0	0.00000e+00	0.00000e+00	0.00000e+00
112.1	0.00000e+00	0.00000e+00	0.00000e+00
112.2	0.00000e+00	0.00000e+00	0.00000e+00
112.3	0.00000e+00	0.00000e+00	0.00000e+00
112.4	0.00000e+00	0.00000e+00	0.00000e+00
112.5	0.00000e+00	0.00000e+00	0.00000e+00
112.6	0.00000e+00	0.00000e+00	0.00000e+00
112.7	0.00000e+00	0.00000e+00	0.00000e+00
112.8	0.00000e+00	0.00000e+00	0.00000e+00
112.9	0.00000e+00	0.00000e+00	0.00000e+00
113.0	0.00000e+00	0.00000e+00	0.00000e+00
113.1	0.00000e+00	0.00000e+00	0.00000e+00
113.2	0.00000e+00	0.00000e+00	0.00000e+00
113.3	0.00000e+00	0.00000e+00	0.00000e+00
113.4	0.00000e+00	0.00000e+00	0.00000e+00
113.5	0.00000e+00	0.00000e+00	0.00000e+00
113.6	0.00000e+00	0.00000e+00	0.00000e+00
113.7	0.00000e+00	0.00000e+00	0.00000e+00
113.8	0.00000e+00	0.00000e+00	0.00000e+00
113.9	0.00000e+00	0.00000e+00	0.00000e+00
114.0	0.00000e+00	0.00000e+00	0.00000e+00
114.1	0.00000e+00	0.00000e+00	0.00000e+00
114.2	0.00000e+00	0.00000e+00	0.00000e+00
114.3	0.00000e+00	0.00000e+00	0.00000e+00
114.4	0.00000e+00	0.00000e+00	0.00000e+00
114.5	0.00000e+00	0.00000e+00	0.00000e+00
114.6	0.00000e+00	0.00000e+00	0.00000e+00
114.7	0.00000e+00	0.00000e+00	0.00000e+00
114.8	0.00000e+00	0.00000e+00	0.00000e+00
114.9	0.00000e+00	0.00000e+00	0.00000e+00
115.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
115.1	0.00000e+00	0.00000e+00	0.00000e+00
115.2	0.00000e+00	0.00000e+00	0.00000e+00
115.3	0.00000e+00	0.00000e+00	0.00000e+00
115.4	0.00000e+00	0.00000e+00	0.00000e+00
115.5	0.00000e+00	0.00000e+00	0.00000e+00
115.6	0.00000e+00	0.00000e+00	0.00000e+00
115.7	0.00000e+00	0.00000e+00	0.00000e+00
115.8	0.00000e+00	0.00000e+00	0.00000e+00
115.9	0.00000e+00	0.00000e+00	0.00000e+00
116.0	0.00000e+00	0.00000e+00	0.00000e+00
116.1	0.00000e+00	0.00000e+00	0.00000e+00
116.2	0.00000e+00	0.00000e+00	0.00000e+00
116.3	0.00000e+00	0.00000e+00	0.00000e+00
116.4	0.00000e+00	0.00000e+00	0.00000e+00
116.5	0.00000e+00	0.00000e+00	0.00000e+00
116.6	0.00000e+00	0.00000e+00	0.00000e+00
116.7	0.00000e+00	0.00000e+00	0.00000e+00
116.8	0.00000e+00	0.00000e+00	0.00000e+00
116.9	0.00000e+00	0.00000e+00	0.00000e+00
117.0	0.00000e+00	0.00000e+00	0.00000e+00
117.1	0.00000e+00	0.00000e+00	0.00000e+00
117.2	0.00000e+00	0.00000e+00	0.00000e+00
117.3	0.00000e+00	0.00000e+00	0.00000e+00
117.4	0.00000e+00	0.00000e+00	0.00000e+00
117.5	0.00000e+00	0.00000e+00	0.00000e+00
117.6	0.00000e+00	0.00000e+00	0.00000e+00
117.7	0.00000e+00	0.00000e+00	0.00000e+00
117.8	0.00000e+00	0.00000e+00	0.00000e+00
117.9	0.00000e+00	0.00000e+00	0.00000e+00
118.0	0.00000e+00	0.00000e+00	0.00000e+00
118.1	0.00000e+00	0.00000e+00	0.00000e+00
118.2	0.00000e+00	0.00000e+00	0.00000e+00
118.3	0.00000e+00	0.00000e+00	0.00000e+00
118.4	0.00000e+00	0.00000e+00	0.00000e+00
118.5	0.00000e+00	0.00000e+00	0.00000e+00
118.6	0.00000e+00	0.00000e+00	0.00000e+00
118.7	0.00000e+00	0.00000e+00	0.00000e+00
118.8	0.00000e+00	0.00000e+00	0.00000e+00
118.9	0.00000e+00	0.00000e+00	0.00000e+00
119.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
119.1	0.00000e+00	0.00000e+00	0.00000e+00
119.2	0.00000e+00	0.00000e+00	0.00000e+00
119.3	0.00000e+00	0.00000e+00	0.00000e+00
119.4	0.00000e+00	0.00000e+00	0.00000e+00
119.5	0.00000e+00	0.00000e+00	0.00000e+00
119.6	0.00000e+00	0.00000e+00	0.00000e+00
119.7	0.00000e+00	0.00000e+00	0.00000e+00
119.8	0.00000e+00	0.00000e+00	0.00000e+00
119.9	0.00000e+00	0.00000e+00	0.00000e+00
120.0	0.00000e+00	0.00000e+00	0.00000e+00
120.1	0.00000e+00	0.00000e+00	0.00000e+00
120.2	0.00000e+00	0.00000e+00	0.00000e+00
120.3	0.00000e+00	0.00000e+00	0.00000e+00
120.4	0.00000e+00	0.00000e+00	0.00000e+00
120.5	0.00000e+00	0.00000e+00	0.00000e+00
120.6	0.00000e+00	0.00000e+00	0.00000e+00
120.7	0.00000e+00	0.00000e+00	0.00000e+00
120.8	0.00000e+00	0.00000e+00	0.00000e+00
120.9	0.00000e+00	0.00000e+00	0.00000e+00
121.0	0.00000e+00	0.00000e+00	0.00000e+00
121.1	0.00000e+00	0.00000e+00	0.00000e+00
121.2	0.00000e+00	0.00000e+00	0.00000e+00
121.3	0.00000e+00	0.00000e+00	0.00000e+00
121.4	0.00000e+00	0.00000e+00	0.00000e+00
121.5	0.00000e+00	0.00000e+00	0.00000e+00
121.6	0.00000e+00	0.00000e+00	0.00000e+00
121.7	0.00000e+00	0.00000e+00	0.00000e+00
121.8	0.00000e+00	0.00000e+00	0.00000e+00
121.9	0.00000e+00	0.00000e+00	0.00000e+00
122.0	0.00000e+00	0.00000e+00	0.00000e+00
122.1	0.00000e+00	0.00000e+00	0.00000e+00
122.2	0.00000e+00	0.00000e+00	0.00000e+00
122.3	0.00000e+00	0.00000e+00	0.00000e+00
122.4	0.00000e+00	0.00000e+00	0.00000e+00
122.5	0.00000e+00	0.00000e+00	0.00000e+00
122.6	0.00000e+00	0.00000e+00	0.00000e+00
122.7	0.00000e+00	0.00000e+00	0.00000e+00
122.8	0.00000e+00	0.00000e+00	0.00000e+00
122.9	0.00000e+00	0.00000e+00	0.00000e+00
123.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
123.1	0.00000e+00	0.00000e+00	0.00000e+00
123.2	0.00000e+00	0.00000e+00	0.00000e+00
123.3	0.00000e+00	0.00000e+00	0.00000e+00
123.4	0.00000e+00	0.00000e+00	0.00000e+00
123.5	0.00000e+00	0.00000e+00	0.00000e+00
123.6	0.00000e+00	0.00000e+00	0.00000e+00
123.7	0.00000e+00	0.00000e+00	0.00000e+00
123.8	0.00000e+00	0.00000e+00	0.00000e+00
123.9	0.00000e+00	0.00000e+00	0.00000e+00
124.0	0.00000e+00	0.00000e+00	0.00000e+00
124.1	0.00000e+00	0.00000e+00	0.00000e+00
124.2	0.00000e+00	0.00000e+00	0.00000e+00
124.3	0.00000e+00	0.00000e+00	0.00000e+00
124.4	0.00000e+00	0.00000e+00	0.00000e+00
124.5	0.00000e+00	0.00000e+00	0.00000e+00
124.6	0.00000e+00	0.00000e+00	0.00000e+00
124.7	0.00000e+00	0.00000e+00	0.00000e+00
124.8	0.00000e+00	0.00000e+00	0.00000e+00
124.9	0.00000e+00	0.00000e+00	0.00000e+00
125.0	0.00000e+00	0.00000e+00	0.00000e+00
125.1	0.00000e+00	0.00000e+00	0.00000e+00
125.2	0.00000e+00	0.00000e+00	0.00000e+00
125.3	0.00000e+00	0.00000e+00	0.00000e+00
125.4	0.00000e+00	0.00000e+00	0.00000e+00
125.5	0.00000e+00	0.00000e+00	0.00000e+00
125.6	0.00000e+00	0.00000e+00	0.00000e+00
125.7	0.00000e+00	0.00000e+00	0.00000e+00
125.8	0.00000e+00	0.00000e+00	0.00000e+00
125.9	0.00000e+00	0.00000e+00	0.00000e+00
126.0	0.00000e+00	0.00000e+00	0.00000e+00
126.1	0.00000e+00	0.00000e+00	0.00000e+00
126.2	0.00000e+00	0.00000e+00	0.00000e+00
126.3	0.00000e+00	0.00000e+00	0.00000e+00
126.4	0.00000e+00	0.00000e+00	0.00000e+00
126.5	0.00000e+00	0.00000e+00	0.00000e+00
126.6	0.00000e+00	0.00000e+00	0.00000e+00
126.7	0.00000e+00	0.00000e+00	0.00000e+00
126.8	0.00000e+00	0.00000e+00	0.00000e+00
126.9	0.00000e+00	0.00000e+00	0.00000e+00
127.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
127.1	0.00000e+00	0.00000e+00	0.00000e+00
127.2	0.00000e+00	0.00000e+00	0.00000e+00
127.3	0.00000e+00	0.00000e+00	0.00000e+00
127.4	0.00000e+00	0.00000e+00	0.00000e+00
127.5	0.00000e+00	0.00000e+00	0.00000e+00
127.6	0.00000e+00	0.00000e+00	0.00000e+00
127.7	0.00000e+00	0.00000e+00	0.00000e+00
127.8	0.00000e+00	0.00000e+00	0.00000e+00
127.9	0.00000e+00	0.00000e+00	0.00000e+00
128.0	0.00000e+00	0.00000e+00	0.00000e+00
128.1	0.00000e+00	0.00000e+00	0.00000e+00
128.2	0.00000e+00	0.00000e+00	0.00000e+00
128.3	0.00000e+00	0.00000e+00	0.00000e+00
128.4	0.00000e+00	0.00000e+00	0.00000e+00
128.5	0.00000e+00	0.00000e+00	0.00000e+00
128.6	0.00000e+00	0.00000e+00	0.00000e+00
128.7	0.00000e+00	0.00000e+00	0.00000e+00
128.8	0.00000e+00	0.00000e+00	0.00000e+00
128.9	0.00000e+00	0.00000e+00	0.00000e+00
129.0	0.00000e+00	0.00000e+00	0.00000e+00
129.1	0.00000e+00	0.00000e+00	0.00000e+00
129.2	0.00000e+00	0.00000e+00	0.00000e+00
129.3	0.00000e+00	0.00000e+00	0.00000e+00
129.4	0.00000e+00	0.00000e+00	0.00000e+00
129.5	0.00000e+00	0.00000e+00	0.00000e+00
129.6	0.00000e+00	0.00000e+00	0.00000e+00
129.7	0.00000e+00	0.00000e+00	0.00000e+00
129.8	0.00000e+00	0.00000e+00	0.00000e+00
129.9	0.00000e+00	0.00000e+00	0.00000e+00
130.0	0.00000e+00	0.00000e+00	0.00000e+00
130.1	0.00000e+00	0.00000e+00	0.00000e+00
130.2	0.00000e+00	0.00000e+00	0.00000e+00
130.3	0.00000e+00	0.00000e+00	0.00000e+00
130.4	0.00000e+00	0.00000e+00	0.00000e+00
130.5	0.00000e+00	0.00000e+00	0.00000e+00
130.6	0.00000e+00	0.00000e+00	0.00000e+00
130.7	0.00000e+00	0.00000e+00	0.00000e+00
130.8	0.00000e+00	0.00000e+00	0.00000e+00
130.9	0.00000e+00	0.00000e+00	0.00000e+00
131.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
131.1	0.00000e+00	0.00000e+00	0.00000e+00
131.2	0.00000e+00	0.00000e+00	0.00000e+00
131.3	0.00000e+00	0.00000e+00	0.00000e+00
131.4	0.00000e+00	0.00000e+00	0.00000e+00
131.5	0.00000e+00	0.00000e+00	0.00000e+00
131.6	0.00000e+00	0.00000e+00	0.00000e+00
131.7	0.00000e+00	0.00000e+00	0.00000e+00
131.8	0.00000e+00	0.00000e+00	0.00000e+00
131.9	0.00000e+00	0.00000e+00	0.00000e+00
132.0	0.00000e+00	0.00000e+00	0.00000e+00
132.1	0.00000e+00	0.00000e+00	0.00000e+00
132.2	0.00000e+00	0.00000e+00	0.00000e+00
132.3	0.00000e+00	0.00000e+00	0.00000e+00
132.4	0.00000e+00	0.00000e+00	0.00000e+00
132.5	0.00000e+00	0.00000e+00	0.00000e+00
132.6	0.00000e+00	0.00000e+00	0.00000e+00
132.7	0.00000e+00	0.00000e+00	0.00000e+00
132.8	0.00000e+00	0.00000e+00	0.00000e+00
132.9	0.00000e+00	0.00000e+00	0.00000e+00
133.0	0.00000e+00	0.00000e+00	0.00000e+00
133.1	0.00000e+00	0.00000e+00	0.00000e+00
133.2	0.00000e+00	0.00000e+00	0.00000e+00
133.3	0.00000e+00	0.00000e+00	0.00000e+00
133.4	0.00000e+00	0.00000e+00	0.00000e+00
133.5	0.00000e+00	0.00000e+00	0.00000e+00
133.6	0.00000e+00	0.00000e+00	0.00000e+00
133.7	0.00000e+00	0.00000e+00	0.00000e+00
133.8	0.00000e+00	0.00000e+00	0.00000e+00
133.9	0.00000e+00	0.00000e+00	0.00000e+00
134.0	0.00000e+00	0.00000e+00	0.00000e+00
134.1	0.00000e+00	0.00000e+00	0.00000e+00
134.2	0.00000e+00	0.00000e+00	0.00000e+00
134.3	0.00000e+00	0.00000e+00	0.00000e+00
134.4	0.00000e+00	0.00000e+00	0.00000e+00
134.5	0.00000e+00	0.00000e+00	0.00000e+00
134.6	0.00000e+00	0.00000e+00	0.00000e+00
134.7	0.00000e+00	0.00000e+00	0.00000e+00
134.8	0.00000e+00	0.00000e+00	0.00000e+00
134.9	0.00000e+00	0.00000e+00	0.00000e+00
135.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
135.1	0.00000e+00	0.00000e+00	0.00000e+00
135.2	0.00000e+00	0.00000e+00	0.00000e+00
135.3	0.00000e+00	0.00000e+00	0.00000e+00
135.4	0.00000e+00	0.00000e+00	0.00000e+00
135.5	0.00000e+00	0.00000e+00	0.00000e+00
135.6	0.00000e+00	0.00000e+00	0.00000e+00
135.7	0.00000e+00	0.00000e+00	0.00000e+00
135.8	0.00000e+00	0.00000e+00	0.00000e+00
135.9	0.00000e+00	0.00000e+00	0.00000e+00
136.0	0.00000e+00	0.00000e+00	0.00000e+00
136.1	0.00000e+00	0.00000e+00	0.00000e+00
136.2	0.00000e+00	0.00000e+00	0.00000e+00
136.3	0.00000e+00	0.00000e+00	0.00000e+00
136.4	0.00000e+00	0.00000e+00	0.00000e+00
136.5	0.00000e+00	0.00000e+00	0.00000e+00
136.6	0.00000e+00	0.00000e+00	0.00000e+00
136.7	0.00000e+00	0.00000e+00	0.00000e+00
136.8	0.00000e+00	0.00000e+00	0.00000e+00
136.9	0.00000e+00	0.00000e+00	0.00000e+00
137.0	0.00000e+00	0.00000e+00	0.00000e+00
137.1	0.00000e+00	0.00000e+00	0.00000e+00
137.2	0.00000e+00	0.00000e+00	0.00000e+00
137.3	0.00000e+00	0.00000e+00	0.00000e+00
137.4	0.00000e+00	0.00000e+00	0.00000e+00
137.5	0.00000e+00	0.00000e+00	0.00000e+00
137.6	0.00000e+00	0.00000e+00	0.00000e+00
137.7	0.00000e+00	0.00000e+00	0.00000e+00
137.8	0.00000e+00	0.00000e+00	0.00000e+00
137.9	0.00000e+00	0.00000e+00	0.00000e+00
138.0	0.00000e+00	0.00000e+00	0.00000e+00
138.1	0.00000e+00	0.00000e+00	0.00000e+00
138.2	0.00000e+00	0.00000e+00	0.00000e+00
138.3	0.00000e+00	0.00000e+00	0.00000e+00
138.4	0.00000e+00	0.00000e+00	0.00000e+00
138.5	0.00000e+00	0.00000e+00	0.00000e+00
138.6	0.00000e+00	0.00000e+00	0.00000e+00
138.7	0.00000e+00	0.00000e+00	0.00000e+00
138.8	0.00000e+00	0.00000e+00	0.00000e+00
138.9	0.00000e+00	0.00000e+00	0.00000e+00
139.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
139.1	0.00000e+00	0.00000e+00	0.00000e+00
139.2	0.00000e+00	0.00000e+00	0.00000e+00
139.3	0.00000e+00	0.00000e+00	0.00000e+00
139.4	0.00000e+00	0.00000e+00	0.00000e+00
139.5	0.00000e+00	0.00000e+00	0.00000e+00
139.6	0.00000e+00	0.00000e+00	0.00000e+00
139.7	0.00000e+00	0.00000e+00	0.00000e+00
139.8	0.00000e+00	0.00000e+00	0.00000e+00
139.9	0.00000e+00	0.00000e+00	0.00000e+00
140.0	0.00000e+00	0.00000e+00	0.00000e+00
140.1	0.00000e+00	0.00000e+00	0.00000e+00
140.2	0.00000e+00	0.00000e+00	0.00000e+00
140.3	0.00000e+00	0.00000e+00	0.00000e+00
140.4	0.00000e+00	0.00000e+00	0.00000e+00
140.5	0.00000e+00	0.00000e+00	0.00000e+00
140.6	0.00000e+00	0.00000e+00	0.00000e+00
140.7	0.00000e+00	0.00000e+00	0.00000e+00
140.8	0.00000e+00	0.00000e+00	0.00000e+00
140.9	0.00000e+00	0.00000e+00	0.00000e+00
141.0	0.00000e+00	0.00000e+00	0.00000e+00
141.1	0.00000e+00	0.00000e+00	0.00000e+00
141.2	0.00000e+00	0.00000e+00	0.00000e+00
141.3	0.00000e+00	0.00000e+00	0.00000e+00
141.4	0.00000e+00	0.00000e+00	0.00000e+00
141.5	0.00000e+00	0.00000e+00	0.00000e+00
141.6	0.00000e+00	0.00000e+00	0.00000e+00
141.7	0.00000e+00	0.00000e+00	0.00000e+00
141.8	0.00000e+00	0.00000e+00	0.00000e+00
141.9	0.00000e+00	0.00000e+00	0.00000e+00
142.0	0.00000e+00	0.00000e+00	0.00000e+00
142.1	0.00000e+00	0.00000e+00	0.00000e+00
142.2	0.00000e+00	0.00000e+00	0.00000e+00
142.3	0.00000e+00	0.00000e+00	0.00000e+00
142.4	0.00000e+00	0.00000e+00	0.00000e+00
142.5	0.00000e+00	0.00000e+00	0.00000e+00
142.6	0.00000e+00	0.00000e+00	0.00000e+00
142.7	0.00000e+00	0.00000e+00	0.00000e+00
142.8	0.00000e+00	0.00000e+00	0.00000e+00
142.9	0.00000e+00	0.00000e+00	0.00000e+00
143.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
143.1	0.00000e+00	0.00000e+00	0.00000e+00
143.2	0.00000e+00	0.00000e+00	0.00000e+00
143.3	0.00000e+00	0.00000e+00	0.00000e+00
143.4	0.00000e+00	0.00000e+00	0.00000e+00
143.5	0.00000e+00	0.00000e+00	0.00000e+00
143.6	0.00000e+00	0.00000e+00	0.00000e+00
143.7	0.00000e+00	0.00000e+00	0.00000e+00
143.8	0.00000e+00	0.00000e+00	0.00000e+00
143.9	0.00000e+00	0.00000e+00	0.00000e+00
144.0	0.00000e+00	0.00000e+00	0.00000e+00
144.1	0.00000e+00	0.00000e+00	0.00000e+00
144.2	0.00000e+00	0.00000e+00	0.00000e+00
144.3	0.00000e+00	0.00000e+00	0.00000e+00
144.4	0.00000e+00	0.00000e+00	0.00000e+00
144.5	0.00000e+00	0.00000e+00	0.00000e+00
144.6	0.00000e+00	0.00000e+00	0.00000e+00
144.7	0.00000e+00	0.00000e+00	0.00000e+00
144.8	0.00000e+00	0.00000e+00	0.00000e+00
144.9	0.00000e+00	0.00000e+00	0.00000e+00
145.0	0.00000e+00	0.00000e+00	0.00000e+00
145.1	0.00000e+00	0.00000e+00	0.00000e+00
145.2	0.00000e+00	0.00000e+00	0.00000e+00
145.3	0.00000e+00	0.00000e+00	0.00000e+00
145.4	0.00000e+00	0.00000e+00	0.00000e+00
145.5	0.00000e+00	0.00000e+00	0.00000e+00
145.6	0.00000e+00	0.00000e+00	0.00000e+00
145.7	0.00000e+00	0.00000e+00	0.00000e+00
145.8	0.00000e+00	0.00000e+00	0.00000e+00
145.9	0.00000e+00	0.00000e+00	0.00000e+00
146.0	0.00000e+00	0.00000e+00	0.00000e+00
146.1	0.00000e+00	0.00000e+00	0.00000e+00
146.2	0.00000e+00	0.00000e+00	0.00000e+00
146.3	0.00000e+00	0.00000e+00	0.00000e+00
146.4	0.00000e+00	0.00000e+00	0.00000e+00
146.5	0.00000e+00	0.00000e+00	0.00000e+00
146.6	0.00000e+00	0.00000e+00	0.00000e+00
146.7	0.00000e+00	0.00000e+00	0.00000e+00
146.8	0.00000e+00	0.00000e+00	0.00000e+00
146.9	0.00000e+00	0.00000e+00	0.00000e+00
147.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
147.1	0.00000e+00	0.00000e+00	0.00000e+00
147.2	0.00000e+00	0.00000e+00	0.00000e+00
147.3	0.00000e+00	0.00000e+00	0.00000e+00
147.4	0.00000e+00	0.00000e+00	0.00000e+00
147.5	0.00000e+00	0.00000e+00	0.00000e+00
147.6	0.00000e+00	0.00000e+00	0.00000e+00
147.7	0.00000e+00	0.00000e+00	0.00000e+00
147.8	0.00000e+00	0.00000e+00	0.00000e+00
147.9	0.00000e+00	0.00000e+00	0.00000e+00
148.0	0.00000e+00	0.00000e+00	0.00000e+00
148.1	0.00000e+00	0.00000e+00	0.00000e+00
148.2	0.00000e+00	0.00000e+00	0.00000e+00
148.3	0.00000e+00	0.00000e+00	0.00000e+00
148.4	0.00000e+00	0.00000e+00	0.00000e+00
148.5	0.00000e+00	0.00000e+00	0.00000e+00
148.6	0.00000e+00	0.00000e+00	0.00000e+00
148.7	0.00000e+00	0.00000e+00	0.00000e+00
148.8	0.00000e+00	0.00000e+00	0.00000e+00
148.9	0.00000e+00	0.00000e+00	0.00000e+00
149.0	0.00000e+00	0.00000e+00	0.00000e+00
149.1	0.00000e+00	0.00000e+00	0.00000e+00
149.2	0.00000e+00	0.00000e+00	0.00000e+00
149.3	0.00000e+00	0.00000e+00	0.00000e+00
149.4	0.00000e+00	0.00000e+00	0.00000e+00
149.5	0.00000e+00	0.00000e+00	0.00000e+00
149.6	0.00000e+00	0.00000e+00	0.00000e+00
149.7	0.00000e+00	0.00000e+00	0.00000e+00
149.8	0.00000e+00	0.00000e+00	0.00000e+00
149.9	0.00000e+00	0.00000e+00	0.00000e+00
150.0	0.00000e+00	0.00000e+00	0.00000e+00
150.1	0.00000e+00	0.00000e+00	0.00000e+00
150.2	0.00000e+00	0.00000e+00	0.00000e+00
150.3	0.00000e+00	0.00000e+00	0.00000e+00
150.4	0.00000e+00	0.00000e+00	0.00000e+00
150.5	0.00000e+00	0.00000e+00	0.00000e+00
150.6	0.00000e+00	0.00000e+00	0.00000e+00
150.7	0.00000e+00	0.00000e+00	0.00000e+00
150.8	0.00000e+00	0.00000e+00	0.00000e+00
150.9	0.00000e+00	0.00000e+00	0.00000e+00
151.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
151.1	0.00000e+00	0.00000e+00	0.00000e+00
151.2	0.00000e+00	0.00000e+00	0.00000e+00
151.3	0.00000e+00	0.00000e+00	0.00000e+00
151.4	0.00000e+00	0.00000e+00	0.00000e+00
151.5	0.00000e+00	0.00000e+00	0.00000e+00
151.6	0.00000e+00	0.00000e+00	0.00000e+00
151.7	0.00000e+00	0.00000e+00	0.00000e+00
151.8	0.00000e+00	0.00000e+00	0.00000e+00
151.9	0.00000e+00	0.00000e+00	0.00000e+00
152.0	0.00000e+00	0.00000e+00	0.00000e+00
152.1	0.00000e+00	0.00000e+00	0.00000e+00
152.2	0.00000e+00	0.00000e+00	0.00000e+00
152.3	0.00000e+00	0.00000e+00	0.00000e+00
152.4	0.00000e+00	0.00000e+00	0.00000e+00
152.5	0.00000e+00	0.00000e+00	0.00000e+00
152.6	0.00000e+00	0.00000e+00	0.00000e+00
152.7	0.00000e+00	0.00000e+00	0.00000e+00
152.8	0.00000e+00	0.00000e+00	0.00000e+00
152.9	0.00000e+00	0.00000e+00	0.00000e+00
153.0	0.00000e+00	0.00000e+00	0.00000e+00
153.1	0.00000e+00	0.00000e+00	0.00000e+00
153.2	0.00000e+00	0.00000e+00	0.00000e+00
153.3	0.00000e+00	0.00000e+00	0.00000e+00
153.4	0.00000e+00	0.00000e+00	0.00000e+00
153.5	0.00000e+00	0.00000e+00	0.00000e+00
153.6	0.00000e+00	0.00000e+00	0.00000e+00
153.7	0.00000e+00	0.00000e+00	0.00000e+00
153.8	0.00000e+00	0.00000e+00	0.00000e+00
153.9	0.00000e+00	0.00000e+00	0.00000e+00
154.0	0.00000e+00	0.00000e+00	0.00000e+00
154.1	0.00000e+00	0.00000e+00	0.00000e+00
154.2	0.00000e+00	0.00000e+00	0.00000e+00
154.3	0.00000e+00	0.00000e+00	0.00000e+00
154.4	0.00000e+00	0.00000e+00	0.00000e+00
154.5	0.00000e+00	0.00000e+00	0.00000e+00
154.6	0.00000e+00	0.00000e+00	0.00000e+00
154.7	0.00000e+00	0.00000e+00	0.00000e+00
154.8	0.00000e+00	0.00000e+00	0.00000e+00
154.9	0.00000e+00	0.00000e+00	0.00000e+00
155.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
155.1	0.00000e+00	0.00000e+00	0.00000e+00
155.2	0.00000e+00	0.00000e+00	0.00000e+00
155.3	0.00000e+00	0.00000e+00	0.00000e+00
155.4	0.00000e+00	0.00000e+00	0.00000e+00
155.5	0.00000e+00	0.00000e+00	0.00000e+00
155.6	0.00000e+00	0.00000e+00	0.00000e+00
155.7	0.00000e+00	0.00000e+00	0.00000e+00
155.8	0.00000e+00	0.00000e+00	0.00000e+00
155.9	0.00000e+00	0.00000e+00	0.00000e+00
156.0	0.00000e+00	0.00000e+00	0.00000e+00
156.1	0.00000e+00	0.00000e+00	0.00000e+00
156.2	0.00000e+00	0.00000e+00	0.00000e+00
156.3	0.00000e+00	0.00000e+00	0.00000e+00
156.4	0.00000e+00	0.00000e+00	0.00000e+00
156.5	0.00000e+00	0.00000e+00	0.00000e+00
156.6	0.00000e+00	0.00000e+00	0.00000e+00
156.7	0.00000e+00	0.00000e+00	0.00000e+00
156.8	0.00000e+00	0.00000e+00	0.00000e+00
156.9	0.00000e+00	0.00000e+00	0.00000e+00
157.0	0.00000e+00	0.00000e+00	0.00000e+00
157.1	0.00000e+00	0.00000e+00	0.00000e+00
157.2	0.00000e+00	0.00000e+00	0.00000e+00
157.3	0.00000e+00	0.00000e+00	0.00000e+00
157.4	0.00000e+00	0.00000e+00	0.00000e+00
157.5	0.00000e+00	0.00000e+00	0.00000e+00
157.6	0.00000e+00	0.00000e+00	0.00000e+00
157.7	0.00000e+00	0.00000e+00	0.00000e+00
157.8	0.00000e+00	0.00000e+00	0.00000e+00
157.9	0.00000e+00	0.00000e+00	0.00000e+00
158.0	0.00000e+00	0.00000e+00	0.00000e+00
158.1	0.00000e+00	0.00000e+00	0.00000e+00
158.2	0.00000e+00	0.00000e+00	0.00000e+00
158.3	0.00000e+00	0.00000e+00	0.00000e+00
158.4	0.00000e+00	0.00000e+00	0.00000e+00
158.5	0.00000e+00	0.00000e+00	0.00000e+00
158.6	0.00000e+00	0.00000e+00	0.00000e+00
158.7	0.00000e+00	0.00000e+00	0.00000e+00
158.8	0.00000e+00	0.00000e+00	0.00000e+00
158.9	0.00000e+00	0.00000e+00	0.00000e+00
159.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
159.1	0.00000e+00	0.00000e+00	0.00000e+00
159.2	0.00000e+00	0.00000e+00	0.00000e+00
159.3	0.00000e+00	0.00000e+00	0.00000e+00
159.4	0.00000e+00	0.00000e+00	0.00000e+00
159.5	0.00000e+00	0.00000e+00	0.00000e+00
159.6	0.00000e+00	0.00000e+00	0.00000e+00
159.7	0.00000e+00	0.00000e+00	0.00000e+00
159.8	0.00000e+00	0.00000e+00	0.00000e+00
159.9	0.00000e+00	0.00000e+00	0.00000e+00
160.0	0.00000e+00	0.00000e+00	0.00000e+00
160.1	0.00000e+00	0.00000e+00	0.00000e+00
160.2	0.00000e+00	0.00000e+00	0.00000e+00
160.3	0.00000e+00	0.00000e+00	0.00000e+00
160.4	0.00000e+00	0.00000e+00	0.00000e+00
160.5	0.00000e+00	0.00000e+00	0.00000e+00
160.6	0.00000e+00	0.00000e+00	0.00000e+00
160.7	0.00000e+00	0.00000e+00	0.00000e+00
160.8	0.00000e+00	0.00000e+00	0.00000e+00
160.9	0.00000e+00	0.00000e+00	0.00000e+00
161.0	0.00000e+00	0.00000e+00	0.00000e+00
161.1	0.00000e+00	0.00000e+00	0.00000e+00
161.2	0.00000e+00	0.00000e+00	0.00000e+00
161.3	0.00000e+00	0.00000e+00	0.00000e+00
161.4	0.00000e+00	0.00000e+00	0.00000e+00
161.5	0.00000e+00	0.00000e+00	0.00000e+00
161.6	0.00000e+00	0.00000e+00	0.00000e+00
161.7	0.00000e+00	0.00000e+00	0.00000e+00
161.8	0.00000e+00	0.00000e+00	0.00000e+00
161.9	0.00000e+00	0.00000e+00	0.00000e+00
162.0	0.00000e+00	0.00000e+00	0.00000e+00
162.1	0.00000e+00	0.00000e+00	0.00000e+00
162.2	0.00000e+00	0.00000e+00	0.00000e+00
162.3	0.00000e+00	0.00000e+00	0.00000e+00
162.4	0.00000e+00	0.00000e+00	0.00000e+00
162.5	0.00000e+00	0.00000e+00	0.00000e+00
162.6	0.00000e+00	0.00000e+00	0.00000e+00
162.7	0.00000e+00	0.00000e+00	0.00000e+00
162.8	0.00000e+00	0.00000e+00	0.00000e+00
162.9	0.00000e+00	0.00000e+00	0.00000e+00
163.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
163.1	0.00000e+00	0.00000e+00	0.00000e+00
163.2	0.00000e+00	0.00000e+00	0.00000e+00
163.3	0.00000e+00	0.00000e+00	0.00000e+00
163.4	0.00000e+00	0.00000e+00	0.00000e+00
163.5	0.00000e+00	0.00000e+00	0.00000e+00
163.6	0.00000e+00	0.00000e+00	0.00000e+00
163.7	0.00000e+00	0.00000e+00	0.00000e+00
163.8	0.00000e+00	0.00000e+00	0.00000e+00
163.9	0.00000e+00	0.00000e+00	0.00000e+00
164.0	0.00000e+00	0.00000e+00	0.00000e+00
164.1	0.00000e+00	0.00000e+00	0.00000e+00
164.2	0.00000e+00	0.00000e+00	0.00000e+00
164.3	0.00000e+00	0.00000e+00	0.00000e+00
164.4	0.00000e+00	0.00000e+00	0.00000e+00
164.5	0.00000e+00	0.00000e+00	0.00000e+00
164.6	0.00000e+00	0.00000e+00	0.00000e+00
164.7	0.00000e+00	0.00000e+00	0.00000e+00
164.8	0.00000e+00	0.00000e+00	0.00000e+00
164.9	0.00000e+00	0.00000e+00	0.00000e+00
165.0	0.00000e+00	0.00000e+00	0.00000e+00
165.1	0.00000e+00	0.00000e+00	0.00000e+00
165.2	0.00000e+00	0.00000e+00	0.00000e+00
165.3	0.00000e+00	0.00000e+00	0.00000e+00
165.4	0.00000e+00	0.00000e+00	0.00000e+00
165.5	0.00000e+00	0.00000e+00	0.00000e+00
165.6	0.00000e+00	0.00000e+00	0.00000e+00
165.7	0.00000e+00	0.00000e+00	0.00000e+00
165.8	0.00000e+00	0.00000e+00	0.00000e+00
165.9	0.00000e+00	0.00000e+00	0.00000e+00
166.0	0.00000e+00	0.00000e+00	0.00000e+00
166.1	0.00000e+00	0.00000e+00	0.00000e+00
166.2	0.00000e+00	0.00000e+00	0.00000e+00
166.3	0.00000e+00	0.00000e+00	0.00000e+00
166.4	0.00000e+00	0.00000e+00	0.00000e+00
166.5	0.00000e+00	0.00000e+00	0.00000e+00
166.6	0.00000e+00	0.00000e+00	0.00000e+00
166.7	0.00000e+00	0.00000e+00	0.00000e+00
166.8	0.00000e+00	0.00000e+00	0.00000e+00
166.9	0.00000e+00	0.00000e+00	0.00000e+00
167.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
167.1	0.00000e+00	0.00000e+00	0.00000e+00
167.2	0.00000e+00	0.00000e+00	0.00000e+00
167.3	0.00000e+00	0.00000e+00	0.00000e+00
167.4	0.00000e+00	0.00000e+00	0.00000e+00
167.5	0.00000e+00	0.00000e+00	0.00000e+00
167.6	0.00000e+00	0.00000e+00	0.00000e+00
167.7	0.00000e+00	0.00000e+00	0.00000e+00
167.8	0.00000e+00	0.00000e+00	0.00000e+00
167.9	0.00000e+00	0.00000e+00	0.00000e+00
168.0	0.00000e+00	0.00000e+00	0.00000e+00
168.1	0.00000e+00	0.00000e+00	0.00000e+00
168.2	0.00000e+00	0.00000e+00	0.00000e+00
168.3	0.00000e+00	0.00000e+00	0.00000e+00
168.4	0.00000e+00	0.00000e+00	0.00000e+00
168.5	0.00000e+00	0.00000e+00	0.00000e+00
168.6	0.00000e+00	0.00000e+00	0.00000e+00
168.7	0.00000e+00	0.00000e+00	0.00000e+00
168.8	0.00000e+00	0.00000e+00	0.00000e+00
168.9	0.00000e+00	0.00000e+00	0.00000e+00
169.0	0.00000e+00	0.00000e+00	0.00000e+00
169.1	0.00000e+00	0.00000e+00	0.00000e+00
169.2	0.00000e+00	0.00000e+00	0.00000e+00
169.3	0.00000e+00	0.00000e+00	0.00000e+00
169.4	0.00000e+00	0.00000e+00	0.00000e+00
169.5	0.00000e+00	0.00000e+00	0.00000e+00
169.6	0.00000e+00	0.00000e+00	0.00000e+00
169.7	0.00000e+00	0.00000e+00	0.00000e+00
169.8	0.00000e+00	0.00000e+00	0.00000e+00
169.9	0.00000e+00	0.00000e+00	0.00000e+00
170.0	0.00000e+00	0.00000e+00	0.00000e+00
170.1	0.00000e+00	0.00000e+00	0.00000e+00
170.2	0.00000e+00	0.00000e+00	0.00000e+00
170.3	0.00000e+00	0.00000e+00	0.00000e+00
170.4	0.00000e+00	0.00000e+00	0.00000e+00
170.5	0.00000e+00	0.00000e+00	0.00000e+00
170.6	0.00000e+00	0.00000e+00	0.00000e+00
170.7	0.00000e+00	0.00000e+00	0.00000e+00
170.8	0.00000e+00	0.00000e+00	0.00000e+00
170.9	0.00000e+00	0.00000e+00	0.00000e+00
171.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
171.1	0.00000e+00	0.00000e+00	0.00000e+00
171.2	0.00000e+00	0.00000e+00	0.00000e+00
171.3	0.00000e+00	0.00000e+00	0.00000e+00
171.4	0.00000e+00	0.00000e+00	0.00000e+00
171.5	0.00000e+00	0.00000e+00	0.00000e+00
171.6	0.00000e+00	0.00000e+00	0.00000e+00
171.7	0.00000e+00	0.00000e+00	0.00000e+00
171.8	0.00000e+00	0.00000e+00	0.00000e+00
171.9	0.00000e+00	0.00000e+00	0.00000e+00
172.0	0.00000e+00	0.00000e+00	0.00000e+00
172.1	0.00000e+00	0.00000e+00	0.00000e+00
172.2	0.00000e+00	0.00000e+00	0.00000e+00
172.3	0.00000e+00	0.00000e+00	0.00000e+00
172.4	0.00000e+00	0.00000e+00	0.00000e+00
172.5	0.00000e+00	0.00000e+00	0.00000e+00
172.6	0.00000e+00	0.00000e+00	0.00000e+00
172.7	0.00000e+00	0.00000e+00	0.00000e+00
172.8	0.00000e+00	0.00000e+00	0.00000e+00
172.9	0.00000e+00	0.00000e+00	0.00000e+00
173.0	0.00000e+00	0.00000e+00	0.00000e+00
173.1	0.00000e+00	0.00000e+00	0.00000e+00
173.2	0.00000e+00	0.00000e+00	0.00000e+00
173.3	0.00000e+00	0.00000e+00	0.00000e+00
173.4	0.00000e+00	0.00000e+00	0.00000e+00
173.5	0.00000e+00	0.00000e+00	0.00000e+00
173.6	0.00000e+00	0.00000e+00	0.00000e+00
173.7	0.00000e+00	0.00000e+00	0.00000e+00
173.8	0.00000e+00	0.00000e+00	0.00000e+00
173.9	0.00000e+00	0.00000e+00	0.00000e+00
174.0	0.00000e+00	0.00000e+00	0.00000e+00
174.1	0.00000e+00	0.00000e+00	0.00000e+00
174.2	0.00000e+00	0.00000e+00	0.00000e+00
174.3	0.00000e+00	0.00000e+00	0.00000e+00
174.4	0.00000e+00	0.00000e+00	0.00000e+00
174.5	0.00000e+00	0.00000e+00	0.00000e+00
174.6	0.00000e+00	0.00000e+00	0.00000e+00
174.7	0.00000e+00	0.00000e+00	0.00000e+00
174.8	0.00000e+00	0.00000e+00	0.00000e+00
174.9	0.00000e+00	0.00000e+00	0.00000e+00
175.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
175.1	0.00000e+00	0.00000e+00	0.00000e+00
175.2	0.00000e+00	0.00000e+00	0.00000e+00
175.3	0.00000e+00	0.00000e+00	0.00000e+00
175.4	0.00000e+00	0.00000e+00	0.00000e+00
175.5	0.00000e+00	0.00000e+00	0.00000e+00
175.6	0.00000e+00	0.00000e+00	0.00000e+00
175.7	0.00000e+00	0.00000e+00	0.00000e+00
175.8	0.00000e+00	0.00000e+00	0.00000e+00
175.9	0.00000e+00	0.00000e+00	0.00000e+00
176.0	0.00000e+00	0.00000e+00	0.00000e+00
176.1	0.00000e+00	0.00000e+00	0.00000e+00
176.2	0.00000e+00	0.00000e+00	0.00000e+00
176.3	0.00000e+00	0.00000e+00	0.00000e+00
176.4	0.00000e+00	0.00000e+00	0.00000e+00
176.5	0.00000e+00	0.00000e+00	0.00000e+00
176.6	0.00000e+00	0.00000e+00	0.00000e+00
176.7	0.00000e+00	0.00000e+00	0.00000e+00
176.8	0.00000e+00	0.00000e+00	0.00000e+00
176.9	0.00000e+00	0.00000e+00	0.00000e+00
177.0	0.00000e+00	0.00000e+00	0.00000e+00
177.1	0.00000e+00	0.00000e+00	0.00000e+00
177.2	0.00000e+00	0.00000e+00	0.00000e+00
177.3	0.00000e+00	0.00000e+00	0.00000e+00
177.4	0.00000e+00	0.00000e+00	0.00000e+00
177.5	0.00000e+00	0.00000e+00	0.00000e+00
177.6	0.00000e+00	0.00000e+00	0.00000e+00
177.7	0.00000e+00	0.00000e+00	0.00000e+00
177.8	0.00000e+00	0.00000e+00	0.00000e+00
177.9	0.00000e+00	0.00000e+00	0.00000e+00
178.0	0.00000e+00	0.00000e+00	0.00000e+00
178.1	0.00000e+00	0.00000e+00	0.00000e+00
178.2	0.00000e+00	0.00000e+00	0.00000e+00
178.3	0.00000e+00	0.00000e+00	0.00000e+00
178.4	0.00000e+00	0.00000e+00	0.00000e+00
178.5	0.00000e+00	0.00000e+00	0.00000e+00
178.6	0.00000e+00	0.00000e+00	0.00000e+00
178.7	0.00000e+00	0.00000e+00	0.00000e+00
178.8	0.00000e+00	0.00000e+00	0.00000e+00
178.9	0.00000e+00	0.00000e+00	0.00000e+00
179.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
179.1	0.00000e+00	0.00000e+00	0.00000e+00
179.2	0.00000e+00	0.00000e+00	0.00000e+00
179.3	0.00000e+00	0.00000e+00	0.00000e+00
179.4	0.00000e+00	0.00000e+00	0.00000e+00
179.5	0.00000e+00	0.00000e+00	0.00000e+00
179.6	0.00000e+00	0.00000e+00	0.00000e+00
179.7	0.00000e+00	0.00000e+00	0.00000e+00
179.8	0.00000e+00	0.00000e+00	0.00000e+00
179.9	0.00000e+00	0.00000e+00	0.00000e+00
180.0	0.00000e+00	0.00000e+00	0.00000e+00
180.1	0.00000e+00	0.00000e+00	0.00000e+00
180.2	0.00000e+00	0.00000e+00	0.00000e+00
180.3	0.00000e+00	0.00000e+00	0.00000e+00
180.4	0.00000e+00	0.00000e+00	0.00000e+00
180.5	0.00000e+00	0.00000e+00	0.00000e+00
180.6	0.00000e+00	0.00000e+00	0.00000e+00
180.7	0.00000e+00	0.00000e+00	0.00000e+00
180.8	0.00000e+00	0.00000e+00	0.00000e+00
180.9	0.00000e+00	0.00000e+00	0.00000e+00
181.0	0.00000e+00	0.00000e+00	0.00000e+00
181.1	0.00000e+00	0.00000e+00	0.00000e+00
181.2	0.00000e+00	0.00000e+00	0.00000e+00
181.3	0.00000e+00	0.00000e+00	0.00000e+00
181.4	0.00000e+00	0.00000e+00	0.00000e+00
181.5	0.00000e+00	0.00000e+00	0.00000e+00
181.6	0.00000e+00	0.00000e+00	0.00000e+00
181.7	0.00000e+00	0.00000e+00	0.00000e+00
181.8	0.00000e+00	0.00000e+00	0.00000e+00
181.9	0.00000e+00	0.00000e+00	0.00000e+00
182.0	0.00000e+00	0.00000e+00	0.00000e+00
182.1	0.00000e+00	0.00000e+00	0.00000e+00
182.2	0.00000e+00	0.00000e+00	0.00000e+00
182.3	0.00000e+00	0.00000e+00	0.00000e+00
182.4	0.00000e+00	0.00000e+00	0.00000e+00
182.5	0.00000e+00	0.00000e+00	0.00000e+00
182.6	0.00000e+00	0.00000e+00	0.00000e+00
182.7	0.00000e+00	0.00000e+00	0.00000e+00
182.8	0.00000e+00	0.00000e+00	0.00000e+00
182.9	0.00000e+00	0.00000e+00	0.00000e+00
183.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
183.1	0.00000e+00	0.00000e+00	0.00000e+00
183.2	0.00000e+00	0.00000e+00	0.00000e+00
183.3	0.00000e+00	0.00000e+00	0.00000e+00
183.4	0.00000e+00	0.00000e+00	0.00000e+00
183.5	0.00000e+00	0.00000e+00	0.00000e+00
183.6	0.00000e+00	0.00000e+00	0.00000e+00
183.7	0.00000e+00	0.00000e+00	0.00000e+00
183.8	0.00000e+00	0.00000e+00	0.00000e+00
183.9	0.00000e+00	0.00000e+00	0.00000e+00
184.0	0.00000e+00	0.00000e+00	0.00000e+00
184.1	0.00000e+00	0.00000e+00	0.00000e+00
184.2	0.00000e+00	0.00000e+00	0.00000e+00
184.3	0.00000e+00	0.00000e+00	0.00000e+00
184.4	0.00000e+00	0.00000e+00	0.00000e+00
184.5	0.00000e+00	0.00000e+00	0.00000e+00
184.6	0.00000e+00	0.00000e+00	0.00000e+00
184.7	0.00000e+00	0.00000e+00	0.00000e+00
184.8	0.00000e+00	0.00000e+00	0.00000e+00
184.9	0.00000e+00	0.00000e+00	0.00000e+00
185.0	0.00000e+00	0.00000e+00	0.00000e+00
185.1	0.00000e+00	0.00000e+00	0.00000e+00
185.2	0.00000e+00	0.00000e+00	0.00000e+00
185.3	0.00000e+00	0.00000e+00	0.00000e+00
185.4	0.00000e+00	0.00000e+00	0.00000e+00
185.5	0.00000e+00	0.00000e+00	0.00000e+00
185.6	0.00000e+00	0.00000e+00	0.00000e+00
185.7	0.00000e+00	0.00000e+00	0.00000e+00
185.8	0.00000e+00	0.00000e+00	0.00000e+00
185.9	0.00000e+00	0.00000e+00	0.00000e+00
186.0	0.00000e+00	0.00000e+00	0.00000e+00
186.1	0.00000e+00	0.00000e+00	0.00000e+00
186.2	0.00000e+00	0.00000e+00	0.00000e+00
186.3	0.00000e+00	0.00000e+00	0.00000e+00
186.4	0.00000e+00	0.00000e+00	0.00000e+00
186.5	0.00000e+00	0.00000e+00	0.00000e+00
186.6	0.00000e+00	0.00000e+00	0.00000e+00
186.7	0.00000e+00	0.00000e+00	0.00000e+00
186.8	0.00000e+00	0.00000e+00	0.00000e+00
186.9	0.00000e+00	0.00000e+00	0.00000e+00
187.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
187.1	0.00000e+00	0.00000e+00	0.00000e+00
187.2	0.00000e+00	0.00000e+00	0.00000e+00
187.3	0.00000e+00	0.00000e+00	0.00000e+00
187.4	0.00000e+00	0.00000e+00	0.00000e+00
187.5	0.00000e+00	0.00000e+00	0.00000e+00
187.6	0.00000e+00	0.00000e+00	0.00000e+00
187.7	0.00000e+00	0.00000e+00	0.00000e+00
187.8	0.00000e+00	0.00000e+00	0.00000e+00
187.9	0.00000e+00	0.00000e+00	0.00000e+00
188.0	0.00000e+00	0.00000e+00	0.00000e+00
188.1	0.00000e+00	0.00000e+00	0.00000e+00
188.2	0.00000e+00	0.00000e+00	0.00000e+00
188.3	0.00000e+00	0.00000e+00	0.00000e+00
188.4	0.00000e+00	0.00000e+00	0.00000e+00
188.5	0.00000e+00	0.00000e+00	0.00000e+00
188.6	0.00000e+00	0.00000e+00	0.00000e+00
188.7	0.00000e+00	0.00000e+00	0.00000e+00
188.8	0.00000e+00	0.00000e+00	0.00000e+00
188.9	0.00000e+00	0.00000e+00	0.00000e+00
189.0	0.00000e+00	0.00000e+00	0.00000e+00
189.1	0.00000e+00	0.00000e+00	0.00000e+00
189.2	0.00000e+00	0.00000e+00	0.00000e+00
189.3	0.00000e+00	0.00000e+00	0.00000e+00
189.4	0.00000e+00	0.00000e+00	0.00000e+00
189.5	0.00000e+00	0.00000e+00	0.00000e+00
189.6	0.00000e+00	0.00000e+00	0.00000e+00
189.7	0.00000e+00	0.00000e+00	0.00000e+00
189.8	0.00000e+00	0.00000e+00	0.00000e+00
189.9	0.00000e+00	0.00000e+00	0.00000e+00
190.0	0.00000e+00	0.00000e+00	0.00000e+00
190.1	0.00000e+00	0.00000e+00	0.00000e+00
190.2	0.00000e+00	0.00000e+00	0.00000e+00
190.3	0.00000e+00	0.00000e+00	0.00000e+00
190.4	0.00000e+00	0.00000e+00	0.00000e+00
190.5	0.00000e+00	0.00000e+00	0.00000e+00
190.6	0.00000e+00	0.00000e+00	0.00000e+00
190.7	0.00000e+00	0.00000e+00	0.00000e+00
190.8	0.00000e+00	0.00000e+00	0.00000e+00
190.9	0.00000e+00	0.00000e+00	0.00000e+00
191.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
191.1	0.00000e+00	0.00000e+00	0.00000e+00
191.2	0.00000e+00	0.00000e+00	0.00000e+00
191.3	0.00000e+00	0.00000e+00	0.00000e+00
191.4	0.00000e+00	0.00000e+00	0.00000e+00
191.5	0.00000e+00	0.00000e+00	0.00000e+00
191.6	0.00000e+00	0.00000e+00	0.00000e+00
191.7	0.00000e+00	0.00000e+00	0.00000e+00
191.8	0.00000e+00	0.00000e+00	0.00000e+00
191.9	0.00000e+00	0.00000e+00	0.00000e+00
192.0	0.00000e+00	0.00000e+00	0.00000e+00
192.1	0.00000e+00	0.00000e+00	0.00000e+00
192.2	0.00000e+00	0.00000e+00	0.00000e+00
192.3	0.00000e+00	0.00000e+00	0.00000e+00
192.4	0.00000e+00	0.00000e+00	0.00000e+00
192.5	0.00000e+00	0.00000e+00	0.00000e+00
192.6	0.00000e+00	0.00000e+00	0.00000e+00
192.7	0.00000e+00	0.00000e+00	0.00000e+00
192.8	0.00000e+00	0.00000e+00	0.00000e+00
192.9	0.00000e+00	0.00000e+00	0.00000e+00
193.0	0.00000e+00	0.00000e+00	0.00000e+00
193.1	0.00000e+00	0.00000e+00	0.00000e+00
193.2	0.00000e+00	0.00000e+00	0.00000e+00
193.3	0.00000e+00	0.00000e+00	0.00000e+00
193.4	0.00000e+00	0.00000e+00	0.00000e+00
193.5	0.00000e+00	0.00000e+00	0.00000e+00
193.6	0.00000e+00	0.00000e+00	0.00000e+00
193.7	0.00000e+00	0.00000e+00	0.00000e+00
193.8	0.00000e+00	0.00000e+00	0.00000e+00
193.9	0.00000e+00	0.00000e+00	0.00000e+00
194.0	0.00000e+00	0.00000e+00	0.00000e+00
194.1	0.00000e+00	0.00000e+00	0.00000e+00
194.2	0.00000e+00	0.00000e+00	0.00000e+00
194.3	0.00000e+00	0.00000e+00	0.00000e+00
194.4	0.00000e+00	0.00000e+00	0.00000e+00
194.5	0.00000e+00	0.00000e+00	0.00000e+00
194.6	0.00000e+00	0.00000e+00	0.00000e+00
194.7	0.00000e+00	0.00000e+00	0.00000e+00
194.8	0.00000e+00	0.00000e+00	0.00000e+00
194.9	0.00000e+00	0.00000e+00	0.00000e+00
195.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
195.1	0.00000e+00	0.00000e+00	0.00000e+00
195.2	0.00000e+00	0.00000e+00	0.00000e+00
195.3	0.00000e+00	0.00000e+00	0.00000e+00
195.4	0.00000e+00	0.00000e+00	0.00000e+00
195.5	0.00000e+00	0.00000e+00	0.00000e+00
195.6	0.00000e+00	0.00000e+00	0.00000e+00
195.7	0.00000e+00	0.00000e+00	0.00000e+00
195.8	0.00000e+00	0.00000e+00	0.00000e+00
195.9	0.00000e+00	0.00000e+00	0.00000e+00
196.0	0.00000e+00	0.00000e+00	0.00000e+00
196.1	0.00000e+00	0.00000e+00	0.00000e+00
196.2	0.00000e+00	0.00000e+00	0.00000e+00
196.3	0.00000e+00	0.00000e+00	0.00000e+00
196.4	0.00000e+00	0.00000e+00	0.00000e+00
196.5	0.00000e+00	0.00000e+00	0.00000e+00
196.6	0.00000e+00	0.00000e+00	0.00000e+00
196.7	0.00000e+00	0.00000e+00	0.00000e+00
196.8	0.00000e+00	0.00000e+00	0.00000e+00
196.9	0.00000e+00	0.00000e+00	0.00000e+00
197.0	0.00000e+00	0.00000e+00	0.00000e+00
197.1	0.00000e+00	0.00000e+00	0.00000e+00
197.2	0.00000e+00	0.00000e+00	0.00000e+00
197.3	0.00000e+00	0.00000e+00	0.00000e+00
197.4	0.00000e+00	0.00000e+00	0.00000e+00
197.5	0.00000e+00	0.00000e+00	0.00000e+00
197.6	0.00000e+00	0.00000e+00	0.00000e+00
197.7	0.00000e+00	0.00000e+00	0.00000e+00
197.8	0.00000e+00	0.00000e+00	0.00000e+00
197.9	0.00000e+00	0.00000e+00	0.00000e+00
198.0	0.00000e+00	0.00000e+00	0.00000e+00
198.1	0.00000e+00	0.00000e+00	0.00000e+00
198.2	0.00000e+00	0.00000e+00	0.00000e+00
198.3	0.00000e+00	0.00000e+00	0.00000e+00
198.4	0.00000e+00	0.00000e+00	0.00000e+00
198.5	0.00000e+00	0.00000e+00	0.00000e+00
198.6	0.00000e+00	0.00000e+00	0.00000e+00
198.7	0.00000e+00	0.00000e+00	0.00000e+00
198.8	0.00000e+00	0.00000e+00	0.00000e+00
198.9	0.00000e+00	0.00000e+00	0.00000e+00
199.0	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
199.1	0.00000e+00	0.00000e+00	0.00000e+00
199.2	0.00000e+00	0.00000e+00	0.00000e+00
199.3	0.00000e+00	0.00000e+00	0.00000e+00
199.4	0.00000e+00	0.00000e+00	0.00000e+00
199.5	0.00000e+00	0.00000e+00	0.00000e+00
199.6	0.00000e+00	0.00000e+00	0.00000e+00
199.7	0.00000e+00	0.00000e+00	0.00000e+00
199.8	0.00000e+00	0.00000e+00	0.00000e+00
199.9	0.00000e+00	0.00000e+00	0.00000e+00
200.0	0.00000e+00	0.00000e+00	0.00000e+00

Table B.7.7: Output for Problem 7.1-Th226

x	$A(x)$	P_{v1}	P_{v2}
0.0	0.00000e+00	0.00000e+00	0.00000e+00
0.1	3.02461e-04	3.23340e-04	3.23340e-04
0.2	8.95477e-05	1.02822e-04	1.02822e-04
0.3	2.65119e-05	1.02822e-04	1.02822e-04
0.4	7.84921e-06	1.03977e-05	1.03977e-05
0.5	2.32387e-06	3.30647e-06	3.30647e-06
0.6	6.88014e-07	3.30647e-06	3.30647e-06
0.7	2.03696e-07	3.30647e-06	3.30647e-06
0.8	6.03071e-08	1.06327e-07	1.06327e-07
0.9	1.78548e-08	3.38119e-08	3.38119e-08
1.0	5.28616e-09	1.07522e-08	1.07522e-08
1.1	1.56504e-09	3.41918e-09	3.41918e-09
1.2	4.63352e-10	3.41918e-09	3.41918e-09
1.3	1.37182e-10	3.45760e-10	3.45760e-10
1.4	4.06147e-11	3.45760e-10	3.45760e-10
1.5	1.20245e-11	3.49645e-11	3.49645e-11
1.6	3.56003e-12	1.11187e-11	1.11187e-11
1.7	1.05400e-12	1.11187e-11	1.11187e-11
1.8	3.12051e-13	1.12436e-12	1.12436e-12
1.9	9.23871e-14	1.12436e-12	1.12436e-12
2.0	2.73525e-14	1.13699e-13	1.13699e-13
2.1	8.09809e-15	3.61563e-14	3.61563e-14
2.2	2.39755e-15	1.14977e-14	1.14977e-14
2.3	7.09829e-16	1.14977e-14	1.14977e-14
2.4	2.10155e-16	1.14977e-14	1.14977e-14

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x	$A(x)$	P_{v1}	P_{v2}
2.5	6.22193e-17	3.69734e-16	3.69734e-16
2.6	1.84209e-17	1.17575e-16	1.17575e-16
2.7	5.45377e-18	3.73888e-17	3.73888e-17
2.8	1.61466e-18	3.73888e-17	3.73888e-17
2.9	4.78044e-19	3.73888e-17	3.73888e-17
3.0	1.41532e-19	1.20232e-18	1.20232e-18
3.1	4.19024e-20	3.82337e-19	3.82337e-19
3.2	1.24058e-20	1.21583e-19	1.21583e-19
3.3	3.67291e-21	1.21583e-19	1.21583e-19
3.4	1.08742e-21	1.21583e-19	1.21583e-19
3.5	3.21945e-22	3.90977e-21	3.90977e-21
3.6	9.53164e-23	1.24331e-21	1.24331e-21
3.7	2.82198e-23	3.95370e-22	3.95370e-22
3.8	8.35486e-24	3.95370e-22	3.95370e-22
3.9	2.47357e-24	3.95370e-22	3.95370e-22
4.0	7.32336e-25	1.27140e-23	1.27140e-23
4.1	2.16818e-25	1.27140e-23	1.27140e-23
4.2	6.41921e-26	1.28569e-24	1.28569e-24
4.3	1.90050e-26	4.08848e-25	4.08848e-25
4.4	5.62669e-27	1.30013e-25	1.30013e-25
4.5	1.66586e-27	4.13441e-26	4.13441e-26
4.6	4.93202e-28	4.13441e-26	4.13441e-26
4.7	1.46019e-28	4.18087e-27	4.18087e-27
4.8	4.32311e-29	4.18087e-27	4.18087e-27
4.9	1.27992e-29	4.22784e-28	4.22784e-28
5.0	3.78937e-30	1.34445e-28	1.34445e-28
5.1	1.12190e-30	1.34445e-28	1.34445e-28
5.2	3.32153e-31	1.35956e-29	1.35956e-29
5.3	9.83387e-32	1.35956e-29	1.35956e-29
5.4	2.91146e-32	1.37483e-30	1.37483e-30
5.5	8.61977e-33	4.37196e-31	4.37196e-31
5.6	2.55200e-33	4.37196e-31	4.37196e-31
5.7	7.55557e-34	4.42108e-32	4.42108e-32
5.8	2.23693e-34	4.42108e-32	4.42108e-32
5.9	6.62275e-35	4.47076e-33	4.47076e-33
6.0	1.96076e-35	1.42170e-33	1.42170e-33
6.1	5.80510e-36	1.42170e-33	1.42170e-33
6.2	1.71868e-36	1.43767e-34	1.43767e-34
6.3	5.08840e-37	1.43767e-34	1.43767e-34
6.4	1.50649e-37	1.45383e-35	1.45383e-35

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x	$A(x)$	P_{v1}	P_{v2}
6.5	4.46018e-38	4.62316e-36	4.62316e-36
6.6	1.32050e-38	4.62316e-36	4.62316e-36
6.7	3.90952e-39	4.67510e-37	4.67510e-37
6.8	1.15747e-39	4.67510e-37	4.67510e-37
6.9	3.42685e-40	4.72763e-38	4.72763e-38
7.0	1.01457e-40	1.50338e-38	1.50338e-38
7.1	3.00377e-41	1.50338e-38	1.50338e-38
7.2	8.89308e-42	1.52028e-39	1.52028e-39
7.3	2.63292e-42	1.52028e-39	1.52028e-39
7.4	7.79514e-43	1.53736e-40	1.53736e-40
7.5	2.30786e-43	4.88879e-41	4.88879e-41
7.6	6.83274e-44	4.88879e-41	4.88879e-41
7.7	2.02293e-44	4.94372e-42	4.94372e-42
7.8	5.98917e-45	4.94372e-42	4.94372e-42
7.9	1.77318e-45	4.99926e-43	4.99926e-43
8.0	5.24974e-46	1.58976e-43	1.58976e-43
8.1	1.55426e-46	5.05543e-44	5.05543e-44
8.2	4.60160e-47	5.05543e-44	5.05543e-44
8.3	1.36237e-47	5.11224e-45	5.11224e-45
8.4	4.03349e-48	1.62569e-45	1.62569e-45
8.5	1.19417e-48	5.16968e-46	5.16968e-46
8.6	3.53551e-49	1.64395e-46	1.64395e-46
8.7	1.04674e-49	1.64395e-46	1.64395e-46
8.8	3.09901e-50	1.66243e-47	1.66243e-47
8.9	9.17506e-51	5.28650e-48	5.28650e-48
9.0	2.71641e-51	1.68110e-48	1.68110e-48
9.1	8.04230e-52	5.34590e-49	5.34590e-49
9.2	2.38104e-52	5.34590e-49	5.34590e-49
9.3	7.04939e-53	5.40597e-50	5.40597e-50
9.4	2.08707e-53	1.71909e-50	1.71909e-50
9.5	6.17907e-54	5.46671e-51	5.46671e-51
9.6	1.82940e-54	5.46671e-51	5.46671e-51
9.7	5.41620e-55	5.46671e-51	5.46671e-51
9.8	1.60354e-55	1.75794e-52	1.75794e-52
9.9	4.74751e-56	5.59024e-53	5.59024e-53
10.0	1.40557e-56	1.77769e-53	1.77769e-53
10.1	4.16138e-57	1.77769e-53	1.77769e-53
10.2	1.23203e-57	1.77769e-53	1.77769e-53
10.3	3.64761e-58	5.71657e-55	5.71657e-55
10.4	1.07993e-58	1.81787e-55	1.81787e-55

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x	$A(x)$	P_{v1}	P_{v2}
10.5	3.19727e-59	5.78080e-56	5.78080e-56
10.6	9.46598e-60	5.78080e-56	5.78080e-56
10.7	2.80254e-60	5.78080e-56	5.78080e-56
10.8	8.29730e-61	1.85895e-57	1.85895e-57
10.9	2.45653e-61	5.91144e-58	5.91144e-58
11.0	7.27291e-62	1.87983e-58	1.87983e-58
11.1	2.15325e-62	1.87983e-58	1.87983e-58
11.2	6.37499e-63	1.87983e-58	1.87983e-58
11.3	1.88741e-63	6.04503e-60	6.04503e-60
11.4	5.58793e-64	1.92231e-60	1.92231e-60
11.5	1.65439e-64	6.11295e-61	6.11295e-61
11.6	4.89804e-65	6.11295e-61	6.11295e-61
11.7	1.45013e-65	6.11295e-61	6.11295e-61
11.8	4.29332e-66	1.96575e-62	1.96575e-62
11.9	1.27110e-66	6.25109e-63	6.25109e-63
12.0	3.76327e-67	1.98784e-63	1.98784e-63
12.1	1.11417e-67	1.98784e-63	1.98784e-63
12.2	3.29865e-68	1.98784e-63	1.98784e-63
12.3	9.76612e-69	6.39235e-65	6.39235e-65
12.4	2.89140e-69	2.03276e-65	2.03276e-65
12.5	8.56039e-70	6.46417e-66	6.46417e-66
12.6	2.53442e-70	6.46417e-66	6.46417e-66
12.7	7.50352e-71	6.46417e-66	6.46417e-66
12.8	2.22152e-71	2.07870e-67	2.07870e-67
12.9	6.57713e-72	6.61025e-68	6.61025e-68
13.0	1.94725e-72	2.10206e-68	2.10206e-68
13.1	5.76511e-73	2.10206e-68	2.10206e-68
13.2	1.70684e-73	2.10206e-68	2.10206e-68
13.3	5.05335e-74	6.75963e-70	6.75963e-70
13.4	1.49611e-74	2.14956e-70	2.14956e-70
13.5	4.42946e-75	6.83558e-71	6.83558e-71
13.6	1.31140e-75	6.83558e-71	6.83558e-71
13.7	3.88259e-76	6.83558e-71	6.83558e-71
13.8	1.14950e-76	2.19813e-72	2.19813e-72
13.9	3.40324e-77	6.99005e-73	6.99005e-73
14.0	1.00758e-77	2.22283e-73	2.22283e-73
14.1	2.98308e-78	2.22283e-73	2.22283e-73
14.2	8.83182e-79	2.22283e-73	2.22283e-73
14.3	2.61478e-79	7.14801e-75	7.14801e-75
14.4	7.74143e-80	2.27306e-75	2.27306e-75

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x	$A(x)$	P_{v1}	P_{v2}
14.5	2.29196e-80	7.22833e-76	7.22833e-76
14.6	6.78567e-81	7.22833e-76	7.22833e-76
14.7	2.00899e-81	7.22833e-76	7.22833e-76
14.8	5.94791e-82	2.32443e-77	2.32443e-77
14.9	1.76096e-82	7.39167e-78	7.39167e-78
15.0	5.21357e-83	2.35055e-78	2.35055e-78
15.1	1.54355e-83	2.35055e-78	2.35055e-78
15.2	4.56990e-84	2.35055e-78	2.35055e-78
15.3	1.35298e-84	7.55871e-80	7.55871e-80
15.4	4.00570e-85	2.40366e-80	2.40366e-80
15.5	1.18594e-85	7.64364e-81	7.64364e-81
15.6	3.51115e-86	7.64364e-81	7.64364e-81
15.7	1.03953e-86	7.64364e-81	7.64364e-81
15.8	3.07766e-87	2.45798e-82	2.45798e-82
15.9	9.11185e-88	7.81637e-83	7.81637e-83
16.0	2.69769e-88	2.48560e-83	2.48560e-83
16.1	7.98690e-89	7.90419e-84	7.90419e-84
16.2	2.36463e-89	2.51353e-84	2.51353e-84
16.3	7.00083e-90	7.99300e-85	7.99300e-85
16.4	2.07269e-90	7.99300e-85	7.99300e-85
16.5	6.13650e-91	8.08281e-86	8.08281e-86
16.6	1.81680e-91	2.57033e-86	2.57033e-86
16.7	5.37888e-92	8.17363e-87	8.17363e-87
16.8	1.59249e-92	2.59921e-87	2.59921e-87
16.9	4.71480e-93	2.59921e-87	2.59921e-87
17.0	1.39588e-93	2.62841e-88	2.62841e-88
17.1	4.13271e-94	8.35834e-89	8.35834e-89
17.2	1.22355e-94	2.65795e-89	2.65795e-89
17.3	3.62248e-95	8.45225e-90	8.45225e-90
17.4	1.07249e-95	8.45225e-90	8.45225e-90
17.5	3.17525e-96	8.54722e-91	8.54722e-91
17.6	9.40077e-97	2.71801e-91	2.71801e-91
17.7	2.78323e-97	8.64326e-92	8.64326e-92
17.8	8.24014e-98	2.74855e-92	2.74855e-92
17.9	2.43961e-98	2.74855e-92	2.74855e-92
18.0	7.22281e-99	2.77943e-93	2.77943e-93
18.1	2.13841e-99	8.83858e-94	8.83858e-94
18.2	6.33107e-100	2.81066e-94	2.81066e-94
18.3	1.87440e-100	8.93789e-95	8.93789e-95
18.4	5.54943e-101	8.93789e-95	8.93789e-95

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x	$A(x)$	P_{v1}	P_{v2}
18.5	1.64299e-101	9.03831e-96	9.03831e-96
18.6	4.86430e-102	2.87418e-96	2.87418e-96
18.7	1.44014e-102	9.13986e-97	9.13986e-97
18.8	4.26375e-103	2.90647e-97	2.90647e-97
18.9	1.26234e-103	2.90647e-97	2.90647e-97
19.0	3.73734e-104	2.93913e-98	2.93913e-98
19.1	1.10649e-104	9.34641e-99	9.34641e-99
19.2	3.27593e-105	9.34641e-99	9.34641e-99
19.3	9.69884e-106	9.45142e-100	9.45142e-100
19.4	2.87148e-106	9.45142e-100	9.45142e-100
19.5	8.50142e-107	9.55762e-101	9.55762e-101
19.6	2.51696e-107	3.03932e-101	3.03932e-101
19.7	7.45182e-108	3.03932e-101	3.03932e-101
19.8	2.20622e-108	3.07347e-102	3.07347e-102
19.9	6.53182e-109	3.07347e-102	3.07347e-102
20.0	1.93384e-109	3.10800e-103	3.10800e-103
20.1	5.72539e-110	9.88342e-104	9.88342e-104
20.2	1.69508e-110	9.88342e-104	9.88342e-104
20.3	5.01853e-111	9.99447e-105	9.99447e-105
20.4	1.48581e-111	9.99447e-105	9.99447e-105
20.5	4.39894e-112	1.01068e-105	1.01068e-105
20.6	1.30237e-112	3.21394e-106	3.21394e-106
20.7	3.85584e-113	3.21394e-106	3.21394e-106
20.8	1.14158e-113	3.25006e-107	3.25006e-107
20.9	3.37980e-114	3.25006e-107	3.25006e-107
21.0	1.00064e-114	3.28657e-108	3.28657e-108
21.1	2.96253e-115	1.04513e-108	1.04513e-108
21.2	8.77097e-116	1.04513e-108	1.04513e-108
21.3	2.59677e-116	1.05687e-109	1.05687e-109
21.4	7.68810e-117	1.05687e-109	1.05687e-109
21.5	2.27617e-117	1.06875e-110	1.06875e-110
21.6	6.73892e-118	3.39860e-111	3.39860e-111
21.7	1.99515e-118	3.39860e-111	3.39860e-111
21.8	5.90693e-119	3.43679e-112	3.43679e-112
21.9	1.74883e-119	3.43679e-112	3.43679e-112
22.0	5.17766e-120	3.47541e-113	3.47541e-113
22.1	1.53292e-120	1.10518e-113	1.10518e-113
22.2	4.53842e-121	1.10518e-113	1.10518e-113
22.3	1.34366e-121	1.11759e-114	1.11759e-114
22.4	3.97810e-122	1.11759e-114	1.11759e-114

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x	$A(x)$	P_{v1}	P_{v2}
22.5	1.17777e-122	1.13015e-115	1.13015e-115
22.6	3.48696e-123	3.59388e-116	3.59388e-116
22.7	1.03236e-123	3.59388e-116	3.59388e-116
22.8	3.05646e-124	3.63426e-117	3.63426e-117
22.9	9.04908e-125	3.63426e-117	3.63426e-117
23.0	2.67911e-125	3.67509e-118	3.67509e-118
23.1	7.93187e-126	1.16868e-118	1.16868e-118
23.2	2.34834e-126	1.16868e-118	1.16868e-118
23.3	6.95260e-127	1.18181e-119	1.18181e-119
23.4	2.05841e-127	1.18181e-119	1.18181e-119
23.5	6.09423e-128	1.19509e-120	1.19509e-120
23.6	1.80428e-128	3.80037e-121	3.80037e-121
23.7	5.34183e-129	3.80037e-121	3.80037e-121
23.8	1.58152e-129	3.84307e-122	3.84307e-122
23.9	4.68232e-130	3.84307e-122	3.84307e-122
24.0	1.38627e-130	3.88625e-123	3.88625e-123
24.1	4.10424e-131	1.23582e-123	1.23582e-123
24.2	1.21512e-131	1.23582e-123	1.23582e-123
24.3	3.59753e-132	1.24971e-124	1.24971e-124
24.4	1.06510e-132	1.24971e-124	1.24971e-124
24.5	3.15337e-133	1.26375e-125	1.26375e-125
24.6	9.33600e-134	4.01872e-126	4.01872e-126
24.7	2.76406e-134	4.01872e-126	4.01872e-126
24.8	8.18337e-135	4.06387e-127	4.06387e-127
24.9	2.42280e-135	4.06387e-127	4.06387e-127
25.0	7.17305e-136	4.10954e-128	4.10954e-128
25.1	2.12368e-136	1.30683e-128	1.30683e-128
25.2	6.28746e-137	1.30683e-128	1.30683e-128
25.3	1.86149e-137	1.32151e-129	1.32151e-129
25.4	5.51120e-138	1.32151e-129	1.32151e-129
25.5	1.63167e-138	1.33636e-130	1.33636e-130
25.6	4.83079e-139	4.24962e-131	4.24962e-131
25.7	1.43022e-139	4.24962e-131	4.24962e-131
25.8	4.23437e-140	4.29737e-132	4.29737e-132
25.9	1.25365e-140	4.29737e-132	4.29737e-132
26.0	3.71160e-141	4.34565e-133	4.34565e-133
26.1	1.09887e-141	1.38192e-133	1.38192e-133
26.2	3.25336e-142	1.38192e-133	1.38192e-133
26.3	9.63203e-143	1.39744e-134	1.39744e-134
26.4	2.85170e-143	1.39744e-134	1.39744e-134

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x	$A(x)$	P_{v1}	P_{v2}
26.5	8.44285e-144	1.41314e-135	1.41314e-135
26.6	2.49962e-144	4.49379e-136	4.49379e-136
26.7	7.40049e-145	4.49379e-136	4.49379e-136
26.8	2.19102e-145	4.54428e-137	4.54428e-137
26.9	6.48682e-146	4.54428e-137	4.54428e-137
27.0	1.92051e-146	4.59534e-138	4.59534e-138
27.1	5.68595e-147	1.46131e-138	1.46131e-138
27.2	1.68341e-147	1.46131e-138	1.46131e-138
27.3	4.98396e-148	1.47773e-139	1.47773e-139
27.4	1.47557e-148	1.47773e-139	1.47773e-139
27.5	4.36864e-149	1.49434e-140	1.49434e-140
27.6	1.29340e-149	4.75198e-141	4.75198e-141
27.7	3.82928e-150	4.75198e-141	4.75198e-141
27.8	1.13371e-150	4.80538e-142	4.80538e-142
27.9	3.35651e-151	4.80538e-142	4.80538e-142
28.0	9.93743e-152	4.85937e-143	4.85937e-143
28.1	2.94212e-152	1.54528e-143	1.54528e-143
28.2	8.71055e-153	1.54528e-143	1.54528e-143
28.3	2.57888e-153	1.56264e-144	1.56264e-144
28.4	7.63514e-154	1.56264e-144	1.56264e-144
28.5	2.26049e-154	1.58020e-145	1.58020e-145
28.6	6.69250e-155	5.02501e-146	5.02501e-146
28.7	1.98141e-155	5.02501e-146	5.02501e-146
28.8	5.86624e-156	5.08147e-147	5.08147e-147
28.9	1.73678e-156	5.08147e-147	5.08147e-147
29.0	5.14199e-157	5.13857e-148	5.13857e-148
29.1	1.52236e-157	1.63406e-148	1.63406e-148
29.2	4.50715e-158	1.63406e-148	1.63406e-148
29.3	1.33441e-158	1.65242e-149	1.65242e-149
29.4	3.95070e-159	1.65242e-149	1.65242e-149
29.5	1.16966e-159	1.67099e-150	1.67099e-150
29.6	3.46294e-160	5.31373e-151	5.31373e-151
29.7	1.02525e-160	5.31373e-151	5.31373e-151
29.8	3.03540e-161	5.37344e-152	5.37344e-152
29.9	8.98674e-162	5.37344e-152	5.37344e-152
30.0	2.66065e-162	5.43381e-153	5.43381e-153
30.1	7.87723e-163	1.72795e-153	1.72795e-153
30.2	2.33216e-163	1.72795e-153	1.72795e-153
30.3	6.90470e-164	1.74736e-154	1.74736e-154
30.4	2.04423e-164	1.74736e-154	1.74736e-154

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x	$A(x)$	P_{v1}	P_{v2}
30.5	6.05224e-165	1.76700e-155	1.76700e-155
30.6	1.79185e-165	5.61904e-156	5.61904e-156
30.7	5.30503e-166	5.61904e-156	5.61904e-156
30.8	1.57063e-166	5.68217e-157	5.68217e-157
30.9	4.65006e-167	5.68217e-157	5.68217e-157
31.0	1.37672e-167	5.74602e-158	5.74602e-158
31.1	4.07596e-168	1.82723e-158	1.82723e-158
31.2	1.20675e-168	1.82723e-158	1.82723e-158
31.3	3.57274e-169	1.84776e-159	1.84776e-159
31.4	1.05776e-169	1.84776e-159	1.84776e-159
31.5	3.13165e-170	1.86852e-160	1.86852e-160
31.6	9.27169e-171	5.94189e-161	5.94189e-161
31.7	2.74501e-171	5.94189e-161	5.94189e-161
31.8	8.12700e-172	6.00865e-162	6.00865e-162
31.9	2.40611e-172	6.00865e-162	6.00865e-162
32.0	7.12363e-173	6.07616e-163	6.07616e-163
32.1	2.10905e-173	1.93222e-163	1.93222e-163
32.2	6.24414e-174	6.14443e-164	6.14443e-164
32.3	1.84867e-174	6.14443e-164	6.14443e-164
32.4	5.47324e-175	6.21347e-165	6.21347e-165
32.5	1.62043e-175	1.97588e-165	1.97588e-165
32.6	4.79751e-176	6.28329e-166	6.28329e-166
32.7	1.42037e-176	1.99808e-166	1.99808e-166
32.8	4.20520e-177	1.99808e-166	1.99808e-166
32.9	1.24501e-177	2.02053e-167	2.02053e-167
33.0	3.68603e-178	6.42528e-168	6.42528e-168
33.1	1.09130e-178	2.04323e-168	2.04323e-168
33.2	3.23095e-179	6.49747e-169	6.49747e-169
33.3	9.56567e-180	6.49747e-169	6.49747e-169
33.4	2.83205e-180	6.57047e-170	6.57047e-170
33.5	8.38468e-181	2.08941e-170	2.08941e-170
33.6	2.48240e-181	6.64430e-171	6.64430e-171
33.7	7.34951e-182	2.11288e-171	2.11288e-171
33.8	2.17592e-182	2.11288e-171	2.11288e-171
33.9	6.44213e-183	2.13662e-172	2.13662e-172
34.0	1.90728e-183	6.79445e-173	6.79445e-173
34.1	5.64678e-184	2.16063e-173	2.16063e-173
34.2	1.67181e-184	6.87079e-174	6.87079e-174
34.3	4.94962e-185	6.87079e-174	6.87079e-174
34.4	1.46541e-185	6.94799e-175	6.94799e-175

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x	$A(x)$	P_{v1}	P_{v2}
34.5	4.33854e-186	2.20946e-175	2.20946e-175
34.6	1.28449e-186	7.02606e-176	7.02606e-176
34.7	3.80290e-187	2.23428e-176	2.23428e-176
34.8	1.12590e-187	2.23428e-176	2.23428e-176
34.9	3.33339e-188	2.25939e-177	2.25939e-177
35.0	9.86897e-189	7.18483e-178	7.18483e-178
35.1	2.92185e-189	2.28477e-178	2.28477e-178
35.2	8.65054e-190	7.26556e-179	7.26556e-179
35.3	2.56111e-190	7.26556e-179	7.26556e-179
35.4	7.58254e-191	7.34719e-180	7.34719e-180
35.5	2.24492e-191	2.33640e-180	2.33640e-180
35.6	6.64639e-192	7.42975e-181	7.42975e-181
35.7	1.96776e-192	2.36265e-181	2.36265e-181
35.8	5.82582e-193	2.36265e-181	2.36265e-181
35.9	1.72482e-193	2.38920e-182	2.38920e-182
36.0	5.10656e-194	7.59764e-183	7.59764e-183
36.1	1.51187e-194	2.41605e-183	2.41605e-183
36.2	4.47610e-195	7.68301e-184	7.68301e-184
36.3	1.32521e-195	7.68301e-184	7.68301e-184
36.4	3.92348e-196	7.76934e-185	7.76934e-185
36.5	1.16160e-196	2.47064e-185	2.47064e-185
36.6	3.43908e-197	7.85663e-186	7.85663e-186
36.7	1.01819e-197	2.49840e-186	2.49840e-186
36.8	3.01449e-198	2.49840e-186	2.49840e-186
36.9	8.92483e-199	2.52648e-187	2.52648e-187
37.0	2.64232e-199	8.03418e-188	8.03418e-188
37.1	7.82296e-200	2.55486e-188	2.55486e-188
37.2	2.31610e-200	8.12445e-189	8.12445e-189
37.3	6.85713e-201	8.12445e-189	8.12445e-189
37.4	2.03015e-201	8.21573e-190	8.21573e-190
37.5	6.01055e-202	2.61260e-190	2.61260e-190
37.6	1.77951e-202	8.30804e-191	8.30804e-191
37.7	5.26848e-203	2.64195e-191	2.64195e-191
37.8	1.55981e-203	2.64195e-191	2.64195e-191
37.9	4.61803e-204	2.67164e-192	2.67164e-192
38.0	1.36723e-204	8.49579e-193	8.49579e-193
38.1	4.04788e-205	2.70166e-193	2.70166e-193
38.2	1.19843e-205	8.59125e-194	8.59125e-194
38.3	3.54813e-206	8.59125e-194	8.59125e-194
38.4	1.05047e-206	8.59125e-194	8.59125e-194

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x	$A(x)$	P_{v1}	P_{v2}
38.5	3.11007e-207	2.76271e-195	2.76271e-195
38.6	9.20781e-208	8.78539e-196	8.78539e-196
38.7	2.72610e-208	2.79375e-196	2.79375e-196
38.8	8.07101e-209	2.79375e-196	2.79375e-196
38.9	2.38954e-209	2.79375e-196	2.79375e-196
39.0	7.07456e-210	8.98392e-198	8.98392e-198
39.1	2.09452e-210	2.85688e-198	2.85688e-198
39.2	6.20113e-211	9.08487e-199	9.08487e-199
39.3	1.83593e-211	9.08487e-199	9.08487e-199
39.4	5.43553e-212	9.08487e-199	9.08487e-199
39.5	1.60927e-212	2.92144e-200	2.92144e-200
39.6	4.76446e-213	9.29017e-201	9.29017e-201
39.7	1.41058e-213	2.95427e-201	2.95427e-201
39.8	4.17623e-214	2.95427e-201	2.95427e-201
39.9	1.23643e-214	2.95427e-201	2.95427e-201
40.0	3.66063e-215	9.50011e-203	9.50011e-203
40.1	1.08378e-215	3.02103e-203	3.02103e-203
40.2	3.20869e-216	9.60685e-204	9.60685e-204
40.3	9.49977e-217	9.60685e-204	9.60685e-204
40.4	2.81254e-217	9.60685e-204	9.60685e-204
40.5	8.32692e-218	3.08930e-205	3.08930e-205
40.6	2.46530e-218	9.82394e-206	9.82394e-206
40.7	7.29887e-219	3.12401e-206	3.12401e-206
40.8	2.16093e-219	3.12401e-206	3.12401e-206
40.9	6.39775e-220	3.12401e-206	3.12401e-206
41.0	1.89414e-220	1.00459e-207	1.00459e-207
41.1	5.60788e-221	3.19460e-208	3.19460e-208
41.2	1.66029e-221	1.01588e-208	1.01588e-208
41.3	4.91553e-222	1.01588e-208	1.01588e-208
41.4	1.45531e-222	1.01588e-208	1.01588e-208
41.5	4.30865e-223	3.26680e-210	3.26680e-210
41.6	1.27564e-223	1.03884e-210	1.03884e-210
41.7	3.77670e-224	3.30350e-211	3.30350e-211
41.8	1.11815e-224	3.30350e-211	3.30350e-211
41.9	3.31043e-225	3.30350e-211	3.30350e-211
42.0	9.80098e-226	1.06231e-212	1.06231e-212
42.1	2.90172e-226	3.37815e-213	3.37815e-213
42.2	8.59095e-227	1.07425e-213	1.07425e-213
42.3	2.54347e-227	1.07425e-213	1.07425e-213
42.4	7.53030e-228	1.07425e-213	1.07425e-213

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x	$A(x)$	P_{v1}	P_{v2}
42.5	2.22945e-228	3.45449e-215	3.45449e-215
42.6	6.60061e-229	1.09853e-215	1.09853e-215
42.7	1.95420e-229	3.49331e-216	3.49331e-216
42.8	5.78569e-230	3.49331e-216	3.49331e-216
42.9	1.71293e-230	3.49331e-216	3.49331e-216
43.0	5.07138e-231	1.12335e-217	1.12335e-217
43.1	1.50145e-231	3.57225e-218	3.57225e-218
43.2	4.44527e-232	1.13597e-218	1.13597e-218
43.3	1.31608e-232	1.13597e-218	1.13597e-218
43.4	3.89645e-233	1.13597e-218	1.13597e-218
43.5	1.15360e-233	3.65298e-220	3.65298e-220
43.6	3.41539e-234	1.16164e-220	1.16164e-220
43.7	1.01117e-234	3.69402e-221	3.69402e-221
43.8	2.99373e-235	3.69402e-221	3.69402e-221
43.9	8.86335e-236	3.69402e-221	3.69402e-221
44.0	2.62412e-236	1.18789e-222	1.18789e-222
44.1	7.76907e-237	3.77750e-223	3.77750e-223
44.2	2.30014e-237	1.20124e-223	1.20124e-223
44.3	6.80989e-238	1.20124e-223	1.20124e-223
44.4	2.01617e-238	1.20124e-223	1.20124e-223
44.5	5.96914e-239	3.86286e-225	3.86286e-225
44.6	1.76725e-239	1.22839e-225	1.22839e-225
44.7	5.23219e-240	3.90626e-226	3.90626e-226
44.8	1.54906e-240	3.90626e-226	3.90626e-226
44.9	4.58622e-241	3.90626e-226	3.90626e-226
45.0	1.35781e-241	1.25615e-227	1.25615e-227
45.1	4.02000e-242	3.99454e-228	3.99454e-228
45.2	1.19018e-242	1.27026e-228	1.27026e-228
45.3	3.52369e-243	1.27026e-228	1.27026e-228
45.4	1.04324e-243	1.27026e-228	1.27026e-228
45.5	3.08865e-244	4.08481e-230	4.08481e-230
45.6	9.14438e-245	1.29897e-230	1.29897e-230
45.7	2.70732e-245	4.13070e-231	4.13070e-231
45.8	8.01541e-246	4.13070e-231	4.13070e-231
45.9	2.37307e-246	4.13070e-231	4.13070e-231
46.0	7.02582e-247	1.32832e-232	1.32832e-232
46.1	2.08009e-247	4.22405e-233	4.22405e-233
46.2	6.15841e-248	1.34324e-233	1.34324e-233
46.3	1.82328e-248	1.34324e-233	1.34324e-233
46.4	5.39808e-249	1.34324e-233	1.34324e-233

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x	$A(x)$	P_{v1}	P_{v2}
46.5	1.59818e-249	4.31950e-235	4.31950e-235
46.6	4.73163e-250	1.37360e-235	1.37360e-235
46.7	1.40087e-250	4.36804e-236	4.36804e-236
46.8	4.14746e-251	4.36804e-236	4.36804e-236
46.9	1.22791e-251	4.36804e-236	4.36804e-236
47.0	3.63541e-252	1.40464e-237	1.40464e-237
47.1	1.07632e-252	4.46675e-238	4.46675e-238
47.2	3.18658e-253	1.42042e-238	1.42042e-238
47.3	9.43433e-254	1.42042e-238	1.42042e-238
47.4	2.79316e-254	1.42042e-238	1.42042e-238
47.5	8.26956e-255	4.56769e-240	4.56769e-240
47.6	2.44832e-255	1.45252e-240	1.45252e-240
47.7	7.24859e-256	4.61901e-241	4.61901e-241
47.8	2.14605e-256	4.61901e-241	4.61901e-241
47.9	6.35367e-257	4.61901e-241	4.61901e-241
48.0	1.88109e-257	1.48535e-242	1.48535e-242
48.1	5.56924e-258	4.72339e-243	4.72339e-243
48.2	1.64885e-258	1.50203e-243	1.50203e-243
48.3	4.88166e-259	1.50203e-243	1.50203e-243
48.4	1.44528e-259	1.50203e-243	1.50203e-243
48.5	4.27897e-260	4.83013e-245	4.83013e-245
48.6	1.26685e-260	1.53598e-245	1.53598e-245
48.7	3.75068e-261	4.88440e-246	4.88440e-246
48.8	1.11044e-261	4.88440e-246	4.88440e-246
48.9	3.28762e-262	4.88440e-246	4.88440e-246
49.0	9.73346e-263	1.57069e-247	1.57069e-247
49.1	2.88173e-263	4.99478e-248	4.99478e-248
49.2	8.53176e-264	1.58834e-248	1.58834e-248
49.3	2.52595e-264	1.58834e-248	1.58834e-248
49.4	7.47843e-265	1.58834e-248	1.58834e-248
49.5	2.21409e-265	5.10765e-250	5.10765e-250
49.6	6.55513e-266	1.62423e-250	1.62423e-250
49.7	1.94074e-266	5.16504e-251	5.16504e-251
49.8	5.74583e-267	5.16504e-251	5.16504e-251
49.9	1.70113e-267	5.16504e-251	5.16504e-251
50.0	5.03645e-268	1.66093e-252	1.66093e-252
50.1	1.49111e-268	5.28176e-253	5.28176e-253
50.2	4.41464e-269	1.67960e-253	1.67960e-253
50.3	1.30702e-269	1.67960e-253	1.67960e-253
50.4	3.86961e-270	1.67960e-253	1.67960e-253

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x	$A(x)$	P_{v1}	P_{v2}
50.5	1.14565e-270	5.40112e-255	5.40112e-255
50.6	3.39186e-271	1.71755e-255	1.71755e-255
50.7	1.00421e-271	5.46180e-256	5.46180e-256
50.8	2.97310e-272	5.46180e-256	5.46180e-256
50.9	8.80228e-273	5.46180e-256	5.46180e-256
51.0	2.60604e-273	1.75636e-257	1.75636e-257
51.1	7.71555e-274	5.58523e-258	5.58523e-258
51.2	2.28430e-274	1.77610e-258	1.77610e-258
51.3	6.76298e-275	1.77610e-258	1.77610e-258
51.4	2.00228e-275	1.77610e-258	1.77610e-258
51.5	5.92802e-276	5.71144e-260	5.71144e-260
51.6	1.75507e-276	1.81624e-260	1.81624e-260
51.7	5.19614e-277	5.77562e-261	5.77562e-261
51.8	1.53839e-277	5.77562e-261	5.77562e-261
51.9	4.55462e-278	5.77562e-261	5.77562e-261
52.0	1.34846e-278	1.85728e-262	1.85728e-262
52.1	3.99230e-279	5.90613e-263	5.90613e-263
52.2	1.18198e-279	1.87815e-263	1.87815e-263
52.3	3.49941e-280	1.87815e-263	1.87815e-263
52.4	1.03605e-280	1.87815e-263	1.87815e-263
52.5	3.06737e-281	6.03960e-265	6.03960e-265
52.6	9.08138e-282	1.92059e-265	1.92059e-265
52.7	2.68867e-282	6.10746e-266	6.10746e-266
52.8	7.96019e-283	6.10746e-266	6.10746e-266
52.9	2.35673e-283	6.10746e-266	6.10746e-266
53.0	6.97742e-284	1.96399e-267	1.96399e-267
53.1	2.06576e-284	6.24548e-268	6.24548e-268
53.2	6.11598e-285	1.98606e-268	1.98606e-268
53.3	1.81072e-285	1.98606e-268	1.98606e-268
53.4	5.36090e-286	1.98606e-268	1.98606e-268
53.5	1.58717e-286	6.38661e-270	6.38661e-270
53.6	4.69904e-287	2.03094e-270	2.03094e-270
53.7	1.39122e-287	6.45837e-271	6.45837e-271
53.8	4.11889e-288	6.45837e-271	6.45837e-271
53.9	1.21946e-288	6.45837e-271	6.45837e-271
54.0	3.61037e-289	2.07683e-272	2.07683e-272
54.1	1.06890e-289	6.60432e-273	6.60432e-273
54.2	3.16463e-290	2.10017e-273	2.10017e-273
54.3	9.36933e-291	2.10017e-273	2.10017e-273
54.4	2.77392e-291	2.10017e-273	2.10017e-273

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x	$A(x)$	P_{v1}	P_{v2}
54.5	8.21259e-292	6.75356e-275	6.75356e-275
54.6	2.43145e-292	2.14763e-275	2.14763e-275
54.7	7.19865e-293	6.82945e-276	6.82945e-276
54.8	2.13126e-293	6.82945e-276	6.82945e-276
54.9	6.30990e-294	6.82945e-276	6.82945e-276
55.0	1.86814e-294	2.19616e-277	2.19616e-277
55.1	5.53088e-295	6.98378e-278	6.98378e-278
55.2	1.63749e-295	2.22084e-278	2.22084e-278
55.3	4.84803e-296	2.22084e-278	2.22084e-278
55.4	1.43533e-296	2.22084e-278	2.22084e-278
55.5	4.24949e-297	7.14160e-280	7.14160e-280
55.6	1.25812e-297	2.27102e-280	2.27102e-280
55.7	3.72484e-298	7.22184e-281	7.22184e-281
55.8	1.10279e-298	7.22184e-281	7.22184e-281
55.9	3.26497e-299	7.22184e-281	7.22184e-281
56.0	9.66641e-300	2.32234e-282	2.32234e-282
56.1	2.86188e-300	7.38504e-283	7.38504e-283
56.2	8.47299e-301	2.34844e-283	2.34844e-283
56.3	2.50855e-301	2.34844e-283	2.34844e-283
56.4	7.42691e-302	2.34844e-283	2.34844e-283
56.5	2.19884e-302	7.55193e-285	7.55193e-285
56.6	6.50997e-303	2.40151e-285	2.40151e-285
56.7	1.92737e-303	7.63678e-286	7.63678e-286
56.8	5.70625e-304	7.63678e-286	7.63678e-286
56.9	1.68941e-304	7.63678e-286	7.63678e-286
57.0	5.00175e-305	2.45578e-287	2.45578e-287
57.1	1.48084e-305	7.80935e-288	7.80935e-288
57.2	4.38423e-306	2.48337e-288	2.48337e-288
57.3	1.29801e-306	2.48337e-288	2.48337e-288
57.4	3.84295e-307	2.48337e-288	2.48337e-288
57.5	1.13776e-307	7.98583e-290	7.98583e-290
57.6	3.36850e-308	2.53949e-290	2.53949e-290
57.7	9.97291e-309	8.07556e-291	8.07556e-291
57.8	2.95262e-309	8.07556e-291	8.07556e-291
57.9	8.74164e-310	8.07556e-291	8.07556e-291
58.0	2.58809e-310	2.59688e-292	2.59688e-292
58.1	7.66239e-311	8.25805e-293	8.25805e-293
58.2	2.26856e-311	2.62605e-293	2.62605e-293
58.3	6.71639e-312	2.62605e-293	2.62605e-293
58.4	1.98848e-312	2.62605e-293	2.62605e-293

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x	$A(x)$	P_{v1}	P_{v2}
58.5	5.88718e-313	8.44467e-295	8.44467e-295
58.6	1.74298e-313	2.68540e-295	2.68540e-295
58.7	5.16034e-314	8.53955e-296	8.53955e-296
58.8	1.52779e-314	8.53955e-296	8.53955e-296
58.9	4.52324e-315	8.53955e-296	8.53955e-296
59.0	1.33917e-315	2.74608e-297	2.74608e-297
59.1	3.96480e-316	8.73253e-298	8.73253e-298
59.2	1.17384e-316	2.77694e-298	2.77694e-298
59.3	3.47530e-317	2.77694e-298	2.77694e-298
59.4	1.02891e-317	2.77694e-298	2.77694e-298
59.5	3.04622e-318	8.92986e-300	8.92986e-300
59.6	9.01867e-319	2.83969e-300	2.83969e-300
59.7	2.67008e-319	9.00000e-301	9.00000e-301
59.8	7.90801e-320	9.00000e-301	9.00000e-301
59.9	2.33940e-320	9.00000e-301	9.00000e-301
60.0	6.91692e-321	2.00000e-302	2.00000e-302
60.1	2.04543e-321	9.00000e-303	9.00000e-303
60.2	6.02760e-322	2.00000e-303	2.00000e-303
60.3	1.82804e-322	2.00000e-303	2.00000e-303
60.4	5.92879e-323	2.00000e-303	2.00000e-303
60.5	0.00000e+00	9.00000e-305	9.00000e-305
60.6	0.00000e+00	3.00000e-305	3.00000e-305
60.7	0.00000e+00	9.00000e-306	9.00000e-306
60.8	0.00000e+00	9.00000e-306	9.00000e-306
60.9	0.00000e+00	9.00000e-306	9.00000e-306
61.0	0.00000e+00	3.00000e-307	3.00000e-307
61.1	0.00000e+00	9.00000e-308	9.00000e-308
61.2	0.00000e+00	4.00000e-308	4.00000e-308
61.3	0.00000e+00	4.00000e-308	4.00000e-308
61.4	0.00000e+00	4.00000e-308	4.00000e-308
61.5	0.00000e+00	0.00000e+00	0.00000e+00
61.6	0.00000e+00	0.00000e+00	0.00000e+00
61.7	0.00000e+00	0.00000e+00	0.00000e+00
61.8	0.00000e+00	0.00000e+00	0.00000e+00
61.9	0.00000e+00	0.00000e+00	0.00000e+00
62.0	0.00000e+00	0.00000e+00	0.00000e+00
62.1	0.00000e+00	0.00000e+00	0.00000e+00
62.2	0.00000e+00	0.00000e+00	0.00000e+00
62.3	0.00000e+00	0.00000e+00	0.00000e+00
62.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
62.5	0.00000e+00	0.00000e+00	0.00000e+00
62.6	0.00000e+00	0.00000e+00	0.00000e+00
62.7	0.00000e+00	0.00000e+00	0.00000e+00
62.8	0.00000e+00	0.00000e+00	0.00000e+00
62.9	0.00000e+00	0.00000e+00	0.00000e+00
63.0	0.00000e+00	0.00000e+00	0.00000e+00
63.1	0.00000e+00	0.00000e+00	0.00000e+00
63.2	0.00000e+00	0.00000e+00	0.00000e+00
63.3	0.00000e+00	0.00000e+00	0.00000e+00
63.4	0.00000e+00	0.00000e+00	0.00000e+00
63.5	0.00000e+00	0.00000e+00	0.00000e+00
63.6	0.00000e+00	0.00000e+00	0.00000e+00
63.7	0.00000e+00	0.00000e+00	0.00000e+00
63.8	0.00000e+00	0.00000e+00	0.00000e+00
63.9	0.00000e+00	0.00000e+00	0.00000e+00
64.0	0.00000e+00	0.00000e+00	0.00000e+00
64.1	0.00000e+00	0.00000e+00	0.00000e+00
64.2	0.00000e+00	0.00000e+00	0.00000e+00
64.3	0.00000e+00	0.00000e+00	0.00000e+00
64.4	0.00000e+00	0.00000e+00	0.00000e+00
64.5	0.00000e+00	0.00000e+00	0.00000e+00
64.6	0.00000e+00	0.00000e+00	0.00000e+00
64.7	0.00000e+00	0.00000e+00	0.00000e+00
64.8	0.00000e+00	0.00000e+00	0.00000e+00
64.9	0.00000e+00	0.00000e+00	0.00000e+00
65.0	0.00000e+00	0.00000e+00	0.00000e+00
65.1	0.00000e+00	0.00000e+00	0.00000e+00
65.2	0.00000e+00	0.00000e+00	0.00000e+00
65.3	0.00000e+00	0.00000e+00	0.00000e+00
65.4	0.00000e+00	0.00000e+00	0.00000e+00
65.5	0.00000e+00	0.00000e+00	0.00000e+00
65.6	0.00000e+00	0.00000e+00	0.00000e+00
65.7	0.00000e+00	0.00000e+00	0.00000e+00
65.8	0.00000e+00	0.00000e+00	0.00000e+00
65.9	0.00000e+00	0.00000e+00	0.00000e+00
66.0	0.00000e+00	0.00000e+00	0.00000e+00
66.1	0.00000e+00	0.00000e+00	0.00000e+00
66.2	0.00000e+00	0.00000e+00	0.00000e+00
66.3	0.00000e+00	0.00000e+00	0.00000e+00
66.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
66.5	0.00000e+00	0.00000e+00	0.00000e+00
66.6	0.00000e+00	0.00000e+00	0.00000e+00
66.7	0.00000e+00	0.00000e+00	0.00000e+00
66.8	0.00000e+00	0.00000e+00	0.00000e+00
66.9	0.00000e+00	0.00000e+00	0.00000e+00
67.0	0.00000e+00	0.00000e+00	0.00000e+00
67.1	0.00000e+00	0.00000e+00	0.00000e+00
67.2	0.00000e+00	0.00000e+00	0.00000e+00
67.3	0.00000e+00	0.00000e+00	0.00000e+00
67.4	0.00000e+00	0.00000e+00	0.00000e+00
67.5	0.00000e+00	0.00000e+00	0.00000e+00
67.6	0.00000e+00	0.00000e+00	0.00000e+00
67.7	0.00000e+00	0.00000e+00	0.00000e+00
67.8	0.00000e+00	0.00000e+00	0.00000e+00
67.9	0.00000e+00	0.00000e+00	0.00000e+00
68.0	0.00000e+00	0.00000e+00	0.00000e+00
68.1	0.00000e+00	0.00000e+00	0.00000e+00
68.2	0.00000e+00	0.00000e+00	0.00000e+00
68.3	0.00000e+00	0.00000e+00	0.00000e+00
68.4	0.00000e+00	0.00000e+00	0.00000e+00
68.5	0.00000e+00	0.00000e+00	0.00000e+00
68.6	0.00000e+00	0.00000e+00	0.00000e+00
68.7	0.00000e+00	0.00000e+00	0.00000e+00
68.8	0.00000e+00	0.00000e+00	0.00000e+00
68.9	0.00000e+00	0.00000e+00	0.00000e+00
69.0	0.00000e+00	0.00000e+00	0.00000e+00
69.1	0.00000e+00	0.00000e+00	0.00000e+00
69.2	0.00000e+00	0.00000e+00	0.00000e+00
69.3	0.00000e+00	0.00000e+00	0.00000e+00
69.4	0.00000e+00	0.00000e+00	0.00000e+00
69.5	0.00000e+00	0.00000e+00	0.00000e+00
69.6	0.00000e+00	0.00000e+00	0.00000e+00
69.7	0.00000e+00	0.00000e+00	0.00000e+00
69.8	0.00000e+00	0.00000e+00	0.00000e+00
69.9	0.00000e+00	0.00000e+00	0.00000e+00
70.0	0.00000e+00	0.00000e+00	0.00000e+00
70.1	0.00000e+00	0.00000e+00	0.00000e+00
70.2	0.00000e+00	0.00000e+00	0.00000e+00
70.3	0.00000e+00	0.00000e+00	0.00000e+00
70.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
70.5	0.00000e+00	0.00000e+00	0.00000e+00
70.6	0.00000e+00	0.00000e+00	0.00000e+00
70.7	0.00000e+00	0.00000e+00	0.00000e+00
70.8	0.00000e+00	0.00000e+00	0.00000e+00
70.9	0.00000e+00	0.00000e+00	0.00000e+00
71.0	0.00000e+00	0.00000e+00	0.00000e+00
71.1	0.00000e+00	0.00000e+00	0.00000e+00
71.2	0.00000e+00	0.00000e+00	0.00000e+00
71.3	0.00000e+00	0.00000e+00	0.00000e+00
71.4	0.00000e+00	0.00000e+00	0.00000e+00
71.5	0.00000e+00	0.00000e+00	0.00000e+00
71.6	0.00000e+00	0.00000e+00	0.00000e+00
71.7	0.00000e+00	0.00000e+00	0.00000e+00
71.8	0.00000e+00	0.00000e+00	0.00000e+00
71.9	0.00000e+00	0.00000e+00	0.00000e+00
72.0	0.00000e+00	0.00000e+00	0.00000e+00
72.1	0.00000e+00	0.00000e+00	0.00000e+00
72.2	0.00000e+00	0.00000e+00	0.00000e+00
72.3	0.00000e+00	0.00000e+00	0.00000e+00
72.4	0.00000e+00	0.00000e+00	0.00000e+00
72.5	0.00000e+00	0.00000e+00	0.00000e+00
72.6	0.00000e+00	0.00000e+00	0.00000e+00
72.7	0.00000e+00	0.00000e+00	0.00000e+00
72.8	0.00000e+00	0.00000e+00	0.00000e+00
72.9	0.00000e+00	0.00000e+00	0.00000e+00
73.0	0.00000e+00	0.00000e+00	0.00000e+00
73.1	0.00000e+00	0.00000e+00	0.00000e+00
73.2	0.00000e+00	0.00000e+00	0.00000e+00
73.3	0.00000e+00	0.00000e+00	0.00000e+00
73.4	0.00000e+00	0.00000e+00	0.00000e+00
73.5	0.00000e+00	0.00000e+00	0.00000e+00
73.6	0.00000e+00	0.00000e+00	0.00000e+00
73.7	0.00000e+00	0.00000e+00	0.00000e+00
73.8	0.00000e+00	0.00000e+00	0.00000e+00
73.9	0.00000e+00	0.00000e+00	0.00000e+00
74.0	0.00000e+00	0.00000e+00	0.00000e+00
74.1	0.00000e+00	0.00000e+00	0.00000e+00
74.2	0.00000e+00	0.00000e+00	0.00000e+00
74.3	0.00000e+00	0.00000e+00	0.00000e+00
74.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
74.5	0.00000e+00	0.00000e+00	0.00000e+00
74.6	0.00000e+00	0.00000e+00	0.00000e+00
74.7	0.00000e+00	0.00000e+00	0.00000e+00
74.8	0.00000e+00	0.00000e+00	0.00000e+00
74.9	0.00000e+00	0.00000e+00	0.00000e+00
75.0	0.00000e+00	0.00000e+00	0.00000e+00
75.1	0.00000e+00	0.00000e+00	0.00000e+00
75.2	0.00000e+00	0.00000e+00	0.00000e+00
75.3	0.00000e+00	0.00000e+00	0.00000e+00
75.4	0.00000e+00	0.00000e+00	0.00000e+00
75.5	0.00000e+00	0.00000e+00	0.00000e+00
75.6	0.00000e+00	0.00000e+00	0.00000e+00
75.7	0.00000e+00	0.00000e+00	0.00000e+00
75.8	0.00000e+00	0.00000e+00	0.00000e+00
75.9	0.00000e+00	0.00000e+00	0.00000e+00
76.0	0.00000e+00	0.00000e+00	0.00000e+00
76.1	0.00000e+00	0.00000e+00	0.00000e+00
76.2	0.00000e+00	0.00000e+00	0.00000e+00
76.3	0.00000e+00	0.00000e+00	0.00000e+00
76.4	0.00000e+00	0.00000e+00	0.00000e+00
76.5	0.00000e+00	0.00000e+00	0.00000e+00
76.6	0.00000e+00	0.00000e+00	0.00000e+00
76.7	0.00000e+00	0.00000e+00	0.00000e+00
76.8	0.00000e+00	0.00000e+00	0.00000e+00
76.9	0.00000e+00	0.00000e+00	0.00000e+00
77.0	0.00000e+00	0.00000e+00	0.00000e+00
77.1	0.00000e+00	0.00000e+00	0.00000e+00
77.2	0.00000e+00	0.00000e+00	0.00000e+00
77.3	0.00000e+00	0.00000e+00	0.00000e+00
77.4	0.00000e+00	0.00000e+00	0.00000e+00
77.5	0.00000e+00	0.00000e+00	0.00000e+00
77.6	0.00000e+00	0.00000e+00	0.00000e+00
77.7	0.00000e+00	0.00000e+00	0.00000e+00
77.8	0.00000e+00	0.00000e+00	0.00000e+00
77.9	0.00000e+00	0.00000e+00	0.00000e+00
78.0	0.00000e+00	0.00000e+00	0.00000e+00
78.1	0.00000e+00	0.00000e+00	0.00000e+00
78.2	0.00000e+00	0.00000e+00	0.00000e+00
78.3	0.00000e+00	0.00000e+00	0.00000e+00
78.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
78.5	0.00000e+00	0.00000e+00	0.00000e+00
78.6	0.00000e+00	0.00000e+00	0.00000e+00
78.7	0.00000e+00	0.00000e+00	0.00000e+00
78.8	0.00000e+00	0.00000e+00	0.00000e+00
78.9	0.00000e+00	0.00000e+00	0.00000e+00
79.0	0.00000e+00	0.00000e+00	0.00000e+00
79.1	0.00000e+00	0.00000e+00	0.00000e+00
79.2	0.00000e+00	0.00000e+00	0.00000e+00
79.3	0.00000e+00	0.00000e+00	0.00000e+00
79.4	0.00000e+00	0.00000e+00	0.00000e+00
79.5	0.00000e+00	0.00000e+00	0.00000e+00
79.6	0.00000e+00	0.00000e+00	0.00000e+00
79.7	0.00000e+00	0.00000e+00	0.00000e+00
79.8	0.00000e+00	0.00000e+00	0.00000e+00
79.9	0.00000e+00	0.00000e+00	0.00000e+00
80.0	0.00000e+00	0.00000e+00	0.00000e+00
80.1	0.00000e+00	0.00000e+00	0.00000e+00
80.2	0.00000e+00	0.00000e+00	0.00000e+00
80.3	0.00000e+00	0.00000e+00	0.00000e+00
80.4	0.00000e+00	0.00000e+00	0.00000e+00
80.5	0.00000e+00	0.00000e+00	0.00000e+00
80.6	0.00000e+00	0.00000e+00	0.00000e+00
80.7	0.00000e+00	0.00000e+00	0.00000e+00
80.8	0.00000e+00	0.00000e+00	0.00000e+00
80.9	0.00000e+00	0.00000e+00	0.00000e+00
81.0	0.00000e+00	0.00000e+00	0.00000e+00
81.1	0.00000e+00	0.00000e+00	0.00000e+00
81.2	0.00000e+00	0.00000e+00	0.00000e+00
81.3	0.00000e+00	0.00000e+00	0.00000e+00
81.4	0.00000e+00	0.00000e+00	0.00000e+00
81.5	0.00000e+00	0.00000e+00	0.00000e+00
81.6	0.00000e+00	0.00000e+00	0.00000e+00
81.7	0.00000e+00	0.00000e+00	0.00000e+00
81.8	0.00000e+00	0.00000e+00	0.00000e+00
81.9	0.00000e+00	0.00000e+00	0.00000e+00
82.0	0.00000e+00	0.00000e+00	0.00000e+00
82.1	0.00000e+00	0.00000e+00	0.00000e+00
82.2	0.00000e+00	0.00000e+00	0.00000e+00
82.3	0.00000e+00	0.00000e+00	0.00000e+00
82.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
82.5	0.00000e+00	0.00000e+00	0.00000e+00
82.6	0.00000e+00	0.00000e+00	0.00000e+00
82.7	0.00000e+00	0.00000e+00	0.00000e+00
82.8	0.00000e+00	0.00000e+00	0.00000e+00
82.9	0.00000e+00	0.00000e+00	0.00000e+00
83.0	0.00000e+00	0.00000e+00	0.00000e+00
83.1	0.00000e+00	0.00000e+00	0.00000e+00
83.2	0.00000e+00	0.00000e+00	0.00000e+00
83.3	0.00000e+00	0.00000e+00	0.00000e+00
83.4	0.00000e+00	0.00000e+00	0.00000e+00
83.5	0.00000e+00	0.00000e+00	0.00000e+00
83.6	0.00000e+00	0.00000e+00	0.00000e+00
83.7	0.00000e+00	0.00000e+00	0.00000e+00
83.8	0.00000e+00	0.00000e+00	0.00000e+00
83.9	0.00000e+00	0.00000e+00	0.00000e+00
84.0	0.00000e+00	0.00000e+00	0.00000e+00
84.1	0.00000e+00	0.00000e+00	0.00000e+00
84.2	0.00000e+00	0.00000e+00	0.00000e+00
84.3	0.00000e+00	0.00000e+00	0.00000e+00
84.4	0.00000e+00	0.00000e+00	0.00000e+00
84.5	0.00000e+00	0.00000e+00	0.00000e+00
84.6	0.00000e+00	0.00000e+00	0.00000e+00
84.7	0.00000e+00	0.00000e+00	0.00000e+00
84.8	0.00000e+00	0.00000e+00	0.00000e+00
84.9	0.00000e+00	0.00000e+00	0.00000e+00
85.0	0.00000e+00	0.00000e+00	0.00000e+00
85.1	0.00000e+00	0.00000e+00	0.00000e+00
85.2	0.00000e+00	0.00000e+00	0.00000e+00
85.3	0.00000e+00	0.00000e+00	0.00000e+00
85.4	0.00000e+00	0.00000e+00	0.00000e+00
85.5	0.00000e+00	0.00000e+00	0.00000e+00
85.6	0.00000e+00	0.00000e+00	0.00000e+00
85.7	0.00000e+00	0.00000e+00	0.00000e+00
85.8	0.00000e+00	0.00000e+00	0.00000e+00
85.9	0.00000e+00	0.00000e+00	0.00000e+00
86.0	0.00000e+00	0.00000e+00	0.00000e+00
86.1	0.00000e+00	0.00000e+00	0.00000e+00
86.2	0.00000e+00	0.00000e+00	0.00000e+00
86.3	0.00000e+00	0.00000e+00	0.00000e+00
86.4	0.00000e+00	0.00000e+00	0.00000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
86.5	0.00000e+00	0.00000e+00	0.00000e+00
86.6	0.00000e+00	0.00000e+00	0.00000e+00
86.7	0.00000e+00	0.00000e+00	0.00000e+00
86.8	0.00000e+00	0.00000e+00	0.00000e+00
86.9	0.00000e+00	0.00000e+00	0.00000e+00
87.0	0.00000e+00	0.00000e+00	0.00000e+00
87.1	0.00000e+00	0.00000e+00	0.00000e+00
87.2	0.00000e+00	0.00000e+00	0.00000e+00
87.3	0.00000e+00	0.00000e+00	0.00000e+00
87.4	0.00000e+00	0.00000e+00	0.00000e+00
87.5	0.00000e+00	0.00000e+00	0.00000e+00
87.6	0.00000e+00	0.00000e+00	0.00000e+00
87.7	0.00000e+00	0.00000e+00	0.00000e+00
87.8	0.00000e+00	0.00000e+00	0.00000e+00
87.9	0.00000e+00	0.00000e+00	0.00000e+00
88.0	0.00000e+00	0.00000e+00	0.00000e+00
88.1	0.00000e+00	0.00000e+00	0.00000e+00
88.2	0.00000e+00	0.00000e+00	0.00000e+00
88.3	0.00000e+00	0.00000e+00	0.00000e+00
88.4	0.00000e+00	0.00000e+00	0.00000e+00
88.5	0.00000e+00	0.00000e+00	0.00000e+00
88.6	0.00000e+00	0.00000e+00	0.00000e+00
88.7	0.00000e+00	0.00000e+00	0.00000e+00
88.8	0.00000e+00	0.00000e+00	0.00000e+00
88.9	0.00000e+00	0.00000e+00	0.00000e+00
89.0	0.00000e+00	0.00000e+00	0.00000e+00
89.1	0.00000e+00	0.00000e+00	0.00000e+00
89.2	0.00000e+00	0.00000e+00	0.00000e+00
89.3	0.00000e+00	0.00000e+00	0.00000e+00
89.4	0.00000e+00	0.00000e+00	0.00000e+00
89.5	0.00000e+00	0.00000e+00	0.00000e+00
89.6	0.00000e+00	0.00000e+00	0.00000e+00
89.7	0.00000e+00	0.00000e+00	0.00000e+00
89.8	0.00000e+00	0.00000e+00	0.00000e+00
89.9	0.00000e+00	0.00000e+00	0.00000e+00
90.0	0.00000e+00	0.00000e+00	0.00000e+00
90.1	0.00000e+00	0.00000e+00	0.00000e+00
90.2	0.00000e+00	0.00000e+00	0.00000e+00
90.3	0.00000e+00	0.00000e+00	0.00000e+00
90.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
90.5	0.00000e+00	0.00000e+00	0.00000e+00
90.6	0.00000e+00	0.00000e+00	0.00000e+00
90.7	0.00000e+00	0.00000e+00	0.00000e+00
90.8	0.00000e+00	0.00000e+00	0.00000e+00
90.9	0.00000e+00	0.00000e+00	0.00000e+00
91.0	0.00000e+00	0.00000e+00	0.00000e+00
91.1	0.00000e+00	0.00000e+00	0.00000e+00
91.2	0.00000e+00	0.00000e+00	0.00000e+00
91.3	0.00000e+00	0.00000e+00	0.00000e+00
91.4	0.00000e+00	0.00000e+00	0.00000e+00
91.5	0.00000e+00	0.00000e+00	0.00000e+00
91.6	0.00000e+00	0.00000e+00	0.00000e+00
91.7	0.00000e+00	0.00000e+00	0.00000e+00
91.8	0.00000e+00	0.00000e+00	0.00000e+00
91.9	0.00000e+00	0.00000e+00	0.00000e+00
92.0	0.00000e+00	0.00000e+00	0.00000e+00
92.1	0.00000e+00	0.00000e+00	0.00000e+00
92.2	0.00000e+00	0.00000e+00	0.00000e+00
92.3	0.00000e+00	0.00000e+00	0.00000e+00
92.4	0.00000e+00	0.00000e+00	0.00000e+00
92.5	0.00000e+00	0.00000e+00	0.00000e+00
92.6	0.00000e+00	0.00000e+00	0.00000e+00
92.7	0.00000e+00	0.00000e+00	0.00000e+00
92.8	0.00000e+00	0.00000e+00	0.00000e+00
92.9	0.00000e+00	0.00000e+00	0.00000e+00
93.0	0.00000e+00	0.00000e+00	0.00000e+00
93.1	0.00000e+00	0.00000e+00	0.00000e+00
93.2	0.00000e+00	0.00000e+00	0.00000e+00
93.3	0.00000e+00	0.00000e+00	0.00000e+00
93.4	0.00000e+00	0.00000e+00	0.00000e+00
93.5	0.00000e+00	0.00000e+00	0.00000e+00
93.6	0.00000e+00	0.00000e+00	0.00000e+00
93.7	0.00000e+00	0.00000e+00	0.00000e+00
93.8	0.00000e+00	0.00000e+00	0.00000e+00
93.9	0.00000e+00	0.00000e+00	0.00000e+00
94.0	0.00000e+00	0.00000e+00	0.00000e+00
94.1	0.00000e+00	0.00000e+00	0.00000e+00
94.2	0.00000e+00	0.00000e+00	0.00000e+00
94.3	0.00000e+00	0.00000e+00	0.00000e+00
94.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
94.5	0.00000e+00	0.00000e+00	0.00000e+00
94.6	0.00000e+00	0.00000e+00	0.00000e+00
94.7	0.00000e+00	0.00000e+00	0.00000e+00
94.8	0.00000e+00	0.00000e+00	0.00000e+00
94.9	0.00000e+00	0.00000e+00	0.00000e+00
95.0	0.00000e+00	0.00000e+00	0.00000e+00
95.1	0.00000e+00	0.00000e+00	0.00000e+00
95.2	0.00000e+00	0.00000e+00	0.00000e+00
95.3	0.00000e+00	0.00000e+00	0.00000e+00
95.4	0.00000e+00	0.00000e+00	0.00000e+00
95.5	0.00000e+00	0.00000e+00	0.00000e+00
95.6	0.00000e+00	0.00000e+00	0.00000e+00
95.7	0.00000e+00	0.00000e+00	0.00000e+00
95.8	0.00000e+00	0.00000e+00	0.00000e+00
95.9	0.00000e+00	0.00000e+00	0.00000e+00
96.0	0.00000e+00	0.00000e+00	0.00000e+00
96.1	0.00000e+00	0.00000e+00	0.00000e+00
96.2	0.00000e+00	0.00000e+00	0.00000e+00
96.3	0.00000e+00	0.00000e+00	0.00000e+00
96.4	0.00000e+00	0.00000e+00	0.00000e+00
96.5	0.00000e+00	0.00000e+00	0.00000e+00
96.6	0.00000e+00	0.00000e+00	0.00000e+00
96.7	0.00000e+00	0.00000e+00	0.00000e+00
96.8	0.00000e+00	0.00000e+00	0.00000e+00
96.9	0.00000e+00	0.00000e+00	0.00000e+00
97.0	0.00000e+00	0.00000e+00	0.00000e+00
97.1	0.00000e+00	0.00000e+00	0.00000e+00
97.2	0.00000e+00	0.00000e+00	0.00000e+00
97.3	0.00000e+00	0.00000e+00	0.00000e+00
97.4	0.00000e+00	0.00000e+00	0.00000e+00
97.5	0.00000e+00	0.00000e+00	0.00000e+00
97.6	0.00000e+00	0.00000e+00	0.00000e+00
97.7	0.00000e+00	0.00000e+00	0.00000e+00
97.8	0.00000e+00	0.00000e+00	0.00000e+00
97.9	0.00000e+00	0.00000e+00	0.00000e+00
98.0	0.00000e+00	0.00000e+00	0.00000e+00
98.1	0.00000e+00	0.00000e+00	0.00000e+00
98.2	0.00000e+00	0.00000e+00	0.00000e+00
98.3	0.00000e+00	0.00000e+00	0.00000e+00
98.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
98.5	0.00000e+00	0.00000e+00	0.00000e+00
98.6	0.00000e+00	0.00000e+00	0.00000e+00
98.7	0.00000e+00	0.00000e+00	0.00000e+00
98.8	0.00000e+00	0.00000e+00	0.00000e+00
98.9	0.00000e+00	0.00000e+00	0.00000e+00
99.0	0.00000e+00	0.00000e+00	0.00000e+00
99.1	0.00000e+00	0.00000e+00	0.00000e+00
99.2	0.00000e+00	0.00000e+00	0.00000e+00
99.3	0.00000e+00	0.00000e+00	0.00000e+00
99.4	0.00000e+00	0.00000e+00	0.00000e+00
99.5	0.00000e+00	0.00000e+00	0.00000e+00
99.6	0.00000e+00	0.00000e+00	0.00000e+00
99.7	0.00000e+00	0.00000e+00	0.00000e+00
99.8	0.00000e+00	0.00000e+00	0.00000e+00
99.9	0.00000e+00	0.00000e+00	0.00000e+00
100.0	0.00000e+00	0.00000e+00	0.00000e+00
100.1	0.00000e+00	0.00000e+00	0.00000e+00
100.2	0.00000e+00	0.00000e+00	0.00000e+00
100.3	0.00000e+00	0.00000e+00	0.00000e+00
100.4	0.00000e+00	0.00000e+00	0.00000e+00
100.5	0.00000e+00	0.00000e+00	0.00000e+00
100.6	0.00000e+00	0.00000e+00	0.00000e+00
100.7	0.00000e+00	0.00000e+00	0.00000e+00
100.8	0.00000e+00	0.00000e+00	0.00000e+00
100.9	0.00000e+00	0.00000e+00	0.00000e+00
101.0	0.00000e+00	0.00000e+00	0.00000e+00
101.1	0.00000e+00	0.00000e+00	0.00000e+00
101.2	0.00000e+00	0.00000e+00	0.00000e+00
101.3	0.00000e+00	0.00000e+00	0.00000e+00
101.4	0.00000e+00	0.00000e+00	0.00000e+00
101.5	0.00000e+00	0.00000e+00	0.00000e+00
101.6	0.00000e+00	0.00000e+00	0.00000e+00
101.7	0.00000e+00	0.00000e+00	0.00000e+00
101.8	0.00000e+00	0.00000e+00	0.00000e+00
101.9	0.00000e+00	0.00000e+00	0.00000e+00
102.0	0.00000e+00	0.00000e+00	0.00000e+00
102.1	0.00000e+00	0.00000e+00	0.00000e+00
102.2	0.00000e+00	0.00000e+00	0.00000e+00
102.3	0.00000e+00	0.00000e+00	0.00000e+00
102.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
102.5	0.00000e+00	0.00000e+00	0.00000e+00
102.6	0.00000e+00	0.00000e+00	0.00000e+00
102.7	0.00000e+00	0.00000e+00	0.00000e+00
102.8	0.00000e+00	0.00000e+00	0.00000e+00
102.9	0.00000e+00	0.00000e+00	0.00000e+00
103.0	0.00000e+00	0.00000e+00	0.00000e+00
103.1	0.00000e+00	0.00000e+00	0.00000e+00
103.2	0.00000e+00	0.00000e+00	0.00000e+00
103.3	0.00000e+00	0.00000e+00	0.00000e+00
103.4	0.00000e+00	0.00000e+00	0.00000e+00
103.5	0.00000e+00	0.00000e+00	0.00000e+00
103.6	0.00000e+00	0.00000e+00	0.00000e+00
103.7	0.00000e+00	0.00000e+00	0.00000e+00
103.8	0.00000e+00	0.00000e+00	0.00000e+00
103.9	0.00000e+00	0.00000e+00	0.00000e+00
104.0	0.00000e+00	0.00000e+00	0.00000e+00
104.1	0.00000e+00	0.00000e+00	0.00000e+00
104.2	0.00000e+00	0.00000e+00	0.00000e+00
104.3	0.00000e+00	0.00000e+00	0.00000e+00
104.4	0.00000e+00	0.00000e+00	0.00000e+00
104.5	0.00000e+00	0.00000e+00	0.00000e+00
104.6	0.00000e+00	0.00000e+00	0.00000e+00
104.7	0.00000e+00	0.00000e+00	0.00000e+00
104.8	0.00000e+00	0.00000e+00	0.00000e+00
104.9	0.00000e+00	0.00000e+00	0.00000e+00
105.0	0.00000e+00	0.00000e+00	0.00000e+00
105.1	0.00000e+00	0.00000e+00	0.00000e+00
105.2	0.00000e+00	0.00000e+00	0.00000e+00
105.3	0.00000e+00	0.00000e+00	0.00000e+00
105.4	0.00000e+00	0.00000e+00	0.00000e+00
105.5	0.00000e+00	0.00000e+00	0.00000e+00
105.6	0.00000e+00	0.00000e+00	0.00000e+00
105.7	0.00000e+00	0.00000e+00	0.00000e+00
105.8	0.00000e+00	0.00000e+00	0.00000e+00
105.9	0.00000e+00	0.00000e+00	0.00000e+00
106.0	0.00000e+00	0.00000e+00	0.00000e+00
106.1	0.00000e+00	0.00000e+00	0.00000e+00
106.2	0.00000e+00	0.00000e+00	0.00000e+00
106.3	0.00000e+00	0.00000e+00	0.00000e+00
106.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
106.5	0.00000e+00	0.00000e+00	0.00000e+00
106.6	0.00000e+00	0.00000e+00	0.00000e+00
106.7	0.00000e+00	0.00000e+00	0.00000e+00
106.8	0.00000e+00	0.00000e+00	0.00000e+00
106.9	0.00000e+00	0.00000e+00	0.00000e+00
107.0	0.00000e+00	0.00000e+00	0.00000e+00
107.1	0.00000e+00	0.00000e+00	0.00000e+00
107.2	0.00000e+00	0.00000e+00	0.00000e+00
107.3	0.00000e+00	0.00000e+00	0.00000e+00
107.4	0.00000e+00	0.00000e+00	0.00000e+00
107.5	0.00000e+00	0.00000e+00	0.00000e+00
107.6	0.00000e+00	0.00000e+00	0.00000e+00
107.7	0.00000e+00	0.00000e+00	0.00000e+00
107.8	0.00000e+00	0.00000e+00	0.00000e+00
107.9	0.00000e+00	0.00000e+00	0.00000e+00
108.0	0.00000e+00	0.00000e+00	0.00000e+00
108.1	0.00000e+00	0.00000e+00	0.00000e+00
108.2	0.00000e+00	0.00000e+00	0.00000e+00
108.3	0.00000e+00	0.00000e+00	0.00000e+00
108.4	0.00000e+00	0.00000e+00	0.00000e+00
108.5	0.00000e+00	0.00000e+00	0.00000e+00
108.6	0.00000e+00	0.00000e+00	0.00000e+00
108.7	0.00000e+00	0.00000e+00	0.00000e+00
108.8	0.00000e+00	0.00000e+00	0.00000e+00
108.9	0.00000e+00	0.00000e+00	0.00000e+00
109.0	0.00000e+00	0.00000e+00	0.00000e+00
109.1	0.00000e+00	0.00000e+00	0.00000e+00
109.2	0.00000e+00	0.00000e+00	0.00000e+00
109.3	0.00000e+00	0.00000e+00	0.00000e+00
109.4	0.00000e+00	0.00000e+00	0.00000e+00
109.5	0.00000e+00	0.00000e+00	0.00000e+00
109.6	0.00000e+00	0.00000e+00	0.00000e+00
109.7	0.00000e+00	0.00000e+00	0.00000e+00
109.8	0.00000e+00	0.00000e+00	0.00000e+00
109.9	0.00000e+00	0.00000e+00	0.00000e+00
110.0	0.00000e+00	0.00000e+00	0.00000e+00
110.1	0.00000e+00	0.00000e+00	0.00000e+00
110.2	0.00000e+00	0.00000e+00	0.00000e+00
110.3	0.00000e+00	0.00000e+00	0.00000e+00
110.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
110.5	0.00000e+00	0.00000e+00	0.00000e+00
110.6	0.00000e+00	0.00000e+00	0.00000e+00
110.7	0.00000e+00	0.00000e+00	0.00000e+00
110.8	0.00000e+00	0.00000e+00	0.00000e+00
110.9	0.00000e+00	0.00000e+00	0.00000e+00
111.0	0.00000e+00	0.00000e+00	0.00000e+00
111.1	0.00000e+00	0.00000e+00	0.00000e+00
111.2	0.00000e+00	0.00000e+00	0.00000e+00
111.3	0.00000e+00	0.00000e+00	0.00000e+00
111.4	0.00000e+00	0.00000e+00	0.00000e+00
111.5	0.00000e+00	0.00000e+00	0.00000e+00
111.6	0.00000e+00	0.00000e+00	0.00000e+00
111.7	0.00000e+00	0.00000e+00	0.00000e+00
111.8	0.00000e+00	0.00000e+00	0.00000e+00
111.9	0.00000e+00	0.00000e+00	0.00000e+00
112.0	0.00000e+00	0.00000e+00	0.00000e+00
112.1	0.00000e+00	0.00000e+00	0.00000e+00
112.2	0.00000e+00	0.00000e+00	0.00000e+00
112.3	0.00000e+00	0.00000e+00	0.00000e+00
112.4	0.00000e+00	0.00000e+00	0.00000e+00
112.5	0.00000e+00	0.00000e+00	0.00000e+00
112.6	0.00000e+00	0.00000e+00	0.00000e+00
112.7	0.00000e+00	0.00000e+00	0.00000e+00
112.8	0.00000e+00	0.00000e+00	0.00000e+00
112.9	0.00000e+00	0.00000e+00	0.00000e+00
113.0	0.00000e+00	0.00000e+00	0.00000e+00
113.1	0.00000e+00	0.00000e+00	0.00000e+00
113.2	0.00000e+00	0.00000e+00	0.00000e+00
113.3	0.00000e+00	0.00000e+00	0.00000e+00
113.4	0.00000e+00	0.00000e+00	0.00000e+00
113.5	0.00000e+00	0.00000e+00	0.00000e+00
113.6	0.00000e+00	0.00000e+00	0.00000e+00
113.7	0.00000e+00	0.00000e+00	0.00000e+00
113.8	0.00000e+00	0.00000e+00	0.00000e+00
113.9	0.00000e+00	0.00000e+00	0.00000e+00
114.0	0.00000e+00	0.00000e+00	0.00000e+00
114.1	0.00000e+00	0.00000e+00	0.00000e+00
114.2	0.00000e+00	0.00000e+00	0.00000e+00
114.3	0.00000e+00	0.00000e+00	0.00000e+00
114.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
114.5	0.00000e+00	0.00000e+00	0.00000e+00
114.6	0.00000e+00	0.00000e+00	0.00000e+00
114.7	0.00000e+00	0.00000e+00	0.00000e+00
114.8	0.00000e+00	0.00000e+00	0.00000e+00
114.9	0.00000e+00	0.00000e+00	0.00000e+00
115.0	0.00000e+00	0.00000e+00	0.00000e+00
115.1	0.00000e+00	0.00000e+00	0.00000e+00
115.2	0.00000e+00	0.00000e+00	0.00000e+00
115.3	0.00000e+00	0.00000e+00	0.00000e+00
115.4	0.00000e+00	0.00000e+00	0.00000e+00
115.5	0.00000e+00	0.00000e+00	0.00000e+00
115.6	0.00000e+00	0.00000e+00	0.00000e+00
115.7	0.00000e+00	0.00000e+00	0.00000e+00
115.8	0.00000e+00	0.00000e+00	0.00000e+00
115.9	0.00000e+00	0.00000e+00	0.00000e+00
116.0	0.00000e+00	0.00000e+00	0.00000e+00
116.1	0.00000e+00	0.00000e+00	0.00000e+00
116.2	0.00000e+00	0.00000e+00	0.00000e+00
116.3	0.00000e+00	0.00000e+00	0.00000e+00
116.4	0.00000e+00	0.00000e+00	0.00000e+00
116.5	0.00000e+00	0.00000e+00	0.00000e+00
116.6	0.00000e+00	0.00000e+00	0.00000e+00
116.7	0.00000e+00	0.00000e+00	0.00000e+00
116.8	0.00000e+00	0.00000e+00	0.00000e+00
116.9	0.00000e+00	0.00000e+00	0.00000e+00
117.0	0.00000e+00	0.00000e+00	0.00000e+00
117.1	0.00000e+00	0.00000e+00	0.00000e+00
117.2	0.00000e+00	0.00000e+00	0.00000e+00
117.3	0.00000e+00	0.00000e+00	0.00000e+00
117.4	0.00000e+00	0.00000e+00	0.00000e+00
117.5	0.00000e+00	0.00000e+00	0.00000e+00
117.6	0.00000e+00	0.00000e+00	0.00000e+00
117.7	0.00000e+00	0.00000e+00	0.00000e+00
117.8	0.00000e+00	0.00000e+00	0.00000e+00
117.9	0.00000e+00	0.00000e+00	0.00000e+00
118.0	0.00000e+00	0.00000e+00	0.00000e+00
118.1	0.00000e+00	0.00000e+00	0.00000e+00
118.2	0.00000e+00	0.00000e+00	0.00000e+00
118.3	0.00000e+00	0.00000e+00	0.00000e+00
118.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
118.5	0.00000e+00	0.00000e+00	0.00000e+00
118.6	0.00000e+00	0.00000e+00	0.00000e+00
118.7	0.00000e+00	0.00000e+00	0.00000e+00
118.8	0.00000e+00	0.00000e+00	0.00000e+00
118.9	0.00000e+00	0.00000e+00	0.00000e+00
119.0	0.00000e+00	0.00000e+00	0.00000e+00
119.1	0.00000e+00	0.00000e+00	0.00000e+00
119.2	0.00000e+00	0.00000e+00	0.00000e+00
119.3	0.00000e+00	0.00000e+00	0.00000e+00
119.4	0.00000e+00	0.00000e+00	0.00000e+00
119.5	0.00000e+00	0.00000e+00	0.00000e+00
119.6	0.00000e+00	0.00000e+00	0.00000e+00
119.7	0.00000e+00	0.00000e+00	0.00000e+00
119.8	0.00000e+00	0.00000e+00	0.00000e+00
119.9	0.00000e+00	0.00000e+00	0.00000e+00
120.0	0.00000e+00	0.00000e+00	0.00000e+00
120.1	0.00000e+00	0.00000e+00	0.00000e+00
120.2	0.00000e+00	0.00000e+00	0.00000e+00
120.3	0.00000e+00	0.00000e+00	0.00000e+00
120.4	0.00000e+00	0.00000e+00	0.00000e+00
120.5	0.00000e+00	0.00000e+00	0.00000e+00
120.6	0.00000e+00	0.00000e+00	0.00000e+00
120.7	0.00000e+00	0.00000e+00	0.00000e+00
120.8	0.00000e+00	0.00000e+00	0.00000e+00
120.9	0.00000e+00	0.00000e+00	0.00000e+00
121.0	0.00000e+00	0.00000e+00	0.00000e+00
121.1	0.00000e+00	0.00000e+00	0.00000e+00
121.2	0.00000e+00	0.00000e+00	0.00000e+00
121.3	0.00000e+00	0.00000e+00	0.00000e+00
121.4	0.00000e+00	0.00000e+00	0.00000e+00
121.5	0.00000e+00	0.00000e+00	0.00000e+00
121.6	0.00000e+00	0.00000e+00	0.00000e+00
121.7	0.00000e+00	0.00000e+00	0.00000e+00
121.8	0.00000e+00	0.00000e+00	0.00000e+00
121.9	0.00000e+00	0.00000e+00	0.00000e+00
122.0	0.00000e+00	0.00000e+00	0.00000e+00
122.1	0.00000e+00	0.00000e+00	0.00000e+00
122.2	0.00000e+00	0.00000e+00	0.00000e+00
122.3	0.00000e+00	0.00000e+00	0.00000e+00
122.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
122.5	0.00000e+00	0.00000e+00	0.00000e+00
122.6	0.00000e+00	0.00000e+00	0.00000e+00
122.7	0.00000e+00	0.00000e+00	0.00000e+00
122.8	0.00000e+00	0.00000e+00	0.00000e+00
122.9	0.00000e+00	0.00000e+00	0.00000e+00
123.0	0.00000e+00	0.00000e+00	0.00000e+00
123.1	0.00000e+00	0.00000e+00	0.00000e+00
123.2	0.00000e+00	0.00000e+00	0.00000e+00
123.3	0.00000e+00	0.00000e+00	0.00000e+00
123.4	0.00000e+00	0.00000e+00	0.00000e+00
123.5	0.00000e+00	0.00000e+00	0.00000e+00
123.6	0.00000e+00	0.00000e+00	0.00000e+00
123.7	0.00000e+00	0.00000e+00	0.00000e+00
123.8	0.00000e+00	0.00000e+00	0.00000e+00
123.9	0.00000e+00	0.00000e+00	0.00000e+00
124.0	0.00000e+00	0.00000e+00	0.00000e+00
124.1	0.00000e+00	0.00000e+00	0.00000e+00
124.2	0.00000e+00	0.00000e+00	0.00000e+00
124.3	0.00000e+00	0.00000e+00	0.00000e+00
124.4	0.00000e+00	0.00000e+00	0.00000e+00
124.5	0.00000e+00	0.00000e+00	0.00000e+00
124.6	0.00000e+00	0.00000e+00	0.00000e+00
124.7	0.00000e+00	0.00000e+00	0.00000e+00
124.8	0.00000e+00	0.00000e+00	0.00000e+00
124.9	0.00000e+00	0.00000e+00	0.00000e+00
125.0	0.00000e+00	0.00000e+00	0.00000e+00
125.1	0.00000e+00	0.00000e+00	0.00000e+00
125.2	0.00000e+00	0.00000e+00	0.00000e+00
125.3	0.00000e+00	0.00000e+00	0.00000e+00
125.4	0.00000e+00	0.00000e+00	0.00000e+00
125.5	0.00000e+00	0.00000e+00	0.00000e+00
125.6	0.00000e+00	0.00000e+00	0.00000e+00
125.7	0.00000e+00	0.00000e+00	0.00000e+00
125.8	0.00000e+00	0.00000e+00	0.00000e+00
125.9	0.00000e+00	0.00000e+00	0.00000e+00
126.0	0.00000e+00	0.00000e+00	0.00000e+00
126.1	0.00000e+00	0.00000e+00	0.00000e+00
126.2	0.00000e+00	0.00000e+00	0.00000e+00
126.3	0.00000e+00	0.00000e+00	0.00000e+00
126.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
126.5	0.00000e+00	0.00000e+00	0.00000e+00
126.6	0.00000e+00	0.00000e+00	0.00000e+00
126.7	0.00000e+00	0.00000e+00	0.00000e+00
126.8	0.00000e+00	0.00000e+00	0.00000e+00
126.9	0.00000e+00	0.00000e+00	0.00000e+00
127.0	0.00000e+00	0.00000e+00	0.00000e+00
127.1	0.00000e+00	0.00000e+00	0.00000e+00
127.2	0.00000e+00	0.00000e+00	0.00000e+00
127.3	0.00000e+00	0.00000e+00	0.00000e+00
127.4	0.00000e+00	0.00000e+00	0.00000e+00
127.5	0.00000e+00	0.00000e+00	0.00000e+00
127.6	0.00000e+00	0.00000e+00	0.00000e+00
127.7	0.00000e+00	0.00000e+00	0.00000e+00
127.8	0.00000e+00	0.00000e+00	0.00000e+00
127.9	0.00000e+00	0.00000e+00	0.00000e+00
128.0	0.00000e+00	0.00000e+00	0.00000e+00
128.1	0.00000e+00	0.00000e+00	0.00000e+00
128.2	0.00000e+00	0.00000e+00	0.00000e+00
128.3	0.00000e+00	0.00000e+00	0.00000e+00
128.4	0.00000e+00	0.00000e+00	0.00000e+00
128.5	0.00000e+00	0.00000e+00	0.00000e+00
128.6	0.00000e+00	0.00000e+00	0.00000e+00
128.7	0.00000e+00	0.00000e+00	0.00000e+00
128.8	0.00000e+00	0.00000e+00	0.00000e+00
128.9	0.00000e+00	0.00000e+00	0.00000e+00
129.0	0.00000e+00	0.00000e+00	0.00000e+00
129.1	0.00000e+00	0.00000e+00	0.00000e+00
129.2	0.00000e+00	0.00000e+00	0.00000e+00
129.3	0.00000e+00	0.00000e+00	0.00000e+00
129.4	0.00000e+00	0.00000e+00	0.00000e+00
129.5	0.00000e+00	0.00000e+00	0.00000e+00
129.6	0.00000e+00	0.00000e+00	0.00000e+00
129.7	0.00000e+00	0.00000e+00	0.00000e+00
129.8	0.00000e+00	0.00000e+00	0.00000e+00
129.9	0.00000e+00	0.00000e+00	0.00000e+00
130.0	0.00000e+00	0.00000e+00	0.00000e+00
130.1	0.00000e+00	0.00000e+00	0.00000e+00
130.2	0.00000e+00	0.00000e+00	0.00000e+00
130.3	0.00000e+00	0.00000e+00	0.00000e+00
130.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
130.5	0.00000e+00	0.00000e+00	0.00000e+00
130.6	0.00000e+00	0.00000e+00	0.00000e+00
130.7	0.00000e+00	0.00000e+00	0.00000e+00
130.8	0.00000e+00	0.00000e+00	0.00000e+00
130.9	0.00000e+00	0.00000e+00	0.00000e+00
131.0	0.00000e+00	0.00000e+00	0.00000e+00
131.1	0.00000e+00	0.00000e+00	0.00000e+00
131.2	0.00000e+00	0.00000e+00	0.00000e+00
131.3	0.00000e+00	0.00000e+00	0.00000e+00
131.4	0.00000e+00	0.00000e+00	0.00000e+00
131.5	0.00000e+00	0.00000e+00	0.00000e+00
131.6	0.00000e+00	0.00000e+00	0.00000e+00
131.7	0.00000e+00	0.00000e+00	0.00000e+00
131.8	0.00000e+00	0.00000e+00	0.00000e+00
131.9	0.00000e+00	0.00000e+00	0.00000e+00
132.0	0.00000e+00	0.00000e+00	0.00000e+00
132.1	0.00000e+00	0.00000e+00	0.00000e+00
132.2	0.00000e+00	0.00000e+00	0.00000e+00
132.3	0.00000e+00	0.00000e+00	0.00000e+00
132.4	0.00000e+00	0.00000e+00	0.00000e+00
132.5	0.00000e+00	0.00000e+00	0.00000e+00
132.6	0.00000e+00	0.00000e+00	0.00000e+00
132.7	0.00000e+00	0.00000e+00	0.00000e+00
132.8	0.00000e+00	0.00000e+00	0.00000e+00
132.9	0.00000e+00	0.00000e+00	0.00000e+00
133.0	0.00000e+00	0.00000e+00	0.00000e+00
133.1	0.00000e+00	0.00000e+00	0.00000e+00
133.2	0.00000e+00	0.00000e+00	0.00000e+00
133.3	0.00000e+00	0.00000e+00	0.00000e+00
133.4	0.00000e+00	0.00000e+00	0.00000e+00
133.5	0.00000e+00	0.00000e+00	0.00000e+00
133.6	0.00000e+00	0.00000e+00	0.00000e+00
133.7	0.00000e+00	0.00000e+00	0.00000e+00
133.8	0.00000e+00	0.00000e+00	0.00000e+00
133.9	0.00000e+00	0.00000e+00	0.00000e+00
134.0	0.00000e+00	0.00000e+00	0.00000e+00
134.1	0.00000e+00	0.00000e+00	0.00000e+00
134.2	0.00000e+00	0.00000e+00	0.00000e+00
134.3	0.00000e+00	0.00000e+00	0.00000e+00
134.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
134.5	0.00000e+00	0.00000e+00	0.00000e+00
134.6	0.00000e+00	0.00000e+00	0.00000e+00
134.7	0.00000e+00	0.00000e+00	0.00000e+00
134.8	0.00000e+00	0.00000e+00	0.00000e+00
134.9	0.00000e+00	0.00000e+00	0.00000e+00
135.0	0.00000e+00	0.00000e+00	0.00000e+00
135.1	0.00000e+00	0.00000e+00	0.00000e+00
135.2	0.00000e+00	0.00000e+00	0.00000e+00
135.3	0.00000e+00	0.00000e+00	0.00000e+00
135.4	0.00000e+00	0.00000e+00	0.00000e+00
135.5	0.00000e+00	0.00000e+00	0.00000e+00
135.6	0.00000e+00	0.00000e+00	0.00000e+00
135.7	0.00000e+00	0.00000e+00	0.00000e+00
135.8	0.00000e+00	0.00000e+00	0.00000e+00
135.9	0.00000e+00	0.00000e+00	0.00000e+00
136.0	0.00000e+00	0.00000e+00	0.00000e+00
136.1	0.00000e+00	0.00000e+00	0.00000e+00
136.2	0.00000e+00	0.00000e+00	0.00000e+00
136.3	0.00000e+00	0.00000e+00	0.00000e+00
136.4	0.00000e+00	0.00000e+00	0.00000e+00
136.5	0.00000e+00	0.00000e+00	0.00000e+00
136.6	0.00000e+00	0.00000e+00	0.00000e+00
136.7	0.00000e+00	0.00000e+00	0.00000e+00
136.8	0.00000e+00	0.00000e+00	0.00000e+00
136.9	0.00000e+00	0.00000e+00	0.00000e+00
137.0	0.00000e+00	0.00000e+00	0.00000e+00
137.1	0.00000e+00	0.00000e+00	0.00000e+00
137.2	0.00000e+00	0.00000e+00	0.00000e+00
137.3	0.00000e+00	0.00000e+00	0.00000e+00
137.4	0.00000e+00	0.00000e+00	0.00000e+00
137.5	0.00000e+00	0.00000e+00	0.00000e+00
137.6	0.00000e+00	0.00000e+00	0.00000e+00
137.7	0.00000e+00	0.00000e+00	0.00000e+00
137.8	0.00000e+00	0.00000e+00	0.00000e+00
137.9	0.00000e+00	0.00000e+00	0.00000e+00
138.0	0.00000e+00	0.00000e+00	0.00000e+00
138.1	0.00000e+00	0.00000e+00	0.00000e+00
138.2	0.00000e+00	0.00000e+00	0.00000e+00
138.3	0.00000e+00	0.00000e+00	0.00000e+00
138.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
138.5	0.00000e+00	0.00000e+00	0.00000e+00
138.6	0.00000e+00	0.00000e+00	0.00000e+00
138.7	0.00000e+00	0.00000e+00	0.00000e+00
138.8	0.00000e+00	0.00000e+00	0.00000e+00
138.9	0.00000e+00	0.00000e+00	0.00000e+00
139.0	0.00000e+00	0.00000e+00	0.00000e+00
139.1	0.00000e+00	0.00000e+00	0.00000e+00
139.2	0.00000e+00	0.00000e+00	0.00000e+00
139.3	0.00000e+00	0.00000e+00	0.00000e+00
139.4	0.00000e+00	0.00000e+00	0.00000e+00
139.5	0.00000e+00	0.00000e+00	0.00000e+00
139.6	0.00000e+00	0.00000e+00	0.00000e+00
139.7	0.00000e+00	0.00000e+00	0.00000e+00
139.8	0.00000e+00	0.00000e+00	0.00000e+00
139.9	0.00000e+00	0.00000e+00	0.00000e+00
140.0	0.00000e+00	0.00000e+00	0.00000e+00
140.1	0.00000e+00	0.00000e+00	0.00000e+00
140.2	0.00000e+00	0.00000e+00	0.00000e+00
140.3	0.00000e+00	0.00000e+00	0.00000e+00
140.4	0.00000e+00	0.00000e+00	0.00000e+00
140.5	0.00000e+00	0.00000e+00	0.00000e+00
140.6	0.00000e+00	0.00000e+00	0.00000e+00
140.7	0.00000e+00	0.00000e+00	0.00000e+00
140.8	0.00000e+00	0.00000e+00	0.00000e+00
140.9	0.00000e+00	0.00000e+00	0.00000e+00
141.0	0.00000e+00	0.00000e+00	0.00000e+00
141.1	0.00000e+00	0.00000e+00	0.00000e+00
141.2	0.00000e+00	0.00000e+00	0.00000e+00
141.3	0.00000e+00	0.00000e+00	0.00000e+00
141.4	0.00000e+00	0.00000e+00	0.00000e+00
141.5	0.00000e+00	0.00000e+00	0.00000e+00
141.6	0.00000e+00	0.00000e+00	0.00000e+00
141.7	0.00000e+00	0.00000e+00	0.00000e+00
141.8	0.00000e+00	0.00000e+00	0.00000e+00
141.9	0.00000e+00	0.00000e+00	0.00000e+00
142.0	0.00000e+00	0.00000e+00	0.00000e+00
142.1	0.00000e+00	0.00000e+00	0.00000e+00
142.2	0.00000e+00	0.00000e+00	0.00000e+00
142.3	0.00000e+00	0.00000e+00	0.00000e+00
142.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
142.5	0.00000e+00	0.00000e+00	0.00000e+00
142.6	0.00000e+00	0.00000e+00	0.00000e+00
142.7	0.00000e+00	0.00000e+00	0.00000e+00
142.8	0.00000e+00	0.00000e+00	0.00000e+00
142.9	0.00000e+00	0.00000e+00	0.00000e+00
143.0	0.00000e+00	0.00000e+00	0.00000e+00
143.1	0.00000e+00	0.00000e+00	0.00000e+00
143.2	0.00000e+00	0.00000e+00	0.00000e+00
143.3	0.00000e+00	0.00000e+00	0.00000e+00
143.4	0.00000e+00	0.00000e+00	0.00000e+00
143.5	0.00000e+00	0.00000e+00	0.00000e+00
143.6	0.00000e+00	0.00000e+00	0.00000e+00
143.7	0.00000e+00	0.00000e+00	0.00000e+00
143.8	0.00000e+00	0.00000e+00	0.00000e+00
143.9	0.00000e+00	0.00000e+00	0.00000e+00
144.0	0.00000e+00	0.00000e+00	0.00000e+00
144.1	0.00000e+00	0.00000e+00	0.00000e+00
144.2	0.00000e+00	0.00000e+00	0.00000e+00
144.3	0.00000e+00	0.00000e+00	0.00000e+00
144.4	0.00000e+00	0.00000e+00	0.00000e+00
144.5	0.00000e+00	0.00000e+00	0.00000e+00
144.6	0.00000e+00	0.00000e+00	0.00000e+00
144.7	0.00000e+00	0.00000e+00	0.00000e+00
144.8	0.00000e+00	0.00000e+00	0.00000e+00
144.9	0.00000e+00	0.00000e+00	0.00000e+00
145.0	0.00000e+00	0.00000e+00	0.00000e+00
145.1	0.00000e+00	0.00000e+00	0.00000e+00
145.2	0.00000e+00	0.00000e+00	0.00000e+00
145.3	0.00000e+00	0.00000e+00	0.00000e+00
145.4	0.00000e+00	0.00000e+00	0.00000e+00
145.5	0.00000e+00	0.00000e+00	0.00000e+00
145.6	0.00000e+00	0.00000e+00	0.00000e+00
145.7	0.00000e+00	0.00000e+00	0.00000e+00
145.8	0.00000e+00	0.00000e+00	0.00000e+00
145.9	0.00000e+00	0.00000e+00	0.00000e+00
146.0	0.00000e+00	0.00000e+00	0.00000e+00
146.1	0.00000e+00	0.00000e+00	0.00000e+00
146.2	0.00000e+00	0.00000e+00	0.00000e+00
146.3	0.00000e+00	0.00000e+00	0.00000e+00
146.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
146.5	0.00000e+00	0.00000e+00	0.00000e+00
146.6	0.00000e+00	0.00000e+00	0.00000e+00
146.7	0.00000e+00	0.00000e+00	0.00000e+00
146.8	0.00000e+00	0.00000e+00	0.00000e+00
146.9	0.00000e+00	0.00000e+00	0.00000e+00
147.0	0.00000e+00	0.00000e+00	0.00000e+00
147.1	0.00000e+00	0.00000e+00	0.00000e+00
147.2	0.00000e+00	0.00000e+00	0.00000e+00
147.3	0.00000e+00	0.00000e+00	0.00000e+00
147.4	0.00000e+00	0.00000e+00	0.00000e+00
147.5	0.00000e+00	0.00000e+00	0.00000e+00
147.6	0.00000e+00	0.00000e+00	0.00000e+00
147.7	0.00000e+00	0.00000e+00	0.00000e+00
147.8	0.00000e+00	0.00000e+00	0.00000e+00
147.9	0.00000e+00	0.00000e+00	0.00000e+00
148.0	0.00000e+00	0.00000e+00	0.00000e+00
148.1	0.00000e+00	0.00000e+00	0.00000e+00
148.2	0.00000e+00	0.00000e+00	0.00000e+00
148.3	0.00000e+00	0.00000e+00	0.00000e+00
148.4	0.00000e+00	0.00000e+00	0.00000e+00
148.5	0.00000e+00	0.00000e+00	0.00000e+00
148.6	0.00000e+00	0.00000e+00	0.00000e+00
148.7	0.00000e+00	0.00000e+00	0.00000e+00
148.8	0.00000e+00	0.00000e+00	0.00000e+00
148.9	0.00000e+00	0.00000e+00	0.00000e+00
149.0	0.00000e+00	0.00000e+00	0.00000e+00
149.1	0.00000e+00	0.00000e+00	0.00000e+00
149.2	0.00000e+00	0.00000e+00	0.00000e+00
149.3	0.00000e+00	0.00000e+00	0.00000e+00
149.4	0.00000e+00	0.00000e+00	0.00000e+00
149.5	0.00000e+00	0.00000e+00	0.00000e+00
149.6	0.00000e+00	0.00000e+00	0.00000e+00
149.7	0.00000e+00	0.00000e+00	0.00000e+00
149.8	0.00000e+00	0.00000e+00	0.00000e+00
149.9	0.00000e+00	0.00000e+00	0.00000e+00
150.0	0.00000e+00	0.00000e+00	0.00000e+00
150.1	0.00000e+00	0.00000e+00	0.00000e+00
150.2	0.00000e+00	0.00000e+00	0.00000e+00
150.3	0.00000e+00	0.00000e+00	0.00000e+00
150.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
150.5	0.00000e+00	0.00000e+00	0.00000e+00
150.6	0.00000e+00	0.00000e+00	0.00000e+00
150.7	0.00000e+00	0.00000e+00	0.00000e+00
150.8	0.00000e+00	0.00000e+00	0.00000e+00
150.9	0.00000e+00	0.00000e+00	0.00000e+00
151.0	0.00000e+00	0.00000e+00	0.00000e+00
151.1	0.00000e+00	0.00000e+00	0.00000e+00
151.2	0.00000e+00	0.00000e+00	0.00000e+00
151.3	0.00000e+00	0.00000e+00	0.00000e+00
151.4	0.00000e+00	0.00000e+00	0.00000e+00
151.5	0.00000e+00	0.00000e+00	0.00000e+00
151.6	0.00000e+00	0.00000e+00	0.00000e+00
151.7	0.00000e+00	0.00000e+00	0.00000e+00
151.8	0.00000e+00	0.00000e+00	0.00000e+00
151.9	0.00000e+00	0.00000e+00	0.00000e+00
152.0	0.00000e+00	0.00000e+00	0.00000e+00
152.1	0.00000e+00	0.00000e+00	0.00000e+00
152.2	0.00000e+00	0.00000e+00	0.00000e+00
152.3	0.00000e+00	0.00000e+00	0.00000e+00
152.4	0.00000e+00	0.00000e+00	0.00000e+00
152.5	0.00000e+00	0.00000e+00	0.00000e+00
152.6	0.00000e+00	0.00000e+00	0.00000e+00
152.7	0.00000e+00	0.00000e+00	0.00000e+00
152.8	0.00000e+00	0.00000e+00	0.00000e+00
152.9	0.00000e+00	0.00000e+00	0.00000e+00
153.0	0.00000e+00	0.00000e+00	0.00000e+00
153.1	0.00000e+00	0.00000e+00	0.00000e+00
153.2	0.00000e+00	0.00000e+00	0.00000e+00
153.3	0.00000e+00	0.00000e+00	0.00000e+00
153.4	0.00000e+00	0.00000e+00	0.00000e+00
153.5	0.00000e+00	0.00000e+00	0.00000e+00
153.6	0.00000e+00	0.00000e+00	0.00000e+00
153.7	0.00000e+00	0.00000e+00	0.00000e+00
153.8	0.00000e+00	0.00000e+00	0.00000e+00
153.9	0.00000e+00	0.00000e+00	0.00000e+00
154.0	0.00000e+00	0.00000e+00	0.00000e+00
154.1	0.00000e+00	0.00000e+00	0.00000e+00
154.2	0.00000e+00	0.00000e+00	0.00000e+00
154.3	0.00000e+00	0.00000e+00	0.00000e+00
154.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
154.5	0.00000e+00	0.00000e+00	0.00000e+00
154.6	0.00000e+00	0.00000e+00	0.00000e+00
154.7	0.00000e+00	0.00000e+00	0.00000e+00
154.8	0.00000e+00	0.00000e+00	0.00000e+00
154.9	0.00000e+00	0.00000e+00	0.00000e+00
155.0	0.00000e+00	0.00000e+00	0.00000e+00
155.1	0.00000e+00	0.00000e+00	0.00000e+00
155.2	0.00000e+00	0.00000e+00	0.00000e+00
155.3	0.00000e+00	0.00000e+00	0.00000e+00
155.4	0.00000e+00	0.00000e+00	0.00000e+00
155.5	0.00000e+00	0.00000e+00	0.00000e+00
155.6	0.00000e+00	0.00000e+00	0.00000e+00
155.7	0.00000e+00	0.00000e+00	0.00000e+00
155.8	0.00000e+00	0.00000e+00	0.00000e+00
155.9	0.00000e+00	0.00000e+00	0.00000e+00
156.0	0.00000e+00	0.00000e+00	0.00000e+00
156.1	0.00000e+00	0.00000e+00	0.00000e+00
156.2	0.00000e+00	0.00000e+00	0.00000e+00
156.3	0.00000e+00	0.00000e+00	0.00000e+00
156.4	0.00000e+00	0.00000e+00	0.00000e+00
156.5	0.00000e+00	0.00000e+00	0.00000e+00
156.6	0.00000e+00	0.00000e+00	0.00000e+00
156.7	0.00000e+00	0.00000e+00	0.00000e+00
156.8	0.00000e+00	0.00000e+00	0.00000e+00
156.9	0.00000e+00	0.00000e+00	0.00000e+00
157.0	0.00000e+00	0.00000e+00	0.00000e+00
157.1	0.00000e+00	0.00000e+00	0.00000e+00
157.2	0.00000e+00	0.00000e+00	0.00000e+00
157.3	0.00000e+00	0.00000e+00	0.00000e+00
157.4	0.00000e+00	0.00000e+00	0.00000e+00
157.5	0.00000e+00	0.00000e+00	0.00000e+00
157.6	0.00000e+00	0.00000e+00	0.00000e+00
157.7	0.00000e+00	0.00000e+00	0.00000e+00
157.8	0.00000e+00	0.00000e+00	0.00000e+00
157.9	0.00000e+00	0.00000e+00	0.00000e+00
158.0	0.00000e+00	0.00000e+00	0.00000e+00
158.1	0.00000e+00	0.00000e+00	0.00000e+00
158.2	0.00000e+00	0.00000e+00	0.00000e+00
158.3	0.00000e+00	0.00000e+00	0.00000e+00
158.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
158.5	0.00000e+00	0.00000e+00	0.00000e+00
158.6	0.00000e+00	0.00000e+00	0.00000e+00
158.7	0.00000e+00	0.00000e+00	0.00000e+00
158.8	0.00000e+00	0.00000e+00	0.00000e+00
158.9	0.00000e+00	0.00000e+00	0.00000e+00
159.0	0.00000e+00	0.00000e+00	0.00000e+00
159.1	0.00000e+00	0.00000e+00	0.00000e+00
159.2	0.00000e+00	0.00000e+00	0.00000e+00
159.3	0.00000e+00	0.00000e+00	0.00000e+00
159.4	0.00000e+00	0.00000e+00	0.00000e+00
159.5	0.00000e+00	0.00000e+00	0.00000e+00
159.6	0.00000e+00	0.00000e+00	0.00000e+00
159.7	0.00000e+00	0.00000e+00	0.00000e+00
159.8	0.00000e+00	0.00000e+00	0.00000e+00
159.9	0.00000e+00	0.00000e+00	0.00000e+00
160.0	0.00000e+00	0.00000e+00	0.00000e+00
160.1	0.00000e+00	0.00000e+00	0.00000e+00
160.2	0.00000e+00	0.00000e+00	0.00000e+00
160.3	0.00000e+00	0.00000e+00	0.00000e+00
160.4	0.00000e+00	0.00000e+00	0.00000e+00
160.5	0.00000e+00	0.00000e+00	0.00000e+00
160.6	0.00000e+00	0.00000e+00	0.00000e+00
160.7	0.00000e+00	0.00000e+00	0.00000e+00
160.8	0.00000e+00	0.00000e+00	0.00000e+00
160.9	0.00000e+00	0.00000e+00	0.00000e+00
161.0	0.00000e+00	0.00000e+00	0.00000e+00
161.1	0.00000e+00	0.00000e+00	0.00000e+00
161.2	0.00000e+00	0.00000e+00	0.00000e+00
161.3	0.00000e+00	0.00000e+00	0.00000e+00
161.4	0.00000e+00	0.00000e+00	0.00000e+00
161.5	0.00000e+00	0.00000e+00	0.00000e+00
161.6	0.00000e+00	0.00000e+00	0.00000e+00
161.7	0.00000e+00	0.00000e+00	0.00000e+00
161.8	0.00000e+00	0.00000e+00	0.00000e+00
161.9	0.00000e+00	0.00000e+00	0.00000e+00
162.0	0.00000e+00	0.00000e+00	0.00000e+00
162.1	0.00000e+00	0.00000e+00	0.00000e+00
162.2	0.00000e+00	0.00000e+00	0.00000e+00
162.3	0.00000e+00	0.00000e+00	0.00000e+00
162.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
162.5	0.00000e+00	0.00000e+00	0.00000e+00
162.6	0.00000e+00	0.00000e+00	0.00000e+00
162.7	0.00000e+00	0.00000e+00	0.00000e+00
162.8	0.00000e+00	0.00000e+00	0.00000e+00
162.9	0.00000e+00	0.00000e+00	0.00000e+00
163.0	0.00000e+00	0.00000e+00	0.00000e+00
163.1	0.00000e+00	0.00000e+00	0.00000e+00
163.2	0.00000e+00	0.00000e+00	0.00000e+00
163.3	0.00000e+00	0.00000e+00	0.00000e+00
163.4	0.00000e+00	0.00000e+00	0.00000e+00
163.5	0.00000e+00	0.00000e+00	0.00000e+00
163.6	0.00000e+00	0.00000e+00	0.00000e+00
163.7	0.00000e+00	0.00000e+00	0.00000e+00
163.8	0.00000e+00	0.00000e+00	0.00000e+00
163.9	0.00000e+00	0.00000e+00	0.00000e+00
164.0	0.00000e+00	0.00000e+00	0.00000e+00
164.1	0.00000e+00	0.00000e+00	0.00000e+00
164.2	0.00000e+00	0.00000e+00	0.00000e+00
164.3	0.00000e+00	0.00000e+00	0.00000e+00
164.4	0.00000e+00	0.00000e+00	0.00000e+00
164.5	0.00000e+00	0.00000e+00	0.00000e+00
164.6	0.00000e+00	0.00000e+00	0.00000e+00
164.7	0.00000e+00	0.00000e+00	0.00000e+00
164.8	0.00000e+00	0.00000e+00	0.00000e+00
164.9	0.00000e+00	0.00000e+00	0.00000e+00
165.0	0.00000e+00	0.00000e+00	0.00000e+00
165.1	0.00000e+00	0.00000e+00	0.00000e+00
165.2	0.00000e+00	0.00000e+00	0.00000e+00
165.3	0.00000e+00	0.00000e+00	0.00000e+00
165.4	0.00000e+00	0.00000e+00	0.00000e+00
165.5	0.00000e+00	0.00000e+00	0.00000e+00
165.6	0.00000e+00	0.00000e+00	0.00000e+00
165.7	0.00000e+00	0.00000e+00	0.00000e+00
165.8	0.00000e+00	0.00000e+00	0.00000e+00
165.9	0.00000e+00	0.00000e+00	0.00000e+00
166.0	0.00000e+00	0.00000e+00	0.00000e+00
166.1	0.00000e+00	0.00000e+00	0.00000e+00
166.2	0.00000e+00	0.00000e+00	0.00000e+00
166.3	0.00000e+00	0.00000e+00	0.00000e+00
166.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
166.5	0.00000e+00	0.00000e+00	0.00000e+00
166.6	0.00000e+00	0.00000e+00	0.00000e+00
166.7	0.00000e+00	0.00000e+00	0.00000e+00
166.8	0.00000e+00	0.00000e+00	0.00000e+00
166.9	0.00000e+00	0.00000e+00	0.00000e+00
167.0	0.00000e+00	0.00000e+00	0.00000e+00
167.1	0.00000e+00	0.00000e+00	0.00000e+00
167.2	0.00000e+00	0.00000e+00	0.00000e+00
167.3	0.00000e+00	0.00000e+00	0.00000e+00
167.4	0.00000e+00	0.00000e+00	0.00000e+00
167.5	0.00000e+00	0.00000e+00	0.00000e+00
167.6	0.00000e+00	0.00000e+00	0.00000e+00
167.7	0.00000e+00	0.00000e+00	0.00000e+00
167.8	0.00000e+00	0.00000e+00	0.00000e+00
167.9	0.00000e+00	0.00000e+00	0.00000e+00
168.0	0.00000e+00	0.00000e+00	0.00000e+00
168.1	0.00000e+00	0.00000e+00	0.00000e+00
168.2	0.00000e+00	0.00000e+00	0.00000e+00
168.3	0.00000e+00	0.00000e+00	0.00000e+00
168.4	0.00000e+00	0.00000e+00	0.00000e+00
168.5	0.00000e+00	0.00000e+00	0.00000e+00
168.6	0.00000e+00	0.00000e+00	0.00000e+00
168.7	0.00000e+00	0.00000e+00	0.00000e+00
168.8	0.00000e+00	0.00000e+00	0.00000e+00
168.9	0.00000e+00	0.00000e+00	0.00000e+00
169.0	0.00000e+00	0.00000e+00	0.00000e+00
169.1	0.00000e+00	0.00000e+00	0.00000e+00
169.2	0.00000e+00	0.00000e+00	0.00000e+00
169.3	0.00000e+00	0.00000e+00	0.00000e+00
169.4	0.00000e+00	0.00000e+00	0.00000e+00
169.5	0.00000e+00	0.00000e+00	0.00000e+00
169.6	0.00000e+00	0.00000e+00	0.00000e+00
169.7	0.00000e+00	0.00000e+00	0.00000e+00
169.8	0.00000e+00	0.00000e+00	0.00000e+00
169.9	0.00000e+00	0.00000e+00	0.00000e+00
170.0	0.00000e+00	0.00000e+00	0.00000e+00
170.1	0.00000e+00	0.00000e+00	0.00000e+00
170.2	0.00000e+00	0.00000e+00	0.00000e+00
170.3	0.00000e+00	0.00000e+00	0.00000e+00
170.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
170.5	0.00000e+00	0.00000e+00	0.00000e+00
170.6	0.00000e+00	0.00000e+00	0.00000e+00
170.7	0.00000e+00	0.00000e+00	0.00000e+00
170.8	0.00000e+00	0.00000e+00	0.00000e+00
170.9	0.00000e+00	0.00000e+00	0.00000e+00
171.0	0.00000e+00	0.00000e+00	0.00000e+00
171.1	0.00000e+00	0.00000e+00	0.00000e+00
171.2	0.00000e+00	0.00000e+00	0.00000e+00
171.3	0.00000e+00	0.00000e+00	0.00000e+00
171.4	0.00000e+00	0.00000e+00	0.00000e+00
171.5	0.00000e+00	0.00000e+00	0.00000e+00
171.6	0.00000e+00	0.00000e+00	0.00000e+00
171.7	0.00000e+00	0.00000e+00	0.00000e+00
171.8	0.00000e+00	0.00000e+00	0.00000e+00
171.9	0.00000e+00	0.00000e+00	0.00000e+00
172.0	0.00000e+00	0.00000e+00	0.00000e+00
172.1	0.00000e+00	0.00000e+00	0.00000e+00
172.2	0.00000e+00	0.00000e+00	0.00000e+00
172.3	0.00000e+00	0.00000e+00	0.00000e+00
172.4	0.00000e+00	0.00000e+00	0.00000e+00
172.5	0.00000e+00	0.00000e+00	0.00000e+00
172.6	0.00000e+00	0.00000e+00	0.00000e+00
172.7	0.00000e+00	0.00000e+00	0.00000e+00
172.8	0.00000e+00	0.00000e+00	0.00000e+00
172.9	0.00000e+00	0.00000e+00	0.00000e+00
173.0	0.00000e+00	0.00000e+00	0.00000e+00
173.1	0.00000e+00	0.00000e+00	0.00000e+00
173.2	0.00000e+00	0.00000e+00	0.00000e+00
173.3	0.00000e+00	0.00000e+00	0.00000e+00
173.4	0.00000e+00	0.00000e+00	0.00000e+00
173.5	0.00000e+00	0.00000e+00	0.00000e+00
173.6	0.00000e+00	0.00000e+00	0.00000e+00
173.7	0.00000e+00	0.00000e+00	0.00000e+00
173.8	0.00000e+00	0.00000e+00	0.00000e+00
173.9	0.00000e+00	0.00000e+00	0.00000e+00
174.0	0.00000e+00	0.00000e+00	0.00000e+00
174.1	0.00000e+00	0.00000e+00	0.00000e+00
174.2	0.00000e+00	0.00000e+00	0.00000e+00
174.3	0.00000e+00	0.00000e+00	0.00000e+00
174.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
174.5	0.00000e+00	0.00000e+00	0.00000e+00
174.6	0.00000e+00	0.00000e+00	0.00000e+00
174.7	0.00000e+00	0.00000e+00	0.00000e+00
174.8	0.00000e+00	0.00000e+00	0.00000e+00
174.9	0.00000e+00	0.00000e+00	0.00000e+00
175.0	0.00000e+00	0.00000e+00	0.00000e+00
175.1	0.00000e+00	0.00000e+00	0.00000e+00
175.2	0.00000e+00	0.00000e+00	0.00000e+00
175.3	0.00000e+00	0.00000e+00	0.00000e+00
175.4	0.00000e+00	0.00000e+00	0.00000e+00
175.5	0.00000e+00	0.00000e+00	0.00000e+00
175.6	0.00000e+00	0.00000e+00	0.00000e+00
175.7	0.00000e+00	0.00000e+00	0.00000e+00
175.8	0.00000e+00	0.00000e+00	0.00000e+00
175.9	0.00000e+00	0.00000e+00	0.00000e+00
176.0	0.00000e+00	0.00000e+00	0.00000e+00
176.1	0.00000e+00	0.00000e+00	0.00000e+00
176.2	0.00000e+00	0.00000e+00	0.00000e+00
176.3	0.00000e+00	0.00000e+00	0.00000e+00
176.4	0.00000e+00	0.00000e+00	0.00000e+00
176.5	0.00000e+00	0.00000e+00	0.00000e+00
176.6	0.00000e+00	0.00000e+00	0.00000e+00
176.7	0.00000e+00	0.00000e+00	0.00000e+00
176.8	0.00000e+00	0.00000e+00	0.00000e+00
176.9	0.00000e+00	0.00000e+00	0.00000e+00
177.0	0.00000e+00	0.00000e+00	0.00000e+00
177.1	0.00000e+00	0.00000e+00	0.00000e+00
177.2	0.00000e+00	0.00000e+00	0.00000e+00
177.3	0.00000e+00	0.00000e+00	0.00000e+00
177.4	0.00000e+00	0.00000e+00	0.00000e+00
177.5	0.00000e+00	0.00000e+00	0.00000e+00
177.6	0.00000e+00	0.00000e+00	0.00000e+00
177.7	0.00000e+00	0.00000e+00	0.00000e+00
177.8	0.00000e+00	0.00000e+00	0.00000e+00
177.9	0.00000e+00	0.00000e+00	0.00000e+00
178.0	0.00000e+00	0.00000e+00	0.00000e+00
178.1	0.00000e+00	0.00000e+00	0.00000e+00
178.2	0.00000e+00	0.00000e+00	0.00000e+00
178.3	0.00000e+00	0.00000e+00	0.00000e+00
178.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
178.5	0.00000e+00	0.00000e+00	0.00000e+00
178.6	0.00000e+00	0.00000e+00	0.00000e+00
178.7	0.00000e+00	0.00000e+00	0.00000e+00
178.8	0.00000e+00	0.00000e+00	0.00000e+00
178.9	0.00000e+00	0.00000e+00	0.00000e+00
179.0	0.00000e+00	0.00000e+00	0.00000e+00
179.1	0.00000e+00	0.00000e+00	0.00000e+00
179.2	0.00000e+00	0.00000e+00	0.00000e+00
179.3	0.00000e+00	0.00000e+00	0.00000e+00
179.4	0.00000e+00	0.00000e+00	0.00000e+00
179.5	0.00000e+00	0.00000e+00	0.00000e+00
179.6	0.00000e+00	0.00000e+00	0.00000e+00
179.7	0.00000e+00	0.00000e+00	0.00000e+00
179.8	0.00000e+00	0.00000e+00	0.00000e+00
179.9	0.00000e+00	0.00000e+00	0.00000e+00
180.0	0.00000e+00	0.00000e+00	0.00000e+00
180.1	0.00000e+00	0.00000e+00	0.00000e+00
180.2	0.00000e+00	0.00000e+00	0.00000e+00
180.3	0.00000e+00	0.00000e+00	0.00000e+00
180.4	0.00000e+00	0.00000e+00	0.00000e+00
180.5	0.00000e+00	0.00000e+00	0.00000e+00
180.6	0.00000e+00	0.00000e+00	0.00000e+00
180.7	0.00000e+00	0.00000e+00	0.00000e+00
180.8	0.00000e+00	0.00000e+00	0.00000e+00
180.9	0.00000e+00	0.00000e+00	0.00000e+00
181.0	0.00000e+00	0.00000e+00	0.00000e+00
181.1	0.00000e+00	0.00000e+00	0.00000e+00
181.2	0.00000e+00	0.00000e+00	0.00000e+00
181.3	0.00000e+00	0.00000e+00	0.00000e+00
181.4	0.00000e+00	0.00000e+00	0.00000e+00
181.5	0.00000e+00	0.00000e+00	0.00000e+00
181.6	0.00000e+00	0.00000e+00	0.00000e+00
181.7	0.00000e+00	0.00000e+00	0.00000e+00
181.8	0.00000e+00	0.00000e+00	0.00000e+00
181.9	0.00000e+00	0.00000e+00	0.00000e+00
182.0	0.00000e+00	0.00000e+00	0.00000e+00
182.1	0.00000e+00	0.00000e+00	0.00000e+00
182.2	0.00000e+00	0.00000e+00	0.00000e+00
182.3	0.00000e+00	0.00000e+00	0.00000e+00
182.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
182.5	0.00000e+00	0.00000e+00	0.00000e+00
182.6	0.00000e+00	0.00000e+00	0.00000e+00
182.7	0.00000e+00	0.00000e+00	0.00000e+00
182.8	0.00000e+00	0.00000e+00	0.00000e+00
182.9	0.00000e+00	0.00000e+00	0.00000e+00
183.0	0.00000e+00	0.00000e+00	0.00000e+00
183.1	0.00000e+00	0.00000e+00	0.00000e+00
183.2	0.00000e+00	0.00000e+00	0.00000e+00
183.3	0.00000e+00	0.00000e+00	0.00000e+00
183.4	0.00000e+00	0.00000e+00	0.00000e+00
183.5	0.00000e+00	0.00000e+00	0.00000e+00
183.6	0.00000e+00	0.00000e+00	0.00000e+00
183.7	0.00000e+00	0.00000e+00	0.00000e+00
183.8	0.00000e+00	0.00000e+00	0.00000e+00
183.9	0.00000e+00	0.00000e+00	0.00000e+00
184.0	0.00000e+00	0.00000e+00	0.00000e+00
184.1	0.00000e+00	0.00000e+00	0.00000e+00
184.2	0.00000e+00	0.00000e+00	0.00000e+00
184.3	0.00000e+00	0.00000e+00	0.00000e+00
184.4	0.00000e+00	0.00000e+00	0.00000e+00
184.5	0.00000e+00	0.00000e+00	0.00000e+00
184.6	0.00000e+00	0.00000e+00	0.00000e+00
184.7	0.00000e+00	0.00000e+00	0.00000e+00
184.8	0.00000e+00	0.00000e+00	0.00000e+00
184.9	0.00000e+00	0.00000e+00	0.00000e+00
185.0	0.00000e+00	0.00000e+00	0.00000e+00
185.1	0.00000e+00	0.00000e+00	0.00000e+00
185.2	0.00000e+00	0.00000e+00	0.00000e+00
185.3	0.00000e+00	0.00000e+00	0.00000e+00
185.4	0.00000e+00	0.00000e+00	0.00000e+00
185.5	0.00000e+00	0.00000e+00	0.00000e+00
185.6	0.00000e+00	0.00000e+00	0.00000e+00
185.7	0.00000e+00	0.00000e+00	0.00000e+00
185.8	0.00000e+00	0.00000e+00	0.00000e+00
185.9	0.00000e+00	0.00000e+00	0.00000e+00
186.0	0.00000e+00	0.00000e+00	0.00000e+00
186.1	0.00000e+00	0.00000e+00	0.00000e+00
186.2	0.00000e+00	0.00000e+00	0.00000e+00
186.3	0.00000e+00	0.00000e+00	0.00000e+00
186.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
186.5	0.00000e+00	0.00000e+00	0.00000e+00
186.6	0.00000e+00	0.00000e+00	0.00000e+00
186.7	0.00000e+00	0.00000e+00	0.00000e+00
186.8	0.00000e+00	0.00000e+00	0.00000e+00
186.9	0.00000e+00	0.00000e+00	0.00000e+00
187.0	0.00000e+00	0.00000e+00	0.00000e+00
187.1	0.00000e+00	0.00000e+00	0.00000e+00
187.2	0.00000e+00	0.00000e+00	0.00000e+00
187.3	0.00000e+00	0.00000e+00	0.00000e+00
187.4	0.00000e+00	0.00000e+00	0.00000e+00
187.5	0.00000e+00	0.00000e+00	0.00000e+00
187.6	0.00000e+00	0.00000e+00	0.00000e+00
187.7	0.00000e+00	0.00000e+00	0.00000e+00
187.8	0.00000e+00	0.00000e+00	0.00000e+00
187.9	0.00000e+00	0.00000e+00	0.00000e+00
188.0	0.00000e+00	0.00000e+00	0.00000e+00
188.1	0.00000e+00	0.00000e+00	0.00000e+00
188.2	0.00000e+00	0.00000e+00	0.00000e+00
188.3	0.00000e+00	0.00000e+00	0.00000e+00
188.4	0.00000e+00	0.00000e+00	0.00000e+00
188.5	0.00000e+00	0.00000e+00	0.00000e+00
188.6	0.00000e+00	0.00000e+00	0.00000e+00
188.7	0.00000e+00	0.00000e+00	0.00000e+00
188.8	0.00000e+00	0.00000e+00	0.00000e+00
188.9	0.00000e+00	0.00000e+00	0.00000e+00
189.0	0.00000e+00	0.00000e+00	0.00000e+00
189.1	0.00000e+00	0.00000e+00	0.00000e+00
189.2	0.00000e+00	0.00000e+00	0.00000e+00
189.3	0.00000e+00	0.00000e+00	0.00000e+00
189.4	0.00000e+00	0.00000e+00	0.00000e+00
189.5	0.00000e+00	0.00000e+00	0.00000e+00
189.6	0.00000e+00	0.00000e+00	0.00000e+00
189.7	0.00000e+00	0.00000e+00	0.00000e+00
189.8	0.00000e+00	0.00000e+00	0.00000e+00
189.9	0.00000e+00	0.00000e+00	0.00000e+00
190.0	0.00000e+00	0.00000e+00	0.00000e+00
190.1	0.00000e+00	0.00000e+00	0.00000e+00
190.2	0.00000e+00	0.00000e+00	0.00000e+00
190.3	0.00000e+00	0.00000e+00	0.00000e+00
190.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
190.5	0.00000e+00	0.00000e+00	0.00000e+00
190.6	0.00000e+00	0.00000e+00	0.00000e+00
190.7	0.00000e+00	0.00000e+00	0.00000e+00
190.8	0.00000e+00	0.00000e+00	0.00000e+00
190.9	0.00000e+00	0.00000e+00	0.00000e+00
191.0	0.00000e+00	0.00000e+00	0.00000e+00
191.1	0.00000e+00	0.00000e+00	0.00000e+00
191.2	0.00000e+00	0.00000e+00	0.00000e+00
191.3	0.00000e+00	0.00000e+00	0.00000e+00
191.4	0.00000e+00	0.00000e+00	0.00000e+00
191.5	0.00000e+00	0.00000e+00	0.00000e+00
191.6	0.00000e+00	0.00000e+00	0.00000e+00
191.7	0.00000e+00	0.00000e+00	0.00000e+00
191.8	0.00000e+00	0.00000e+00	0.00000e+00
191.9	0.00000e+00	0.00000e+00	0.00000e+00
192.0	0.00000e+00	0.00000e+00	0.00000e+00
192.1	0.00000e+00	0.00000e+00	0.00000e+00
192.2	0.00000e+00	0.00000e+00	0.00000e+00
192.3	0.00000e+00	0.00000e+00	0.00000e+00
192.4	0.00000e+00	0.00000e+00	0.00000e+00
192.5	0.00000e+00	0.00000e+00	0.00000e+00
192.6	0.00000e+00	0.00000e+00	0.00000e+00
192.7	0.00000e+00	0.00000e+00	0.00000e+00
192.8	0.00000e+00	0.00000e+00	0.00000e+00
192.9	0.00000e+00	0.00000e+00	0.00000e+00
193.0	0.00000e+00	0.00000e+00	0.00000e+00
193.1	0.00000e+00	0.00000e+00	0.00000e+00
193.2	0.00000e+00	0.00000e+00	0.00000e+00
193.3	0.00000e+00	0.00000e+00	0.00000e+00
193.4	0.00000e+00	0.00000e+00	0.00000e+00
193.5	0.00000e+00	0.00000e+00	0.00000e+00
193.6	0.00000e+00	0.00000e+00	0.00000e+00
193.7	0.00000e+00	0.00000e+00	0.00000e+00
193.8	0.00000e+00	0.00000e+00	0.00000e+00
193.9	0.00000e+00	0.00000e+00	0.00000e+00
194.0	0.00000e+00	0.00000e+00	0.00000e+00
194.1	0.00000e+00	0.00000e+00	0.00000e+00
194.2	0.00000e+00	0.00000e+00	0.00000e+00
194.3	0.00000e+00	0.00000e+00	0.00000e+00
194.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
194.5	0.00000e+00	0.00000e+00	0.00000e+00
194.6	0.00000e+00	0.00000e+00	0.00000e+00
194.7	0.00000e+00	0.00000e+00	0.00000e+00
194.8	0.00000e+00	0.00000e+00	0.00000e+00
194.9	0.00000e+00	0.00000e+00	0.00000e+00
195.0	0.00000e+00	0.00000e+00	0.00000e+00
195.1	0.00000e+00	0.00000e+00	0.00000e+00
195.2	0.00000e+00	0.00000e+00	0.00000e+00
195.3	0.00000e+00	0.00000e+00	0.00000e+00
195.4	0.00000e+00	0.00000e+00	0.00000e+00
195.5	0.00000e+00	0.00000e+00	0.00000e+00
195.6	0.00000e+00	0.00000e+00	0.00000e+00
195.7	0.00000e+00	0.00000e+00	0.00000e+00
195.8	0.00000e+00	0.00000e+00	0.00000e+00
195.9	0.00000e+00	0.00000e+00	0.00000e+00
196.0	0.00000e+00	0.00000e+00	0.00000e+00
196.1	0.00000e+00	0.00000e+00	0.00000e+00
196.2	0.00000e+00	0.00000e+00	0.00000e+00
196.3	0.00000e+00	0.00000e+00	0.00000e+00
196.4	0.00000e+00	0.00000e+00	0.00000e+00
196.5	0.00000e+00	0.00000e+00	0.00000e+00
196.6	0.00000e+00	0.00000e+00	0.00000e+00
196.7	0.00000e+00	0.00000e+00	0.00000e+00
196.8	0.00000e+00	0.00000e+00	0.00000e+00
196.9	0.00000e+00	0.00000e+00	0.00000e+00
197.0	0.00000e+00	0.00000e+00	0.00000e+00
197.1	0.00000e+00	0.00000e+00	0.00000e+00
197.2	0.00000e+00	0.00000e+00	0.00000e+00
197.3	0.00000e+00	0.00000e+00	0.00000e+00
197.4	0.00000e+00	0.00000e+00	0.00000e+00
197.5	0.00000e+00	0.00000e+00	0.00000e+00
197.6	0.00000e+00	0.00000e+00	0.00000e+00
197.7	0.00000e+00	0.00000e+00	0.00000e+00
197.8	0.00000e+00	0.00000e+00	0.00000e+00
197.9	0.00000e+00	0.00000e+00	0.00000e+00
198.0	0.00000e+00	0.00000e+00	0.00000e+00
198.1	0.00000e+00	0.00000e+00	0.00000e+00
198.2	0.00000e+00	0.00000e+00	0.00000e+00
198.3	0.00000e+00	0.00000e+00	0.00000e+00
198.4	0.00000e+00	0.00000e+00	0.00000e+00

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x	$A(x)$	P_{v1}	P_{v2}
198.5	0.00000e+00	0.00000e+00	0.00000e+00
198.6	0.00000e+00	0.00000e+00	0.00000e+00
198.7	0.00000e+00	0.00000e+00	0.00000e+00
198.8	0.00000e+00	0.00000e+00	0.00000e+00
198.9	0.00000e+00	0.00000e+00	0.00000e+00
199.0	0.00000e+00	0.00000e+00	0.00000e+00
199.1	0.00000e+00	0.00000e+00	0.00000e+00
199.2	0.00000e+00	0.00000e+00	0.00000e+00
199.3	0.00000e+00	0.00000e+00	0.00000e+00
199.4	0.00000e+00	0.00000e+00	0.00000e+00
199.5	0.00000e+00	0.00000e+00	0.00000e+00
199.6	0.00000e+00	0.00000e+00	0.00000e+00
199.7	0.00000e+00	0.00000e+00	0.00000e+00
199.8	0.00000e+00	0.00000e+00	0.00000e+00
199.9	0.00000e+00	0.00000e+00	0.00000e+00
200.0	0.00000e+00	0.00000e+00	0.00000e+00

Table B.7.8: Output for Problem 7.1-U230

x	$A(x)$	P_{v1}	P_{v2}
0.0	1.00000e+00	1.00000e+00	1.00000e+00
0.1	2.96064e-01	3.17999e-01	3.17999e-01
0.2	8.76539e-02	1.01124e-01	1.01124e-01
0.3	2.59512e-02	1.01124e-01	1.01124e-01
0.4	7.68321e-03	1.02260e-02	1.02260e-02
0.5	2.27472e-03	3.25186e-03	3.25186e-03
0.6	6.73464e-04	3.25186e-03	3.25186e-03
0.7	1.99388e-04	3.25186e-03	3.25186e-03
0.8	5.90317e-05	1.04571e-04	1.04571e-04
0.9	1.74772e-05	3.32534e-05	3.32534e-05
1.0	5.17436e-06	1.05746e-05	1.05746e-05
1.1	1.53194e-06	3.36270e-06	3.36270e-06
1.2	4.53553e-07	3.36270e-06	3.36270e-06
1.3	1.34281e-07	3.40049e-07	3.40049e-07
1.4	3.97557e-08	3.40049e-07	3.40049e-07
1.5	1.17702e-08	3.43869e-08	3.43869e-08
1.6	3.48474e-09	1.09350e-08	1.09350e-08
1.7	1.03171e-09	1.09350e-08	1.09350e-08
1.8	3.05452e-10	1.10579e-09	1.10579e-09

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x	$A(x)$	P_{v1}	P_{v2}
1.9	9.04332e-11	1.10579e-09	1.10579e-09
2.0	2.67740e-11	1.11821e-10	1.11821e-10
2.1	7.92683e-12	3.55591e-11	3.55591e-11
2.2	2.34685e-12	1.13078e-11	1.13078e-11
2.3	6.94817e-13	1.13078e-11	1.13078e-11
2.4	2.05710e-13	1.13078e-11	1.13078e-11
2.5	6.09035e-14	3.63627e-13	3.63627e-13
2.6	1.80313e-14	1.15633e-13	1.15633e-13
2.7	5.33843e-15	3.67713e-14	3.67713e-14
2.8	1.58052e-15	3.67713e-14	3.67713e-14
2.9	4.67934e-16	3.67713e-14	3.67713e-14
3.0	1.38538e-16	1.18246e-15	1.18246e-15
3.1	4.10163e-17	3.76022e-16	3.76022e-16
3.2	1.21434e-17	1.19575e-16	1.19575e-16
3.3	3.59524e-18	1.19575e-16	1.19575e-16
3.4	1.06442e-18	1.19575e-16	1.19575e-16
3.5	3.15137e-19	3.84519e-18	3.84519e-18
3.6	9.33006e-20	1.22277e-18	1.22277e-18
3.7	2.76230e-20	3.88840e-19	3.88840e-19
3.8	8.17817e-21	3.88840e-19	3.88840e-19
3.9	2.42126e-21	3.88840e-19	3.88840e-19
4.0	7.16848e-22	1.25040e-20	1.25040e-20
4.1	2.12233e-22	1.25040e-20	1.25040e-20
4.2	6.28346e-23	1.26445e-21	1.26445e-21
4.3	1.86031e-23	4.02095e-22	4.02095e-22
4.4	5.50770e-24	1.27866e-22	1.27866e-22
4.5	1.63063e-24	4.06612e-23	4.06612e-23
4.6	4.82771e-25	4.06612e-23	4.06612e-23
4.7	1.42931e-25	4.11181e-24	4.11181e-24
4.8	4.23168e-26	4.11181e-24	4.11181e-24
4.9	1.25285e-26	4.15801e-25	4.15801e-25
5.0	3.70923e-27	1.32224e-25	1.32224e-25
5.1	1.09817e-27	1.32224e-25	1.32224e-25
5.2	3.25129e-28	1.33710e-26	1.33710e-26
5.3	9.62590e-29	1.33710e-26	1.33710e-26
5.4	2.84988e-29	1.35213e-27	1.35213e-27
5.5	8.43748e-30	4.29975e-28	4.29975e-28
5.6	2.49803e-30	4.29975e-28	4.29975e-28
5.7	7.39578e-31	4.34806e-29	4.34806e-29
5.8	2.18962e-31	4.34806e-29	4.34806e-29

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x	$A(x)$	P_{v1}	P_{v2}
5.9	6.48269e-32	4.39691e-30	4.39691e-30
6.0	1.91929e-32	1.39822e-30	1.39822e-30
6.1	5.68233e-33	1.39822e-30	1.39822e-30
6.2	1.68233e-33	1.41393e-31	1.41393e-31
6.3	4.98079e-34	1.41393e-31	1.41393e-31
6.4	1.47463e-34	1.42981e-32	1.42981e-32
6.5	4.36586e-35	4.54680e-33	4.54680e-33
6.6	1.29257e-35	4.54680e-33	4.54680e-33
6.7	3.82684e-36	4.59788e-34	4.59788e-34
6.8	1.13299e-36	4.59788e-34	4.59788e-34
6.9	3.35438e-37	4.64954e-35	4.64954e-35
7.0	9.93111e-38	1.47855e-35	1.47855e-35
7.1	2.94024e-38	1.47855e-35	1.47855e-35
7.2	8.70501e-39	1.49517e-36	1.49517e-36
7.3	2.57724e-39	1.49517e-36	1.49517e-36
7.4	7.63028e-40	1.51196e-37	1.51196e-37
7.5	2.25905e-40	4.80804e-38	4.80804e-38
7.6	6.68824e-41	4.80804e-38	4.80804e-38
7.7	1.98015e-41	4.86206e-39	4.86206e-39
7.8	5.86250e-42	4.86206e-39	4.86206e-39
7.9	1.73568e-42	4.91669e-40	4.91669e-40
8.0	5.13872e-43	1.56350e-40	1.56350e-40
8.1	1.52139e-43	4.97193e-41	4.97193e-41
8.2	4.50429e-44	4.97193e-41	4.97193e-41
8.3	1.33356e-44	5.02780e-42	5.02780e-42
8.4	3.94818e-45	1.59884e-42	1.59884e-42
8.5	1.16892e-45	5.08429e-43	5.08429e-43
8.6	3.46074e-46	1.61680e-43	1.61680e-43
8.7	1.02460e-46	1.61680e-43	1.61680e-43
8.8	3.03347e-47	1.63497e-44	1.63497e-44
8.9	8.98102e-48	5.19918e-45	5.19918e-45
9.0	2.65896e-48	1.65334e-45	1.65334e-45
9.1	7.87222e-49	5.25760e-46	5.25760e-46
9.2	2.33068e-49	5.25760e-46	5.25760e-46
9.3	6.90031e-50	5.31668e-47	5.31668e-47
9.4	2.04293e-50	1.69070e-47	1.69070e-47
9.5	6.04839e-51	5.37641e-48	5.37641e-48
9.6	1.79071e-51	5.37641e-48	5.37641e-48
9.7	5.30165e-52	5.37641e-48	5.37641e-48
9.8	1.56963e-52	1.72891e-49	1.72891e-49

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x	$A(x)$	P_{v1}	P_{v2}
9.9	4.64711e-53	5.49791e-50	5.49791e-50
10.0	1.37584e-53	1.74833e-50	1.74833e-50
10.1	4.07337e-54	1.74833e-50	1.74833e-50
10.2	1.20598e-54	1.74833e-50	1.74833e-50
10.3	3.57047e-55	5.62215e-52	5.62215e-52
10.4	1.05709e-55	1.78784e-52	1.78784e-52
10.5	3.12966e-56	5.68532e-53	5.68532e-53
10.6	9.26579e-57	5.68532e-53	5.68532e-53
10.7	2.74327e-57	5.68532e-53	5.68532e-53
10.8	8.12183e-58	1.82824e-54	1.82824e-54
10.9	2.40458e-58	5.81380e-55	5.81380e-55
11.0	7.11910e-59	1.84878e-55	1.84878e-55
11.1	2.10771e-59	1.84878e-55	1.84878e-55
11.2	6.24017e-60	1.84878e-55	1.84878e-55
11.3	1.84749e-60	5.94518e-57	5.94518e-57
11.4	5.46975e-61	1.89056e-57	1.89056e-57
11.5	1.61940e-61	6.01198e-58	6.01198e-58
11.6	4.79445e-62	6.01198e-58	6.01198e-58
11.7	1.41947e-62	6.01198e-58	6.01198e-58
11.8	4.20253e-63	1.93329e-59	1.93329e-59
11.9	1.24422e-63	6.14784e-60	6.14784e-60
12.0	3.68368e-64	1.95501e-60	1.95501e-60
12.1	1.09061e-64	1.95501e-60	1.95501e-60
12.2	3.22889e-65	1.95501e-60	1.95501e-60
12.3	9.55958e-66	6.28677e-62	6.28677e-62
12.4	2.83025e-66	1.99919e-62	1.99919e-62
12.5	8.37935e-67	6.35740e-63	6.35740e-63
12.6	2.48082e-67	6.35740e-63	6.35740e-63
12.7	7.34483e-68	6.35740e-63	6.35740e-63
12.8	2.17454e-68	2.04437e-64	2.04437e-64
12.9	6.43803e-69	6.50107e-65	6.50107e-65
13.0	1.90607e-69	2.06734e-65	2.06734e-65
13.1	5.64319e-70	2.06734e-65	2.06734e-65
13.2	1.67074e-70	2.06734e-65	2.06734e-65
13.3	4.94647e-71	6.64798e-67	6.64798e-67
13.4	1.46447e-71	2.11405e-67	2.11405e-67
13.5	4.33578e-72	6.72268e-68	6.72268e-68
13.6	1.28367e-72	6.72268e-68	6.72268e-68
13.7	3.80048e-73	6.72268e-68	6.72268e-68
13.8	1.12519e-73	2.16183e-69	2.16183e-69

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x	$A(x)$	P_{v1}	P_{v2}
13.9	3.33127e-74	6.87459e-70	6.87459e-70
14.0	9.86269e-75	2.18612e-70	2.18612e-70
14.1	2.91999e-75	2.18612e-70	2.18612e-70
14.2	8.64504e-76	2.18612e-70	2.18612e-70
14.3	2.55948e-76	7.02995e-72	7.02995e-72
14.4	7.57771e-77	2.23552e-72	2.23552e-72
14.5	2.24349e-77	7.10893e-73	7.10893e-73
14.6	6.64216e-78	7.10893e-73	7.10893e-73
14.7	1.96651e-78	7.10893e-73	7.10893e-73
14.8	5.82212e-79	2.28604e-74	2.28604e-74
14.9	1.72372e-79	7.26958e-75	7.26958e-75
15.0	5.10331e-80	2.31172e-75	2.31172e-75
15.1	1.51091e-80	2.31172e-75	2.31172e-75
15.2	4.47326e-81	2.31172e-75	2.31172e-75
15.3	1.32437e-81	7.43386e-77	7.43386e-77
15.4	3.92098e-82	2.36396e-77	2.36396e-77
15.5	1.16086e-82	7.51739e-78	7.51739e-78
15.6	3.43690e-83	7.51739e-78	7.51739e-78
15.7	1.01754e-83	7.51739e-78	7.51739e-78
15.8	3.01257e-84	2.41738e-79	2.41738e-79
15.9	8.91915e-85	7.68726e-80	7.68726e-80
16.0	2.64064e-85	2.44455e-80	2.44455e-80
16.1	7.81798e-86	7.77364e-81	7.77364e-81
16.2	2.31462e-86	2.47201e-81	2.47201e-81
16.3	6.85277e-87	7.86098e-82	7.86098e-82
16.4	2.02886e-87	7.86098e-82	7.86098e-82
16.5	6.00672e-88	7.94931e-83	7.94931e-83
16.6	1.77837e-88	2.52787e-83	2.52787e-83
16.7	5.26513e-89	8.03862e-84	8.03862e-84
16.8	1.55882e-89	2.55628e-84	2.55628e-84
16.9	4.61509e-90	2.55628e-84	2.55628e-84
17.0	1.36636e-90	2.58500e-85	2.58500e-85
17.1	4.04531e-91	8.22028e-86	8.22028e-86
17.2	1.19767e-91	2.61404e-86	2.61404e-86
17.3	3.54587e-92	8.31264e-87	8.31264e-87
17.4	1.04981e-92	8.31264e-87	8.31264e-87
17.5	3.10810e-93	8.40604e-88	8.40604e-88
17.6	9.20195e-94	2.67312e-88	2.67312e-88
17.7	2.72437e-94	8.50049e-89	8.50049e-89
17.8	8.06587e-95	2.70315e-89	2.70315e-89

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x	$A(x)$	P_{v1}	P_{v2}
17.9	2.38802e-95	2.70315e-89	2.70315e-89
18.0	7.07005e-96	2.73352e-90	2.73352e-90
18.1	2.09319e-96	8.69259e-91	8.69259e-91
18.2	6.19718e-97	2.76424e-91	2.76424e-91
18.3	1.83476e-97	8.79026e-92	8.79026e-92
18.4	5.43207e-98	8.79026e-92	8.79026e-92
18.5	1.60824e-98	8.88902e-93	8.88902e-93
18.6	4.76142e-99	2.82670e-93	2.82670e-93
18.7	1.40969e-99	8.98890e-94	8.98890e-94
18.8	4.17357e-100	2.85846e-94	2.85846e-94
18.9	1.23565e-100	2.85846e-94	2.85846e-94
19.0	3.65830e-101	2.89058e-95	2.89058e-95
19.1	1.08309e-101	9.19203e-96	9.19203e-96
19.2	3.20665e-102	9.19203e-96	9.19203e-96
19.3	9.49372e-103	9.29531e-97	9.29531e-97
19.4	2.81075e-103	9.29531e-97	9.29531e-97
19.5	8.32162e-104	9.39975e-98	9.39975e-98
19.6	2.46373e-104	2.98912e-98	2.98912e-98
19.7	7.29423e-105	2.98912e-98	2.98912e-98
19.8	2.15956e-105	3.02270e-99	3.02270e-99
19.9	6.39368e-106	3.02270e-99	3.02270e-99
20.0	1.89294e-106	3.05666e-100	3.05666e-100
20.1	5.60431e-107	9.72017e-101	9.72017e-101
20.2	1.65923e-107	9.72017e-101	9.72017e-101
20.3	4.91240e-108	9.82938e-102	9.82938e-102
20.4	1.45438e-108	9.82938e-102	9.82938e-102
20.5	4.30591e-109	9.93983e-103	9.93983e-103
20.6	1.27482e-109	3.16086e-103	3.16086e-103
20.7	3.77430e-110	3.16086e-103	3.16086e-103
20.8	1.11743e-110	3.19637e-104	3.19637e-104
20.9	3.30832e-111	3.19637e-104	3.19637e-104
21.0	9.79475e-112	3.23229e-105	3.23229e-105
21.1	2.89987e-112	1.02787e-105	1.02787e-105
21.2	8.58548e-113	1.02787e-105	1.02787e-105
21.3	2.54185e-113	1.03941e-106	1.03941e-106
21.4	7.52551e-114	1.03941e-106	1.03941e-106
21.5	2.22803e-114	1.05109e-107	1.05109e-107
21.6	6.59641e-115	3.34247e-108	3.34247e-108
21.7	1.95296e-115	3.34247e-108	3.34247e-108
21.8	5.78201e-116	3.38002e-109	3.38002e-109

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x	$A(x)$	P_{v1}	P_{v2}
21.9	1.71184e-116	3.38002e-109	3.38002e-109
22.0	5.06816e-117	3.41800e-110	3.41800e-110
22.1	1.50050e-117	1.08692e-110	1.08692e-110
22.2	4.44244e-118	1.08692e-110	1.08692e-110
22.3	1.31525e-118	1.09914e-111	1.09914e-111
22.4	3.89397e-119	1.09914e-111	1.09914e-111
22.5	1.15286e-119	1.11148e-112	1.11148e-112
22.6	3.41322e-120	3.53451e-113	3.53451e-113
22.7	1.01053e-120	3.53451e-113	3.53451e-113
22.8	2.99182e-121	3.57423e-114	3.57423e-114
22.9	8.85770e-122	3.57423e-114	3.57423e-114
23.0	2.62245e-122	3.61439e-115	3.61439e-115
23.1	7.76413e-123	1.14937e-115	1.14937e-115
23.2	2.29868e-123	1.14937e-115	1.14937e-115
23.3	6.80556e-124	1.16229e-116	1.16229e-116
23.4	2.01488e-124	1.16229e-116	1.16229e-116
23.5	5.96534e-125	1.17535e-117	1.17535e-117
23.6	1.76612e-125	3.73759e-118	3.73759e-118
23.7	5.22886e-126	3.73759e-118	3.73759e-118
23.8	1.54808e-126	3.77959e-119	3.77959e-119
23.9	4.58330e-127	3.77959e-119	3.77959e-119
24.0	1.35695e-127	3.82206e-120	3.82206e-120
24.1	4.01744e-128	1.21541e-120	1.21541e-120
24.2	1.18942e-128	1.21541e-120	1.21541e-120
24.3	3.52144e-129	1.22907e-121	1.22907e-121
24.4	1.04257e-129	1.22907e-121	1.22907e-121
24.5	3.08668e-130	1.24288e-122	1.24288e-122
24.6	9.13856e-131	3.95234e-123	3.95234e-123
24.7	2.70560e-131	3.95234e-123	3.95234e-123
24.8	8.01031e-132	3.99675e-124	3.99675e-124
24.9	2.37156e-132	3.99675e-124	3.99675e-124
25.0	7.02135e-133	4.04166e-125	4.04166e-125
25.1	2.07877e-133	1.28524e-125	1.28524e-125
25.2	6.15449e-134	1.28524e-125	1.28524e-125
25.3	1.82212e-134	1.29969e-126	1.29969e-126
25.4	5.39465e-135	1.29969e-126	1.29969e-126
25.5	1.59716e-135	1.31429e-127	1.31429e-127
25.6	4.72862e-136	4.17943e-128	4.17943e-128
25.7	1.39997e-136	4.17943e-128	4.17943e-128
25.8	4.14482e-137	4.22639e-129	4.22639e-129

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x	$A(x)$	P_{v1}	P_{v2}
25.9	1.22713e-137	4.22639e-129	4.22639e-129
26.0	3.63310e-138	4.27388e-130	4.27388e-130
26.1	1.07563e-138	1.35909e-130	1.35909e-130
26.2	3.18455e-139	1.35909e-130	1.35909e-130
26.3	9.42832e-140	1.37436e-131	1.37436e-131
26.4	2.79139e-140	1.37436e-131	1.37436e-131
26.5	8.26429e-141	1.38980e-132	1.38980e-132
26.6	2.44676e-141	4.41956e-133	4.41956e-133
26.7	7.24398e-142	4.41956e-133	4.41956e-133
26.8	2.14468e-142	4.46922e-134	4.46922e-134
26.9	6.34963e-143	4.46922e-134	4.46922e-134
27.0	1.87990e-143	4.51944e-135	4.51944e-135
27.1	5.56570e-144	1.43718e-135	1.43718e-135
27.2	1.64780e-144	1.43718e-135	1.43718e-135
27.3	4.87855e-145	1.45333e-136	1.45333e-136
27.4	1.44436e-145	1.45333e-136	1.45333e-136
27.5	4.27624e-146	1.46966e-137	1.46966e-137
27.6	1.26604e-146	4.67349e-138	4.67349e-138
27.7	3.74830e-147	4.67349e-138	4.67349e-138
27.8	1.10974e-147	4.72600e-139	4.72600e-139
27.9	3.28553e-148	4.72600e-139	4.72600e-139
28.0	9.72727e-149	4.77911e-140	4.77911e-140
28.1	2.87989e-149	1.51975e-140	1.51975e-140
28.2	8.52633e-150	1.51975e-140	1.51975e-140
28.3	2.52434e-150	1.53683e-141	1.53683e-141
28.4	7.47367e-151	1.53683e-141	1.53683e-141
28.5	2.21268e-151	1.55410e-142	1.55410e-142
28.6	6.55096e-152	4.94202e-143	4.94202e-143
28.7	1.93950e-152	4.94202e-143	4.94202e-143
28.8	5.74217e-153	4.99754e-144	4.99754e-144
28.9	1.70005e-153	4.99754e-144	4.99754e-144
29.0	5.03324e-154	5.05369e-145	5.05369e-145
29.1	1.49016e-154	1.60707e-145	1.60707e-145
29.2	4.41183e-155	1.60707e-145	1.60707e-145
29.3	1.30619e-155	1.62513e-146	1.62513e-146
29.4	3.86715e-156	1.62513e-146	1.62513e-146
29.5	1.14492e-156	1.64339e-147	1.64339e-147
29.6	3.38970e-157	5.22596e-148	5.22596e-148
29.7	1.00357e-157	5.22596e-148	5.22596e-148
29.8	2.97121e-158	5.28468e-149	5.28468e-149

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x	$A(x)$	P_{v1}	P_{v2}
29.9	8.79668e-159	5.28468e-149	5.28468e-149
30.0	2.60438e-159	5.34406e-150	5.34406e-150
30.1	7.71064e-160	1.69941e-150	1.69941e-150
30.2	2.28284e-160	1.69941e-150	1.69941e-150
30.3	6.75868e-161	1.71850e-151	1.71850e-151
30.4	2.00100e-161	1.71850e-151	1.71850e-151
30.5	5.92425e-162	1.73781e-152	1.73781e-152
30.6	1.75396e-162	5.52623e-153	5.52623e-153
30.7	5.19283e-163	5.52623e-153	5.52623e-153
30.8	1.53741e-163	5.58832e-154	5.58832e-154
30.9	4.55172e-164	5.58832e-154	5.58832e-154
31.0	1.34760e-164	5.65111e-155	5.65111e-155
31.1	3.98976e-165	1.79705e-155	1.79705e-155
31.2	1.18123e-165	1.79705e-155	1.79705e-155
31.3	3.49718e-166	1.81724e-156	1.81724e-156
31.4	1.03539e-166	1.81724e-156	1.81724e-156
31.5	3.06542e-167	1.83766e-157	1.83766e-157
31.6	9.07560e-168	5.84374e-158	5.84374e-158
31.7	2.68696e-168	5.84374e-158	5.84374e-158
31.8	7.95512e-169	5.90940e-159	5.90940e-159
31.9	2.35523e-169	5.90940e-159	5.90940e-159
32.0	6.97298e-170	5.97580e-160	5.97580e-160
32.1	2.06445e-170	1.90030e-160	1.90030e-160
32.2	6.11209e-171	6.04294e-161	6.04294e-161
32.3	1.80957e-171	6.04294e-161	6.04294e-161
32.4	5.35749e-172	6.11084e-162	6.11084e-162
32.5	1.58616e-172	1.94324e-162	1.94324e-162
32.6	4.69605e-173	6.17950e-163	6.17950e-163
32.7	1.39033e-173	1.96508e-163	1.96508e-163
32.8	4.11627e-174	1.96508e-163	1.96508e-163
32.9	1.21868e-174	1.98716e-164	1.98716e-164
33.0	3.60807e-175	6.31915e-165	6.31915e-165
33.1	1.06822e-175	2.00949e-165	2.00949e-165
33.2	3.16262e-176	6.39015e-166	6.39015e-166
33.3	9.36337e-177	6.39015e-166	6.39015e-166
33.4	2.77216e-177	6.46195e-167	6.46195e-167
33.5	8.20736e-178	2.05490e-167	2.05490e-167
33.6	2.42990e-178	6.53455e-168	6.53455e-168
33.7	7.19407e-179	2.07798e-168	2.07798e-168
33.8	2.12991e-179	2.07798e-168	2.07798e-168

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x	$A(x)$	P_{v1}	P_{v2}
33.9	6.30589e-180	2.10133e-169	2.10133e-169
34.0	1.86695e-180	6.68222e-170	6.68222e-170
34.1	5.52736e-181	2.12494e-170	2.12494e-170
34.2	1.63645e-181	6.75730e-171	6.75730e-171
34.3	4.84495e-182	6.75730e-171	6.75730e-171
34.4	1.43441e-182	6.83323e-172	6.83323e-172
34.5	4.24679e-183	2.17296e-172	2.17296e-172
34.6	1.25732e-183	6.91000e-173	6.91000e-173
34.7	3.72247e-184	2.19738e-173	2.19738e-173
34.8	1.10209e-184	2.19738e-173	2.19738e-173
34.9	3.26289e-185	2.22207e-174	2.22207e-174
35.0	9.66026e-186	7.06616e-175	7.06616e-175
35.1	2.86006e-186	2.24703e-175	2.24703e-175
35.2	8.46759e-187	7.14555e-176	7.14555e-176
35.3	2.50695e-187	7.14555e-176	7.14555e-176
35.4	7.42218e-188	7.22584e-177	7.22584e-177
35.5	2.19744e-188	2.29781e-177	2.29781e-177
35.6	6.50583e-189	7.30703e-178	7.30703e-178
35.7	1.92614e-189	2.32363e-178	2.32363e-178
35.8	5.70262e-190	2.32363e-178	2.32363e-178
35.9	1.68834e-190	2.34974e-179	2.34974e-179
36.0	4.99857e-191	7.47215e-180	7.47215e-180
36.1	1.47990e-191	2.37614e-180	2.37614e-180
36.2	4.38144e-192	7.55611e-181	7.55611e-181
36.3	1.29719e-192	7.55611e-181	7.55611e-181
36.4	3.84050e-193	7.64101e-182	7.64101e-182
36.5	1.13704e-193	2.42984e-182	2.42984e-182
36.6	3.36635e-194	7.72686e-183	7.72686e-183
36.7	9.96656e-195	2.45714e-183	2.45714e-183
36.8	2.95074e-195	2.45714e-183	2.45714e-183
36.9	8.73608e-196	2.48474e-184	2.48474e-184
37.0	2.58644e-196	7.90147e-185	7.90147e-185
37.1	7.65752e-197	2.51266e-185	2.51266e-185
37.2	2.26712e-197	7.99025e-186	7.99025e-186
37.3	6.71212e-198	7.99025e-186	7.99025e-186
37.4	1.98722e-198	8.08003e-187	8.08003e-187
37.5	5.88343e-199	2.56944e-187	2.56944e-187
37.6	1.74187e-199	8.17082e-188	8.17082e-188
37.7	5.15706e-200	2.59831e-188	2.59831e-188
37.8	1.52682e-200	2.59831e-188	2.59831e-188

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x	$A(x)$	P_{v1}	P_{v2}
37.9	4.52036e-201	2.62751e-189	2.62751e-189
38.0	1.33832e-201	8.35546e-190	8.35546e-190
38.1	3.96228e-202	2.65703e-190	2.65703e-190
38.2	1.17309e-202	8.44934e-191	8.44934e-191
38.3	3.47309e-203	8.44934e-191	8.44934e-191
38.4	1.02826e-203	8.44934e-191	8.44934e-191
38.5	3.04430e-204	2.71708e-192	2.71708e-192
38.6	9.01308e-205	8.64028e-193	8.64028e-193
38.7	2.66845e-205	2.74760e-193	2.74760e-193
38.8	7.90032e-206	2.74760e-193	2.74760e-193
38.9	2.33900e-206	2.74760e-193	2.74760e-193
39.0	6.92494e-207	8.83553e-195	8.83553e-195
39.1	2.05023e-207	2.80969e-195	2.80969e-195
39.2	6.06998e-208	8.93481e-196	8.93481e-196
39.3	1.79710e-208	8.93481e-196	8.93481e-196
39.4	5.32058e-209	8.93481e-196	8.93481e-196
39.5	1.57523e-209	2.87319e-197	2.87319e-197
39.6	4.66369e-210	9.13672e-198	9.13672e-198
39.7	1.38075e-210	2.90547e-198	2.90547e-198
39.8	4.08791e-211	2.90547e-198	2.90547e-198
39.9	1.21028e-211	2.90547e-198	2.90547e-198
40.0	3.58321e-212	9.34319e-200	9.34319e-200
40.1	1.06086e-212	2.97113e-200	2.97113e-200
40.2	3.14083e-213	9.44817e-201	9.44817e-201
40.3	9.29886e-214	9.44817e-201	9.44817e-201
40.4	2.75306e-214	9.44817e-201	9.44817e-201
40.5	8.15082e-215	3.03827e-202	3.03827e-202
40.6	2.41316e-215	9.66168e-203	9.66168e-203
40.7	7.14451e-216	3.07241e-203	3.07241e-203
40.8	2.11523e-216	3.07241e-203	3.07241e-203
40.9	6.26245e-217	3.07241e-203	3.07241e-203
41.0	1.85408e-217	9.88001e-205	9.88001e-205
41.1	5.48928e-218	3.14184e-205	3.14184e-205
41.2	1.62518e-218	9.99103e-206	9.99103e-206
41.3	4.81157e-219	9.99103e-206	9.99103e-206
41.4	1.42453e-219	9.99103e-206	9.99103e-206
41.5	4.21753e-220	3.21284e-207	3.21284e-207
41.6	1.24866e-220	1.02168e-207	1.02168e-207
41.7	3.69683e-221	3.24894e-208	3.24894e-208
41.8	1.09450e-221	3.24894e-208	3.24894e-208

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x	$A(x)$	P_{v1}	P_{v2}
41.9	3.24042e-222	3.24894e-208	3.24894e-208
42.0	9.59371e-223	1.04477e-209	1.04477e-209
42.1	2.84035e-223	3.32236e-210	3.32236e-210
42.2	8.40926e-224	1.05651e-210	1.05651e-210
42.3	2.48968e-224	1.05651e-210	1.05651e-210
42.4	7.37105e-225	1.05651e-210	1.05651e-210
42.5	2.18230e-225	3.39743e-212	3.39743e-212
42.6	6.46101e-226	1.08038e-212	1.08038e-212
42.7	1.91287e-226	3.43561e-213	3.43561e-213
42.8	5.66333e-227	3.43561e-213	3.43561e-213
42.9	1.67671e-227	3.43561e-213	3.43561e-213
43.0	4.96413e-228	1.10480e-214	1.10480e-214
43.1	1.46970e-228	3.51325e-215	3.51325e-215
43.2	4.35126e-229	1.11721e-215	1.11721e-215
43.3	1.28825e-229	1.11721e-215	1.11721e-215
43.4	3.81405e-230	1.11721e-215	1.11721e-215
43.5	1.12920e-230	3.59264e-217	3.59264e-217
43.6	3.34316e-231	1.14246e-217	1.14246e-217
43.7	9.89790e-232	3.63301e-218	3.63301e-218
43.8	2.93041e-232	3.63301e-218	3.63301e-218
43.9	8.67590e-233	3.63301e-218	3.63301e-218
44.0	2.56862e-233	1.16827e-219	1.16827e-219
44.1	7.60476e-234	3.71510e-220	3.71510e-220
44.2	2.25150e-234	1.18140e-220	1.18140e-220
44.3	6.66587e-235	1.18140e-220	1.18140e-220
44.4	1.97353e-235	1.18140e-220	1.18140e-220
44.5	5.84290e-236	3.79906e-222	3.79906e-222
44.6	1.72987e-236	1.20810e-222	1.20810e-222
44.7	5.12153e-237	3.84174e-223	3.84174e-223
44.8	1.51630e-237	3.84174e-223	3.84174e-223
44.9	4.48922e-238	3.84174e-223	3.84174e-223
45.0	1.32910e-238	1.23540e-224	1.23540e-224
45.1	3.93498e-239	3.92856e-225	3.92856e-225
45.2	1.16501e-239	1.24928e-225	1.24928e-225
45.3	3.44916e-240	1.24928e-225	1.24928e-225
45.4	1.02117e-240	1.24928e-225	1.24928e-225
45.5	3.02333e-241	4.01734e-227	4.01734e-227
45.6	8.95099e-242	1.27751e-227	1.27751e-227
45.7	2.65007e-242	4.06248e-228	4.06248e-228
45.8	7.84589e-243	4.06248e-228	4.06248e-228

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x	$A(x)$	P_{v1}	P_{v2}
45.9	2.32289e-243	4.06248e-228	4.06248e-228
46.0	6.87723e-244	1.30638e-229	1.30638e-229
46.1	2.03610e-244	4.15428e-230	4.15428e-230
46.2	6.02816e-245	1.32106e-230	1.32106e-230
46.3	1.78472e-245	1.32106e-230	1.32106e-230
46.4	5.28392e-246	1.32106e-230	1.32106e-230
46.5	1.56438e-246	4.24816e-232	4.24816e-232
46.6	4.63157e-247	1.35091e-232	1.35091e-232
46.7	1.37124e-247	4.29589e-233	4.29589e-233
46.8	4.05975e-248	4.29589e-233	4.29589e-233
46.9	1.20195e-248	4.29589e-233	4.29589e-233
47.0	3.55853e-249	1.38144e-234	1.38144e-234
47.1	1.05355e-249	4.39297e-235	4.39297e-235
47.2	3.11919e-250	1.39696e-235	1.39696e-235
47.3	9.23480e-251	1.39696e-235	1.39696e-235
47.4	2.73409e-251	1.39696e-235	1.39696e-235
47.5	8.09467e-252	4.49224e-237	4.49224e-237
47.6	2.39654e-252	1.42853e-237	1.42853e-237
47.7	7.09529e-253	4.54272e-238	4.54272e-238
47.8	2.10066e-253	4.54272e-238	4.54272e-238
47.9	6.21930e-254	4.54272e-238	4.54272e-238
48.0	1.84131e-254	1.46081e-239	1.46081e-239
48.1	5.45146e-255	4.64537e-240	4.64537e-240
48.2	1.61398e-255	1.47723e-240	1.47723e-240
48.3	4.77842e-256	1.47723e-240	1.47723e-240
48.4	1.41472e-256	1.47723e-240	1.47723e-240
48.5	4.18847e-257	4.75035e-242	4.75035e-242
48.6	1.24006e-257	1.51061e-242	1.51061e-242
48.7	3.67136e-258	4.80372e-243	4.80372e-243
48.8	1.08696e-258	4.80372e-243	4.80372e-243
48.9	3.21809e-259	4.80372e-243	4.80372e-243
49.0	9.52761e-260	1.54474e-244	1.54474e-244
49.1	2.82078e-260	4.91228e-245	4.91228e-245
49.2	8.35133e-261	1.56210e-245	1.56210e-245
49.3	2.47253e-261	1.56210e-245	1.56210e-245
49.4	7.32027e-262	1.56210e-245	1.56210e-245
49.5	2.16727e-262	5.02328e-247	5.02328e-247
49.6	6.41650e-263	1.59740e-247	1.59740e-247
49.7	1.89970e-263	5.07973e-248	5.07973e-248
49.8	5.62432e-264	5.07973e-248	5.07973e-248

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x	$A(x)$	P_{v1}	P_{v2}
49.9	1.66516e-264	5.07973e-248	5.07973e-248
50.0	4.92993e-265	1.63350e-249	1.63350e-249
50.1	1.45958e-265	5.19452e-250	5.19452e-250
50.2	4.32128e-266	1.65185e-250	1.65185e-250
50.3	1.27938e-266	1.65185e-250	1.65185e-250
50.4	3.78777e-267	1.65185e-250	1.65185e-250
50.5	1.12142e-267	5.31190e-252	5.31190e-252
50.6	3.32013e-268	1.68918e-252	1.68918e-252
50.7	9.82971e-269	5.37159e-253	5.37159e-253
50.8	2.91022e-269	5.37159e-253	5.37159e-253
50.9	8.61613e-270	5.37159e-253	5.37159e-253
51.0	2.55093e-270	1.72735e-254	1.72735e-254
51.1	7.55237e-271	5.49297e-255	5.49297e-255
51.2	2.23599e-271	1.74676e-255	1.74676e-255
51.3	6.61995e-272	1.74676e-255	1.74676e-255
51.4	1.95993e-272	1.74676e-255	1.74676e-255
51.5	5.80265e-273	5.61711e-257	5.61711e-257
51.6	1.71796e-273	1.78624e-257	1.78624e-257
51.7	5.08625e-274	5.68022e-258	5.68022e-258
51.8	1.50586e-274	5.68022e-258	5.68022e-258
51.9	4.45830e-275	5.68022e-258	5.68022e-258
52.0	1.31994e-275	1.82660e-259	1.82660e-259
52.1	3.90787e-276	5.80858e-260	5.80858e-260
52.2	1.15698e-276	1.84712e-260	1.84712e-260
52.3	3.42540e-277	1.84712e-260	1.84712e-260
52.4	1.01414e-277	1.84712e-260	1.84712e-260
52.5	3.00250e-278	5.93984e-262	5.93984e-262
52.6	8.88932e-279	1.88887e-262	1.88887e-262
52.7	2.63181e-279	6.00658e-263	6.00658e-263
52.8	7.79184e-280	6.00658e-263	6.00658e-263
52.9	2.30688e-280	6.00658e-263	6.00658e-263
53.0	6.82985e-281	1.93155e-264	1.93155e-264
53.1	2.02207e-281	6.14232e-265	6.14232e-265
53.2	5.98664e-282	1.95325e-265	1.95325e-265
53.3	1.77243e-282	1.95325e-265	1.95325e-265
53.4	5.24752e-283	1.95325e-265	1.95325e-265
53.5	1.55360e-283	6.28112e-267	6.28112e-267
53.6	4.59966e-284	1.99739e-267	1.99739e-267
53.7	1.36179e-284	6.35170e-268	6.35170e-268
53.8	4.03178e-285	6.35170e-268	6.35170e-268

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x	$A(x)$	P_{v1}	P_{v2}
53.9	1.19367e-285	6.35170e-268	6.35170e-268
54.0	3.53401e-286	2.04253e-269	2.04253e-269
54.1	1.04629e-286	6.49523e-270	6.49523e-270
54.2	3.09770e-287	2.06548e-270	2.06548e-270
54.3	9.17118e-288	2.06548e-270	2.06548e-270
54.4	2.71526e-288	2.06548e-270	2.06548e-270
54.5	8.03890e-289	6.64201e-272	6.64201e-272
54.6	2.38003e-289	2.11216e-272	2.11216e-272
54.7	7.04641e-290	6.71664e-273	6.71664e-273
54.8	2.08619e-290	6.71664e-273	6.71664e-273
54.9	6.17646e-291	6.71664e-273	6.71664e-273
55.0	1.82863e-291	2.15989e-274	2.15989e-274
55.1	5.41391e-292	6.86842e-275	6.86842e-275
55.2	1.60286e-292	2.18415e-275	2.18415e-275
55.3	4.74550e-293	2.18415e-275	2.18415e-275
55.4	1.40497e-293	2.18415e-275	2.18415e-275
55.5	4.15962e-294	7.02364e-277	7.02364e-277
55.6	1.23151e-294	2.23351e-277	2.23351e-277
55.7	3.64607e-295	7.10255e-278	7.10255e-278
55.8	1.07947e-295	7.10255e-278	7.10255e-278
55.9	3.19592e-296	7.10255e-278	7.10255e-278
56.0	9.46198e-297	2.28399e-279	2.28399e-279
56.1	2.80135e-297	7.26306e-280	7.26306e-280
56.2	8.29379e-298	2.30965e-280	2.30965e-280
56.3	2.45549e-298	2.30965e-280	2.30965e-280
56.4	7.26984e-299	2.30965e-280	2.30965e-280
56.5	2.15234e-299	7.42719e-282	7.42719e-282
56.6	6.37230e-300	2.36184e-282	2.36184e-282
56.7	1.88661e-300	7.51064e-283	7.51064e-283
56.8	5.58557e-301	7.51064e-283	7.51064e-283
56.9	1.65369e-301	7.51064e-283	7.51064e-283
57.0	4.89597e-302	2.41521e-284	2.41521e-284
57.1	1.44952e-302	7.68037e-285	7.68037e-285
57.2	4.29151e-303	2.44235e-285	2.44235e-285
57.3	1.27056e-303	2.44235e-285	2.44235e-285
57.4	3.76168e-304	2.44235e-285	2.44235e-285
57.5	1.11370e-304	7.85393e-287	7.85393e-287
57.6	3.29726e-305	2.49754e-287	2.49754e-287
57.7	9.76199e-306	7.94217e-288	7.94217e-288
57.8	2.89018e-306	7.94217e-288	7.94217e-288

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x	$A(x)$	P_{v1}	P_{v2}
57.9	8.55677e-307	7.94217e-288	7.94217e-288
58.0	2.53335e-307	2.55398e-289	2.55398e-289
58.1	7.50035e-308	8.12165e-290	8.12165e-290
58.2	2.22058e-308	2.58268e-290	2.58268e-290
58.3	6.57435e-309	2.58268e-290	2.58268e-290
58.4	1.94643e-309	2.58268e-290	2.58268e-290
58.5	5.76267e-310	8.30518e-292	8.30518e-292
58.6	1.70612e-310	2.64104e-292	2.64104e-292
58.7	5.05121e-311	8.39850e-293	8.39850e-293
58.8	1.49548e-311	8.39850e-293	8.39850e-293
58.9	4.42758e-312	8.39850e-293	8.39850e-293
59.0	1.31085e-312	2.70073e-294	2.70073e-294
59.1	3.88095e-313	8.58829e-295	8.58829e-295
59.2	1.14901e-313	2.73107e-295	2.73107e-295
59.3	3.40181e-314	2.73107e-295	2.73107e-295
59.4	1.00715e-314	2.73107e-295	2.73107e-295
59.5	2.98182e-315	8.78237e-297	8.78237e-297
59.6	8.82808e-316	2.79279e-297	2.79279e-297
59.7	2.61368e-316	8.88105e-298	8.88105e-298
59.8	7.73816e-317	8.88105e-298	8.88105e-298
59.9	2.29099e-317	8.88105e-298	8.88105e-298
60.0	6.78280e-318	2.85590e-299	2.85590e-299
60.1	2.00814e-318	9.08174e-300	9.08174e-300
60.2	5.94539e-319	2.88799e-300	2.88799e-300
60.3	1.76021e-319	2.88799e-300	2.88799e-300
60.4	5.21140e-320	2.88799e-300	2.88799e-300
60.5	1.54297e-320	9.00000e-302	9.00000e-302
60.6	4.57011e-321	2.00000e-302	2.00000e-302
60.7	1.35374e-321	9.00000e-303	9.00000e-303
60.8	4.00193e-322	9.00000e-303	9.00000e-303
60.9	1.18576e-322	9.00000e-303	9.00000e-303
61.0	3.45846e-323	3.00000e-304	3.00000e-304
61.1	9.88131e-324	9.00000e-305	9.00000e-305
61.2	4.94066e-324	3.00000e-305	3.00000e-305
61.3	0.00000e+00	3.00000e-305	3.00000e-305
61.4	0.00000e+00	3.00000e-305	3.00000e-305
61.5	0.00000e+00	9.00000e-307	9.00000e-307
61.6	0.00000e+00	3.00000e-307	3.00000e-307
61.7	0.00000e+00	1.00000e-307	1.00000e-307
61.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
61.9	0.00000e+00	1.00000e-307	1.00000e-307
62.0	0.00000e+00	1.00000e-307	1.00000e-307
62.1	0.00000e+00	1.00000e-307	1.00000e-307
62.2	0.00000e+00	1.00000e-307	1.00000e-307
62.3	0.00000e+00	1.00000e-307	1.00000e-307
62.4	0.00000e+00	1.00000e-307	1.00000e-307
62.5	0.00000e+00	1.00000e-307	1.00000e-307
62.6	0.00000e+00	1.00000e-307	1.00000e-307
62.7	0.00000e+00	1.00000e-307	1.00000e-307
62.8	0.00000e+00	1.00000e-307	1.00000e-307
62.9	0.00000e+00	1.00000e-307	1.00000e-307
63.0	0.00000e+00	1.00000e-307	1.00000e-307
63.1	0.00000e+00	1.00000e-307	1.00000e-307
63.2	0.00000e+00	1.00000e-307	1.00000e-307
63.3	0.00000e+00	1.00000e-307	1.00000e-307
63.4	0.00000e+00	1.00000e-307	1.00000e-307
63.5	0.00000e+00	1.00000e-307	1.00000e-307
63.6	0.00000e+00	1.00000e-307	1.00000e-307
63.7	0.00000e+00	1.00000e-307	1.00000e-307
63.8	0.00000e+00	1.00000e-307	1.00000e-307
63.9	0.00000e+00	1.00000e-307	1.00000e-307
64.0	0.00000e+00	1.00000e-307	1.00000e-307
64.1	0.00000e+00	1.00000e-307	1.00000e-307
64.2	0.00000e+00	1.00000e-307	1.00000e-307
64.3	0.00000e+00	1.00000e-307	1.00000e-307
64.4	0.00000e+00	1.00000e-307	1.00000e-307
64.5	0.00000e+00	1.00000e-307	1.00000e-307
64.6	0.00000e+00	1.00000e-307	1.00000e-307
64.7	0.00000e+00	1.00000e-307	1.00000e-307
64.8	0.00000e+00	1.00000e-307	1.00000e-307
64.9	0.00000e+00	1.00000e-307	1.00000e-307
65.0	0.00000e+00	1.00000e-307	1.00000e-307
65.1	0.00000e+00	1.00000e-307	1.00000e-307
65.2	0.00000e+00	1.00000e-307	1.00000e-307
65.3	0.00000e+00	1.00000e-307	1.00000e-307
65.4	0.00000e+00	1.00000e-307	1.00000e-307
65.5	0.00000e+00	1.00000e-307	1.00000e-307
65.6	0.00000e+00	1.00000e-307	1.00000e-307
65.7	0.00000e+00	1.00000e-307	1.00000e-307
65.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
65.9	0.00000e+00	1.00000e-307	1.00000e-307
66.0	0.00000e+00	1.00000e-307	1.00000e-307
66.1	0.00000e+00	1.00000e-307	1.00000e-307
66.2	0.00000e+00	1.00000e-307	1.00000e-307
66.3	0.00000e+00	1.00000e-307	1.00000e-307
66.4	0.00000e+00	1.00000e-307	1.00000e-307
66.5	0.00000e+00	1.00000e-307	1.00000e-307
66.6	0.00000e+00	1.00000e-307	1.00000e-307
66.7	0.00000e+00	1.00000e-307	1.00000e-307
66.8	0.00000e+00	1.00000e-307	1.00000e-307
66.9	0.00000e+00	1.00000e-307	1.00000e-307
67.0	0.00000e+00	1.00000e-307	1.00000e-307
67.1	0.00000e+00	1.00000e-307	1.00000e-307
67.2	0.00000e+00	1.00000e-307	1.00000e-307
67.3	0.00000e+00	1.00000e-307	1.00000e-307
67.4	0.00000e+00	1.00000e-307	1.00000e-307
67.5	0.00000e+00	1.00000e-307	1.00000e-307
67.6	0.00000e+00	1.00000e-307	1.00000e-307
67.7	0.00000e+00	1.00000e-307	1.00000e-307
67.8	0.00000e+00	1.00000e-307	1.00000e-307
67.9	0.00000e+00	1.00000e-307	1.00000e-307
68.0	0.00000e+00	1.00000e-307	1.00000e-307
68.1	0.00000e+00	1.00000e-307	1.00000e-307
68.2	0.00000e+00	1.00000e-307	1.00000e-307
68.3	0.00000e+00	1.00000e-307	1.00000e-307
68.4	0.00000e+00	1.00000e-307	1.00000e-307
68.5	0.00000e+00	1.00000e-307	1.00000e-307
68.6	0.00000e+00	1.00000e-307	1.00000e-307
68.7	0.00000e+00	1.00000e-307	1.00000e-307
68.8	0.00000e+00	1.00000e-307	1.00000e-307
68.9	0.00000e+00	1.00000e-307	1.00000e-307
69.0	0.00000e+00	1.00000e-307	1.00000e-307
69.1	0.00000e+00	1.00000e-307	1.00000e-307
69.2	0.00000e+00	1.00000e-307	1.00000e-307
69.3	0.00000e+00	1.00000e-307	1.00000e-307
69.4	0.00000e+00	1.00000e-307	1.00000e-307
69.5	0.00000e+00	1.00000e-307	1.00000e-307
69.6	0.00000e+00	1.00000e-307	1.00000e-307
69.7	0.00000e+00	1.00000e-307	1.00000e-307
69.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
69.9	0.00000e+00	1.00000e-307	1.00000e-307
70.0	0.00000e+00	1.00000e-307	1.00000e-307
70.1	0.00000e+00	1.00000e-307	1.00000e-307
70.2	0.00000e+00	1.00000e-307	1.00000e-307
70.3	0.00000e+00	1.00000e-307	1.00000e-307
70.4	0.00000e+00	1.00000e-307	1.00000e-307
70.5	0.00000e+00	1.00000e-307	1.00000e-307
70.6	0.00000e+00	1.00000e-307	1.00000e-307
70.7	0.00000e+00	1.00000e-307	1.00000e-307
70.8	0.00000e+00	1.00000e-307	1.00000e-307
70.9	0.00000e+00	1.00000e-307	1.00000e-307
71.0	0.00000e+00	1.00000e-307	1.00000e-307
71.1	0.00000e+00	1.00000e-307	1.00000e-307
71.2	0.00000e+00	1.00000e-307	1.00000e-307
71.3	0.00000e+00	1.00000e-307	1.00000e-307
71.4	0.00000e+00	1.00000e-307	1.00000e-307
71.5	0.00000e+00	1.00000e-307	1.00000e-307
71.6	0.00000e+00	1.00000e-307	1.00000e-307
71.7	0.00000e+00	1.00000e-307	1.00000e-307
71.8	0.00000e+00	1.00000e-307	1.00000e-307
71.9	0.00000e+00	1.00000e-307	1.00000e-307
72.0	0.00000e+00	1.00000e-307	1.00000e-307
72.1	0.00000e+00	1.00000e-307	1.00000e-307
72.2	0.00000e+00	1.00000e-307	1.00000e-307
72.3	0.00000e+00	1.00000e-307	1.00000e-307
72.4	0.00000e+00	1.00000e-307	1.00000e-307
72.5	0.00000e+00	1.00000e-307	1.00000e-307
72.6	0.00000e+00	1.00000e-307	1.00000e-307
72.7	0.00000e+00	1.00000e-307	1.00000e-307
72.8	0.00000e+00	1.00000e-307	1.00000e-307
72.9	0.00000e+00	1.00000e-307	1.00000e-307
73.0	0.00000e+00	1.00000e-307	1.00000e-307
73.1	0.00000e+00	1.00000e-307	1.00000e-307
73.2	0.00000e+00	1.00000e-307	1.00000e-307
73.3	0.00000e+00	1.00000e-307	1.00000e-307
73.4	0.00000e+00	1.00000e-307	1.00000e-307
73.5	0.00000e+00	1.00000e-307	1.00000e-307
73.6	0.00000e+00	1.00000e-307	1.00000e-307
73.7	0.00000e+00	1.00000e-307	1.00000e-307
73.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
73.9	0.00000e+00	1.00000e-307	1.00000e-307
74.0	0.00000e+00	1.00000e-307	1.00000e-307
74.1	0.00000e+00	1.00000e-307	1.00000e-307
74.2	0.00000e+00	1.00000e-307	1.00000e-307
74.3	0.00000e+00	1.00000e-307	1.00000e-307
74.4	0.00000e+00	1.00000e-307	1.00000e-307
74.5	0.00000e+00	1.00000e-307	1.00000e-307
74.6	0.00000e+00	1.00000e-307	1.00000e-307
74.7	0.00000e+00	1.00000e-307	1.00000e-307
74.8	0.00000e+00	1.00000e-307	1.00000e-307
74.9	0.00000e+00	1.00000e-307	1.00000e-307
75.0	0.00000e+00	1.00000e-307	1.00000e-307
75.1	0.00000e+00	1.00000e-307	1.00000e-307
75.2	0.00000e+00	1.00000e-307	1.00000e-307
75.3	0.00000e+00	1.00000e-307	1.00000e-307
75.4	0.00000e+00	1.00000e-307	1.00000e-307
75.5	0.00000e+00	1.00000e-307	1.00000e-307
75.6	0.00000e+00	1.00000e-307	1.00000e-307
75.7	0.00000e+00	1.00000e-307	1.00000e-307
75.8	0.00000e+00	1.00000e-307	1.00000e-307
75.9	0.00000e+00	1.00000e-307	1.00000e-307
76.0	0.00000e+00	1.00000e-307	1.00000e-307
76.1	0.00000e+00	1.00000e-307	1.00000e-307
76.2	0.00000e+00	1.00000e-307	1.00000e-307
76.3	0.00000e+00	1.00000e-307	1.00000e-307
76.4	0.00000e+00	1.00000e-307	1.00000e-307
76.5	0.00000e+00	1.00000e-307	1.00000e-307
76.6	0.00000e+00	1.00000e-307	1.00000e-307
76.7	0.00000e+00	1.00000e-307	1.00000e-307
76.8	0.00000e+00	1.00000e-307	1.00000e-307
76.9	0.00000e+00	1.00000e-307	1.00000e-307
77.0	0.00000e+00	1.00000e-307	1.00000e-307
77.1	0.00000e+00	1.00000e-307	1.00000e-307
77.2	0.00000e+00	1.00000e-307	1.00000e-307
77.3	0.00000e+00	1.00000e-307	1.00000e-307
77.4	0.00000e+00	1.00000e-307	1.00000e-307
77.5	0.00000e+00	1.00000e-307	1.00000e-307
77.6	0.00000e+00	1.00000e-307	1.00000e-307
77.7	0.00000e+00	1.00000e-307	1.00000e-307
77.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
77.9	0.00000e+00	1.00000e-307	1.00000e-307
78.0	0.00000e+00	1.00000e-307	1.00000e-307
78.1	0.00000e+00	1.00000e-307	1.00000e-307
78.2	0.00000e+00	1.00000e-307	1.00000e-307
78.3	0.00000e+00	1.00000e-307	1.00000e-307
78.4	0.00000e+00	1.00000e-307	1.00000e-307
78.5	0.00000e+00	1.00000e-307	1.00000e-307
78.6	0.00000e+00	1.00000e-307	1.00000e-307
78.7	0.00000e+00	1.00000e-307	1.00000e-307
78.8	0.00000e+00	1.00000e-307	1.00000e-307
78.9	0.00000e+00	1.00000e-307	1.00000e-307
79.0	0.00000e+00	1.00000e-307	1.00000e-307
79.1	0.00000e+00	1.00000e-307	1.00000e-307
79.2	0.00000e+00	1.00000e-307	1.00000e-307
79.3	0.00000e+00	1.00000e-307	1.00000e-307
79.4	0.00000e+00	1.00000e-307	1.00000e-307
79.5	0.00000e+00	1.00000e-307	1.00000e-307
79.6	0.00000e+00	1.00000e-307	1.00000e-307
79.7	0.00000e+00	1.00000e-307	1.00000e-307
79.8	0.00000e+00	1.00000e-307	1.00000e-307
79.9	0.00000e+00	1.00000e-307	1.00000e-307
80.0	0.00000e+00	1.00000e-307	1.00000e-307
80.1	0.00000e+00	1.00000e-307	1.00000e-307
80.2	0.00000e+00	1.00000e-307	1.00000e-307
80.3	0.00000e+00	1.00000e-307	1.00000e-307
80.4	0.00000e+00	1.00000e-307	1.00000e-307
80.5	0.00000e+00	1.00000e-307	1.00000e-307
80.6	0.00000e+00	1.00000e-307	1.00000e-307
80.7	0.00000e+00	1.00000e-307	1.00000e-307
80.8	0.00000e+00	1.00000e-307	1.00000e-307
80.9	0.00000e+00	1.00000e-307	1.00000e-307
81.0	0.00000e+00	1.00000e-307	1.00000e-307
81.1	0.00000e+00	1.00000e-307	1.00000e-307
81.2	0.00000e+00	1.00000e-307	1.00000e-307
81.3	0.00000e+00	1.00000e-307	1.00000e-307
81.4	0.00000e+00	1.00000e-307	1.00000e-307
81.5	0.00000e+00	1.00000e-307	1.00000e-307
81.6	0.00000e+00	1.00000e-307	1.00000e-307
81.7	0.00000e+00	1.00000e-307	1.00000e-307
81.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
81.9	0.00000e+00	1.00000e-307	1.00000e-307
82.0	0.00000e+00	1.00000e-307	1.00000e-307
82.1	0.00000e+00	1.00000e-307	1.00000e-307
82.2	0.00000e+00	1.00000e-307	1.00000e-307
82.3	0.00000e+00	1.00000e-307	1.00000e-307
82.4	0.00000e+00	1.00000e-307	1.00000e-307
82.5	0.00000e+00	1.00000e-307	1.00000e-307
82.6	0.00000e+00	1.00000e-307	1.00000e-307
82.7	0.00000e+00	1.00000e-307	1.00000e-307
82.8	0.00000e+00	1.00000e-307	1.00000e-307
82.9	0.00000e+00	1.00000e-307	1.00000e-307
83.0	0.00000e+00	1.00000e-307	1.00000e-307
83.1	0.00000e+00	1.00000e-307	1.00000e-307
83.2	0.00000e+00	1.00000e-307	1.00000e-307
83.3	0.00000e+00	1.00000e-307	1.00000e-307
83.4	0.00000e+00	1.00000e-307	1.00000e-307
83.5	0.00000e+00	1.00000e-307	1.00000e-307
83.6	0.00000e+00	1.00000e-307	1.00000e-307
83.7	0.00000e+00	1.00000e-307	1.00000e-307
83.8	0.00000e+00	1.00000e-307	1.00000e-307
83.9	0.00000e+00	1.00000e-307	1.00000e-307
84.0	0.00000e+00	1.00000e-307	1.00000e-307
84.1	0.00000e+00	1.00000e-307	1.00000e-307
84.2	0.00000e+00	1.00000e-307	1.00000e-307
84.3	0.00000e+00	1.00000e-307	1.00000e-307
84.4	0.00000e+00	1.00000e-307	1.00000e-307
84.5	0.00000e+00	1.00000e-307	1.00000e-307
84.6	0.00000e+00	1.00000e-307	1.00000e-307
84.7	0.00000e+00	1.00000e-307	1.00000e-307
84.8	0.00000e+00	1.00000e-307	1.00000e-307
84.9	0.00000e+00	1.00000e-307	1.00000e-307
85.0	0.00000e+00	1.00000e-307	1.00000e-307
85.1	0.00000e+00	1.00000e-307	1.00000e-307
85.2	0.00000e+00	1.00000e-307	1.00000e-307
85.3	0.00000e+00	1.00000e-307	1.00000e-307
85.4	0.00000e+00	1.00000e-307	1.00000e-307
85.5	0.00000e+00	1.00000e-307	1.00000e-307
85.6	0.00000e+00	1.00000e-307	1.00000e-307
85.7	0.00000e+00	1.00000e-307	1.00000e-307
85.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
85.9	0.00000e+00	1.00000e-307	1.00000e-307
86.0	0.00000e+00	1.00000e-307	1.00000e-307
86.1	0.00000e+00	1.00000e-307	1.00000e-307
86.2	0.00000e+00	1.00000e-307	1.00000e-307
86.3	0.00000e+00	1.00000e-307	1.00000e-307
86.4	0.00000e+00	1.00000e-307	1.00000e-307
86.5	0.00000e+00	1.00000e-307	1.00000e-307
86.6	0.00000e+00	1.00000e-307	1.00000e-307
86.7	0.00000e+00	1.00000e-307	1.00000e-307
86.8	0.00000e+00	1.00000e-307	1.00000e-307
86.9	0.00000e+00	1.00000e-307	1.00000e-307
87.0	0.00000e+00	1.00000e-307	1.00000e-307
87.1	0.00000e+00	1.00000e-307	1.00000e-307
87.2	0.00000e+00	1.00000e-307	1.00000e-307
87.3	0.00000e+00	1.00000e-307	1.00000e-307
87.4	0.00000e+00	1.00000e-307	1.00000e-307
87.5	0.00000e+00	1.00000e-307	1.00000e-307
87.6	0.00000e+00	1.00000e-307	1.00000e-307
87.7	0.00000e+00	1.00000e-307	1.00000e-307
87.8	0.00000e+00	1.00000e-307	1.00000e-307
87.9	0.00000e+00	1.00000e-307	1.00000e-307
88.0	0.00000e+00	1.00000e-307	1.00000e-307
88.1	0.00000e+00	1.00000e-307	1.00000e-307
88.2	0.00000e+00	1.00000e-307	1.00000e-307
88.3	0.00000e+00	1.00000e-307	1.00000e-307
88.4	0.00000e+00	1.00000e-307	1.00000e-307
88.5	0.00000e+00	1.00000e-307	1.00000e-307
88.6	0.00000e+00	1.00000e-307	1.00000e-307
88.7	0.00000e+00	1.00000e-307	1.00000e-307
88.8	0.00000e+00	1.00000e-307	1.00000e-307
88.9	0.00000e+00	1.00000e-307	1.00000e-307
89.0	0.00000e+00	1.00000e-307	1.00000e-307
89.1	0.00000e+00	1.00000e-307	1.00000e-307
89.2	0.00000e+00	1.00000e-307	1.00000e-307
89.3	0.00000e+00	1.00000e-307	1.00000e-307
89.4	0.00000e+00	1.00000e-307	1.00000e-307
89.5	0.00000e+00	1.00000e-307	1.00000e-307
89.6	0.00000e+00	1.00000e-307	1.00000e-307
89.7	0.00000e+00	1.00000e-307	1.00000e-307
89.8	0.00000e+00	1.00000e-307	1.00000e-307

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
89.9	0.00000e+00	1.00000e-307	1.00000e-307
90.0	0.00000e+00	1.00000e-307	1.00000e-307
90.1	0.00000e+00	1.00000e-307	1.00000e-307
90.2	0.00000e+00	1.00000e-307	1.00000e-307
90.3	0.00000e+00	1.00000e-307	1.00000e-307
90.4	0.00000e+00	1.00000e-307	1.00000e-307
90.5	0.00000e+00	1.00000e-307	1.00000e-307
90.6	0.00000e+00	1.00000e-307	1.00000e-307
90.7	0.00000e+00	1.00000e-307	1.00000e-307
90.8	0.00000e+00	1.00000e-307	1.00000e-307
90.9	0.00000e+00	1.00000e-307	1.00000e-307
91.0	0.00000e+00	1.00000e-307	1.00000e-307
91.1	0.00000e+00	1.00000e-307	1.00000e-307
91.2	0.00000e+00	1.00000e-307	1.00000e-307
91.3	0.00000e+00	1.00000e-307	1.00000e-307
91.4	0.00000e+00	1.00000e-307	1.00000e-307
91.5	0.00000e+00	1.00000e-307	1.00000e-307
91.6	0.00000e+00	1.00000e-307	1.00000e-307
91.7	0.00000e+00	1.00000e-307	1.00000e-307
91.8	0.00000e+00	1.00000e-307	1.00000e-307
91.9	0.00000e+00	1.00000e-307	1.00000e-307
92.0	0.00000e+00	1.00000e-307	1.00000e-307
92.1	0.00000e+00	1.00000e-307	1.00000e-307
92.2	0.00000e+00	1.00000e-307	1.00000e-307
92.3	0.00000e+00	1.00000e-307	1.00000e-307
92.4	0.00000e+00	1.00000e-307	1.00000e-307
92.5	0.00000e+00	1.00000e-307	1.00000e-307
92.6	0.00000e+00	1.00000e-307	1.00000e-307
92.7	0.00000e+00	1.00000e-307	1.00000e-307
92.8	0.00000e+00	1.00000e-307	1.00000e-307
92.9	0.00000e+00	1.00000e-307	1.00000e-307
93.0	0.00000e+00	1.00000e-307	1.00000e-307
93.1	0.00000e+00	1.00000e-307	1.00000e-307
93.2	0.00000e+00	1.00000e-307	1.00000e-307
93.3	0.00000e+00	1.00000e-307	1.00000e-307
93.4	0.00000e+00	1.00000e-307	1.00000e-307
93.5	0.00000e+00	1.00000e-307	1.00000e-307
93.6	0.00000e+00	1.00000e-307	1.00000e-307
93.7	0.00000e+00	1.00000e-307	1.00000e-307
93.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
93.9	0.00000e+00	1.00000e-307	1.00000e-307
94.0	0.00000e+00	1.00000e-307	1.00000e-307
94.1	0.00000e+00	1.00000e-307	1.00000e-307
94.2	0.00000e+00	1.00000e-307	1.00000e-307
94.3	0.00000e+00	1.00000e-307	1.00000e-307
94.4	0.00000e+00	1.00000e-307	1.00000e-307
94.5	0.00000e+00	1.00000e-307	1.00000e-307
94.6	0.00000e+00	1.00000e-307	1.00000e-307
94.7	0.00000e+00	1.00000e-307	1.00000e-307
94.8	0.00000e+00	1.00000e-307	1.00000e-307
94.9	0.00000e+00	1.00000e-307	1.00000e-307
95.0	0.00000e+00	1.00000e-307	1.00000e-307
95.1	0.00000e+00	1.00000e-307	1.00000e-307
95.2	0.00000e+00	1.00000e-307	1.00000e-307
95.3	0.00000e+00	1.00000e-307	1.00000e-307
95.4	0.00000e+00	1.00000e-307	1.00000e-307
95.5	0.00000e+00	1.00000e-307	1.00000e-307
95.6	0.00000e+00	1.00000e-307	1.00000e-307
95.7	0.00000e+00	1.00000e-307	1.00000e-307
95.8	0.00000e+00	1.00000e-307	1.00000e-307
95.9	0.00000e+00	1.00000e-307	1.00000e-307
96.0	0.00000e+00	1.00000e-307	1.00000e-307
96.1	0.00000e+00	1.00000e-307	1.00000e-307
96.2	0.00000e+00	1.00000e-307	1.00000e-307
96.3	0.00000e+00	1.00000e-307	1.00000e-307
96.4	0.00000e+00	1.00000e-307	1.00000e-307
96.5	0.00000e+00	1.00000e-307	1.00000e-307
96.6	0.00000e+00	1.00000e-307	1.00000e-307
96.7	0.00000e+00	1.00000e-307	1.00000e-307
96.8	0.00000e+00	1.00000e-307	1.00000e-307
96.9	0.00000e+00	1.00000e-307	1.00000e-307
97.0	0.00000e+00	1.00000e-307	1.00000e-307
97.1	0.00000e+00	1.00000e-307	1.00000e-307
97.2	0.00000e+00	1.00000e-307	1.00000e-307
97.3	0.00000e+00	1.00000e-307	1.00000e-307
97.4	0.00000e+00	1.00000e-307	1.00000e-307
97.5	0.00000e+00	1.00000e-307	1.00000e-307
97.6	0.00000e+00	1.00000e-307	1.00000e-307
97.7	0.00000e+00	1.00000e-307	1.00000e-307
97.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
97.9	0.00000e+00	1.00000e-307	1.00000e-307
98.0	0.00000e+00	1.00000e-307	1.00000e-307
98.1	0.00000e+00	1.00000e-307	1.00000e-307
98.2	0.00000e+00	1.00000e-307	1.00000e-307
98.3	0.00000e+00	1.00000e-307	1.00000e-307
98.4	0.00000e+00	1.00000e-307	1.00000e-307
98.5	0.00000e+00	1.00000e-307	1.00000e-307
98.6	0.00000e+00	1.00000e-307	1.00000e-307
98.7	0.00000e+00	1.00000e-307	1.00000e-307
98.8	0.00000e+00	1.00000e-307	1.00000e-307
98.9	0.00000e+00	1.00000e-307	1.00000e-307
99.0	0.00000e+00	1.00000e-307	1.00000e-307
99.1	0.00000e+00	1.00000e-307	1.00000e-307
99.2	0.00000e+00	1.00000e-307	1.00000e-307
99.3	0.00000e+00	1.00000e-307	1.00000e-307
99.4	0.00000e+00	1.00000e-307	1.00000e-307
99.5	0.00000e+00	1.00000e-307	1.00000e-307
99.6	0.00000e+00	1.00000e-307	1.00000e-307
99.7	0.00000e+00	1.00000e-307	1.00000e-307
99.8	0.00000e+00	1.00000e-307	1.00000e-307
99.9	0.00000e+00	1.00000e-307	1.00000e-307
100.0	0.00000e+00	1.00000e-307	1.00000e-307
100.1	0.00000e+00	1.00000e-307	1.00000e-307
100.2	0.00000e+00	1.00000e-307	1.00000e-307
100.3	0.00000e+00	1.00000e-307	1.00000e-307
100.4	0.00000e+00	1.00000e-307	1.00000e-307
100.5	0.00000e+00	1.00000e-307	1.00000e-307
100.6	0.00000e+00	1.00000e-307	1.00000e-307
100.7	0.00000e+00	1.00000e-307	1.00000e-307
100.8	0.00000e+00	1.00000e-307	1.00000e-307
100.9	0.00000e+00	1.00000e-307	1.00000e-307
101.0	0.00000e+00	1.00000e-307	1.00000e-307
101.1	0.00000e+00	1.00000e-307	1.00000e-307
101.2	0.00000e+00	1.00000e-307	1.00000e-307
101.3	0.00000e+00	1.00000e-307	1.00000e-307
101.4	0.00000e+00	1.00000e-307	1.00000e-307
101.5	0.00000e+00	1.00000e-307	1.00000e-307
101.6	0.00000e+00	1.00000e-307	1.00000e-307
101.7	0.00000e+00	1.00000e-307	1.00000e-307
101.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
101.9	0.00000e+00	1.00000e-307	1.00000e-307
102.0	0.00000e+00	1.00000e-307	1.00000e-307
102.1	0.00000e+00	1.00000e-307	1.00000e-307
102.2	0.00000e+00	1.00000e-307	1.00000e-307
102.3	0.00000e+00	1.00000e-307	1.00000e-307
102.4	0.00000e+00	1.00000e-307	1.00000e-307
102.5	0.00000e+00	1.00000e-307	1.00000e-307
102.6	0.00000e+00	1.00000e-307	1.00000e-307
102.7	0.00000e+00	1.00000e-307	1.00000e-307
102.8	0.00000e+00	1.00000e-307	1.00000e-307
102.9	0.00000e+00	1.00000e-307	1.00000e-307
103.0	0.00000e+00	1.00000e-307	1.00000e-307
103.1	0.00000e+00	1.00000e-307	1.00000e-307
103.2	0.00000e+00	1.00000e-307	1.00000e-307
103.3	0.00000e+00	1.00000e-307	1.00000e-307
103.4	0.00000e+00	1.00000e-307	1.00000e-307
103.5	0.00000e+00	1.00000e-307	1.00000e-307
103.6	0.00000e+00	1.00000e-307	1.00000e-307
103.7	0.00000e+00	1.00000e-307	1.00000e-307
103.8	0.00000e+00	1.00000e-307	1.00000e-307
103.9	0.00000e+00	1.00000e-307	1.00000e-307
104.0	0.00000e+00	1.00000e-307	1.00000e-307
104.1	0.00000e+00	1.00000e-307	1.00000e-307
104.2	0.00000e+00	1.00000e-307	1.00000e-307
104.3	0.00000e+00	1.00000e-307	1.00000e-307
104.4	0.00000e+00	1.00000e-307	1.00000e-307
104.5	0.00000e+00	1.00000e-307	1.00000e-307
104.6	0.00000e+00	1.00000e-307	1.00000e-307
104.7	0.00000e+00	1.00000e-307	1.00000e-307
104.8	0.00000e+00	1.00000e-307	1.00000e-307
104.9	0.00000e+00	1.00000e-307	1.00000e-307
105.0	0.00000e+00	1.00000e-307	1.00000e-307
105.1	0.00000e+00	1.00000e-307	1.00000e-307
105.2	0.00000e+00	1.00000e-307	1.00000e-307
105.3	0.00000e+00	1.00000e-307	1.00000e-307
105.4	0.00000e+00	1.00000e-307	1.00000e-307
105.5	0.00000e+00	1.00000e-307	1.00000e-307
105.6	0.00000e+00	1.00000e-307	1.00000e-307
105.7	0.00000e+00	1.00000e-307	1.00000e-307
105.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
105.9	0.00000e+00	1.00000e-307	1.00000e-307
106.0	0.00000e+00	1.00000e-307	1.00000e-307
106.1	0.00000e+00	1.00000e-307	1.00000e-307
106.2	0.00000e+00	1.00000e-307	1.00000e-307
106.3	0.00000e+00	1.00000e-307	1.00000e-307
106.4	0.00000e+00	1.00000e-307	1.00000e-307
106.5	0.00000e+00	1.00000e-307	1.00000e-307
106.6	0.00000e+00	1.00000e-307	1.00000e-307
106.7	0.00000e+00	1.00000e-307	1.00000e-307
106.8	0.00000e+00	1.00000e-307	1.00000e-307
106.9	0.00000e+00	1.00000e-307	1.00000e-307
107.0	0.00000e+00	1.00000e-307	1.00000e-307
107.1	0.00000e+00	1.00000e-307	1.00000e-307
107.2	0.00000e+00	1.00000e-307	1.00000e-307
107.3	0.00000e+00	1.00000e-307	1.00000e-307
107.4	0.00000e+00	1.00000e-307	1.00000e-307
107.5	0.00000e+00	1.00000e-307	1.00000e-307
107.6	0.00000e+00	1.00000e-307	1.00000e-307
107.7	0.00000e+00	1.00000e-307	1.00000e-307
107.8	0.00000e+00	1.00000e-307	1.00000e-307
107.9	0.00000e+00	1.00000e-307	1.00000e-307
108.0	0.00000e+00	1.00000e-307	1.00000e-307
108.1	0.00000e+00	1.00000e-307	1.00000e-307
108.2	0.00000e+00	1.00000e-307	1.00000e-307
108.3	0.00000e+00	1.00000e-307	1.00000e-307
108.4	0.00000e+00	1.00000e-307	1.00000e-307
108.5	0.00000e+00	1.00000e-307	1.00000e-307
108.6	0.00000e+00	1.00000e-307	1.00000e-307
108.7	0.00000e+00	1.00000e-307	1.00000e-307
108.8	0.00000e+00	1.00000e-307	1.00000e-307
108.9	0.00000e+00	1.00000e-307	1.00000e-307
109.0	0.00000e+00	1.00000e-307	1.00000e-307
109.1	0.00000e+00	1.00000e-307	1.00000e-307
109.2	0.00000e+00	1.00000e-307	1.00000e-307
109.3	0.00000e+00	1.00000e-307	1.00000e-307
109.4	0.00000e+00	1.00000e-307	1.00000e-307
109.5	0.00000e+00	1.00000e-307	1.00000e-307
109.6	0.00000e+00	1.00000e-307	1.00000e-307
109.7	0.00000e+00	1.00000e-307	1.00000e-307
109.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
109.9	0.00000e+00	1.00000e-307	1.00000e-307
110.0	0.00000e+00	1.00000e-307	1.00000e-307
110.1	0.00000e+00	1.00000e-307	1.00000e-307
110.2	0.00000e+00	1.00000e-307	1.00000e-307
110.3	0.00000e+00	1.00000e-307	1.00000e-307
110.4	0.00000e+00	1.00000e-307	1.00000e-307
110.5	0.00000e+00	1.00000e-307	1.00000e-307
110.6	0.00000e+00	1.00000e-307	1.00000e-307
110.7	0.00000e+00	1.00000e-307	1.00000e-307
110.8	0.00000e+00	1.00000e-307	1.00000e-307
110.9	0.00000e+00	1.00000e-307	1.00000e-307
111.0	0.00000e+00	1.00000e-307	1.00000e-307
111.1	0.00000e+00	1.00000e-307	1.00000e-307
111.2	0.00000e+00	1.00000e-307	1.00000e-307
111.3	0.00000e+00	1.00000e-307	1.00000e-307
111.4	0.00000e+00	1.00000e-307	1.00000e-307
111.5	0.00000e+00	1.00000e-307	1.00000e-307
111.6	0.00000e+00	1.00000e-307	1.00000e-307
111.7	0.00000e+00	1.00000e-307	1.00000e-307
111.8	0.00000e+00	1.00000e-307	1.00000e-307
111.9	0.00000e+00	1.00000e-307	1.00000e-307
112.0	0.00000e+00	1.00000e-307	1.00000e-307
112.1	0.00000e+00	1.00000e-307	1.00000e-307
112.2	0.00000e+00	1.00000e-307	1.00000e-307
112.3	0.00000e+00	1.00000e-307	1.00000e-307
112.4	0.00000e+00	1.00000e-307	1.00000e-307
112.5	0.00000e+00	1.00000e-307	1.00000e-307
112.6	0.00000e+00	1.00000e-307	1.00000e-307
112.7	0.00000e+00	1.00000e-307	1.00000e-307
112.8	0.00000e+00	1.00000e-307	1.00000e-307
112.9	0.00000e+00	1.00000e-307	1.00000e-307
113.0	0.00000e+00	1.00000e-307	1.00000e-307
113.1	0.00000e+00	1.00000e-307	1.00000e-307
113.2	0.00000e+00	1.00000e-307	1.00000e-307
113.3	0.00000e+00	1.00000e-307	1.00000e-307
113.4	0.00000e+00	1.00000e-307	1.00000e-307
113.5	0.00000e+00	1.00000e-307	1.00000e-307
113.6	0.00000e+00	1.00000e-307	1.00000e-307
113.7	0.00000e+00	1.00000e-307	1.00000e-307
113.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
113.9	0.00000e+00	1.00000e-307	1.00000e-307
114.0	0.00000e+00	1.00000e-307	1.00000e-307
114.1	0.00000e+00	1.00000e-307	1.00000e-307
114.2	0.00000e+00	1.00000e-307	1.00000e-307
114.3	0.00000e+00	1.00000e-307	1.00000e-307
114.4	0.00000e+00	1.00000e-307	1.00000e-307
114.5	0.00000e+00	1.00000e-307	1.00000e-307
114.6	0.00000e+00	1.00000e-307	1.00000e-307
114.7	0.00000e+00	1.00000e-307	1.00000e-307
114.8	0.00000e+00	1.00000e-307	1.00000e-307
114.9	0.00000e+00	1.00000e-307	1.00000e-307
115.0	0.00000e+00	1.00000e-307	1.00000e-307
115.1	0.00000e+00	1.00000e-307	1.00000e-307
115.2	0.00000e+00	1.00000e-307	1.00000e-307
115.3	0.00000e+00	1.00000e-307	1.00000e-307
115.4	0.00000e+00	1.00000e-307	1.00000e-307
115.5	0.00000e+00	1.00000e-307	1.00000e-307
115.6	0.00000e+00	1.00000e-307	1.00000e-307
115.7	0.00000e+00	1.00000e-307	1.00000e-307
115.8	0.00000e+00	1.00000e-307	1.00000e-307
115.9	0.00000e+00	1.00000e-307	1.00000e-307
116.0	0.00000e+00	1.00000e-307	1.00000e-307
116.1	0.00000e+00	1.00000e-307	1.00000e-307
116.2	0.00000e+00	1.00000e-307	1.00000e-307
116.3	0.00000e+00	1.00000e-307	1.00000e-307
116.4	0.00000e+00	1.00000e-307	1.00000e-307
116.5	0.00000e+00	1.00000e-307	1.00000e-307
116.6	0.00000e+00	1.00000e-307	1.00000e-307
116.7	0.00000e+00	1.00000e-307	1.00000e-307
116.8	0.00000e+00	1.00000e-307	1.00000e-307
116.9	0.00000e+00	1.00000e-307	1.00000e-307
117.0	0.00000e+00	1.00000e-307	1.00000e-307
117.1	0.00000e+00	1.00000e-307	1.00000e-307
117.2	0.00000e+00	1.00000e-307	1.00000e-307
117.3	0.00000e+00	1.00000e-307	1.00000e-307
117.4	0.00000e+00	1.00000e-307	1.00000e-307
117.5	0.00000e+00	1.00000e-307	1.00000e-307
117.6	0.00000e+00	1.00000e-307	1.00000e-307
117.7	0.00000e+00	1.00000e-307	1.00000e-307
117.8	0.00000e+00	1.00000e-307	1.00000e-307

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
117.9	0.00000e+00	1.00000e-307	1.00000e-307
118.0	0.00000e+00	1.00000e-307	1.00000e-307
118.1	0.00000e+00	1.00000e-307	1.00000e-307
118.2	0.00000e+00	1.00000e-307	1.00000e-307
118.3	0.00000e+00	1.00000e-307	1.00000e-307
118.4	0.00000e+00	1.00000e-307	1.00000e-307
118.5	0.00000e+00	1.00000e-307	1.00000e-307
118.6	0.00000e+00	1.00000e-307	1.00000e-307
118.7	0.00000e+00	1.00000e-307	1.00000e-307
118.8	0.00000e+00	1.00000e-307	1.00000e-307
118.9	0.00000e+00	1.00000e-307	1.00000e-307
119.0	0.00000e+00	1.00000e-307	1.00000e-307
119.1	0.00000e+00	1.00000e-307	1.00000e-307
119.2	0.00000e+00	1.00000e-307	1.00000e-307
119.3	0.00000e+00	1.00000e-307	1.00000e-307
119.4	0.00000e+00	1.00000e-307	1.00000e-307
119.5	0.00000e+00	1.00000e-307	1.00000e-307
119.6	0.00000e+00	1.00000e-307	1.00000e-307
119.7	0.00000e+00	1.00000e-307	1.00000e-307
119.8	0.00000e+00	1.00000e-307	1.00000e-307
119.9	0.00000e+00	1.00000e-307	1.00000e-307
120.0	0.00000e+00	1.00000e-307	1.00000e-307
120.1	0.00000e+00	1.00000e-307	1.00000e-307
120.2	0.00000e+00	1.00000e-307	1.00000e-307
120.3	0.00000e+00	1.00000e-307	1.00000e-307
120.4	0.00000e+00	1.00000e-307	1.00000e-307
120.5	0.00000e+00	1.00000e-307	1.00000e-307
120.6	0.00000e+00	1.00000e-307	1.00000e-307
120.7	0.00000e+00	1.00000e-307	1.00000e-307
120.8	0.00000e+00	1.00000e-307	1.00000e-307
120.9	0.00000e+00	1.00000e-307	1.00000e-307
121.0	0.00000e+00	1.00000e-307	1.00000e-307
121.1	0.00000e+00	1.00000e-307	1.00000e-307
121.2	0.00000e+00	1.00000e-307	1.00000e-307
121.3	0.00000e+00	1.00000e-307	1.00000e-307
121.4	0.00000e+00	1.00000e-307	1.00000e-307
121.5	0.00000e+00	1.00000e-307	1.00000e-307
121.6	0.00000e+00	1.00000e-307	1.00000e-307
121.7	0.00000e+00	1.00000e-307	1.00000e-307
121.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
121.9	0.00000e+00	1.00000e-307	1.00000e-307
122.0	0.00000e+00	1.00000e-307	1.00000e-307
122.1	0.00000e+00	1.00000e-307	1.00000e-307
122.2	0.00000e+00	1.00000e-307	1.00000e-307
122.3	0.00000e+00	1.00000e-307	1.00000e-307
122.4	0.00000e+00	1.00000e-307	1.00000e-307
122.5	0.00000e+00	1.00000e-307	1.00000e-307
122.6	0.00000e+00	1.00000e-307	1.00000e-307
122.7	0.00000e+00	1.00000e-307	1.00000e-307
122.8	0.00000e+00	1.00000e-307	1.00000e-307
122.9	0.00000e+00	1.00000e-307	1.00000e-307
123.0	0.00000e+00	1.00000e-307	1.00000e-307
123.1	0.00000e+00	1.00000e-307	1.00000e-307
123.2	0.00000e+00	1.00000e-307	1.00000e-307
123.3	0.00000e+00	1.00000e-307	1.00000e-307
123.4	0.00000e+00	1.00000e-307	1.00000e-307
123.5	0.00000e+00	1.00000e-307	1.00000e-307
123.6	0.00000e+00	1.00000e-307	1.00000e-307
123.7	0.00000e+00	1.00000e-307	1.00000e-307
123.8	0.00000e+00	1.00000e-307	1.00000e-307
123.9	0.00000e+00	1.00000e-307	1.00000e-307
124.0	0.00000e+00	1.00000e-307	1.00000e-307
124.1	0.00000e+00	1.00000e-307	1.00000e-307
124.2	0.00000e+00	1.00000e-307	1.00000e-307
124.3	0.00000e+00	1.00000e-307	1.00000e-307
124.4	0.00000e+00	1.00000e-307	1.00000e-307
124.5	0.00000e+00	1.00000e-307	1.00000e-307
124.6	0.00000e+00	1.00000e-307	1.00000e-307
124.7	0.00000e+00	1.00000e-307	1.00000e-307
124.8	0.00000e+00	1.00000e-307	1.00000e-307
124.9	0.00000e+00	1.00000e-307	1.00000e-307
125.0	0.00000e+00	1.00000e-307	1.00000e-307
125.1	0.00000e+00	1.00000e-307	1.00000e-307
125.2	0.00000e+00	1.00000e-307	1.00000e-307
125.3	0.00000e+00	1.00000e-307	1.00000e-307
125.4	0.00000e+00	1.00000e-307	1.00000e-307
125.5	0.00000e+00	1.00000e-307	1.00000e-307
125.6	0.00000e+00	1.00000e-307	1.00000e-307
125.7	0.00000e+00	1.00000e-307	1.00000e-307
125.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
125.9	0.00000e+00	1.00000e-307	1.00000e-307
126.0	0.00000e+00	1.00000e-307	1.00000e-307
126.1	0.00000e+00	1.00000e-307	1.00000e-307
126.2	0.00000e+00	1.00000e-307	1.00000e-307
126.3	0.00000e+00	1.00000e-307	1.00000e-307
126.4	0.00000e+00	1.00000e-307	1.00000e-307
126.5	0.00000e+00	1.00000e-307	1.00000e-307
126.6	0.00000e+00	1.00000e-307	1.00000e-307
126.7	0.00000e+00	1.00000e-307	1.00000e-307
126.8	0.00000e+00	1.00000e-307	1.00000e-307
126.9	0.00000e+00	1.00000e-307	1.00000e-307
127.0	0.00000e+00	1.00000e-307	1.00000e-307
127.1	0.00000e+00	1.00000e-307	1.00000e-307
127.2	0.00000e+00	1.00000e-307	1.00000e-307
127.3	0.00000e+00	1.00000e-307	1.00000e-307
127.4	0.00000e+00	1.00000e-307	1.00000e-307
127.5	0.00000e+00	1.00000e-307	1.00000e-307
127.6	0.00000e+00	1.00000e-307	1.00000e-307
127.7	0.00000e+00	1.00000e-307	1.00000e-307
127.8	0.00000e+00	1.00000e-307	1.00000e-307
127.9	0.00000e+00	1.00000e-307	1.00000e-307
128.0	0.00000e+00	1.00000e-307	1.00000e-307
128.1	0.00000e+00	1.00000e-307	1.00000e-307
128.2	0.00000e+00	1.00000e-307	1.00000e-307
128.3	0.00000e+00	1.00000e-307	1.00000e-307
128.4	0.00000e+00	1.00000e-307	1.00000e-307
128.5	0.00000e+00	1.00000e-307	1.00000e-307
128.6	0.00000e+00	1.00000e-307	1.00000e-307
128.7	0.00000e+00	1.00000e-307	1.00000e-307
128.8	0.00000e+00	1.00000e-307	1.00000e-307
128.9	0.00000e+00	1.00000e-307	1.00000e-307
129.0	0.00000e+00	1.00000e-307	1.00000e-307
129.1	0.00000e+00	1.00000e-307	1.00000e-307
129.2	0.00000e+00	1.00000e-307	1.00000e-307
129.3	0.00000e+00	1.00000e-307	1.00000e-307
129.4	0.00000e+00	1.00000e-307	1.00000e-307
129.5	0.00000e+00	1.00000e-307	1.00000e-307
129.6	0.00000e+00	1.00000e-307	1.00000e-307
129.7	0.00000e+00	1.00000e-307	1.00000e-307
129.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
129.9	0.00000e+00	1.00000e-307	1.00000e-307
130.0	0.00000e+00	1.00000e-307	1.00000e-307
130.1	0.00000e+00	1.00000e-307	1.00000e-307
130.2	0.00000e+00	1.00000e-307	1.00000e-307
130.3	0.00000e+00	1.00000e-307	1.00000e-307
130.4	0.00000e+00	1.00000e-307	1.00000e-307
130.5	0.00000e+00	1.00000e-307	1.00000e-307
130.6	0.00000e+00	1.00000e-307	1.00000e-307
130.7	0.00000e+00	1.00000e-307	1.00000e-307
130.8	0.00000e+00	1.00000e-307	1.00000e-307
130.9	0.00000e+00	1.00000e-307	1.00000e-307
131.0	0.00000e+00	1.00000e-307	1.00000e-307
131.1	0.00000e+00	1.00000e-307	1.00000e-307
131.2	0.00000e+00	1.00000e-307	1.00000e-307
131.3	0.00000e+00	1.00000e-307	1.00000e-307
131.4	0.00000e+00	1.00000e-307	1.00000e-307
131.5	0.00000e+00	1.00000e-307	1.00000e-307
131.6	0.00000e+00	1.00000e-307	1.00000e-307
131.7	0.00000e+00	1.00000e-307	1.00000e-307
131.8	0.00000e+00	1.00000e-307	1.00000e-307
131.9	0.00000e+00	1.00000e-307	1.00000e-307
132.0	0.00000e+00	1.00000e-307	1.00000e-307
132.1	0.00000e+00	1.00000e-307	1.00000e-307
132.2	0.00000e+00	1.00000e-307	1.00000e-307
132.3	0.00000e+00	1.00000e-307	1.00000e-307
132.4	0.00000e+00	1.00000e-307	1.00000e-307
132.5	0.00000e+00	1.00000e-307	1.00000e-307
132.6	0.00000e+00	1.00000e-307	1.00000e-307
132.7	0.00000e+00	1.00000e-307	1.00000e-307
132.8	0.00000e+00	1.00000e-307	1.00000e-307
132.9	0.00000e+00	1.00000e-307	1.00000e-307
133.0	0.00000e+00	1.00000e-307	1.00000e-307
133.1	0.00000e+00	1.00000e-307	1.00000e-307
133.2	0.00000e+00	1.00000e-307	1.00000e-307
133.3	0.00000e+00	1.00000e-307	1.00000e-307
133.4	0.00000e+00	1.00000e-307	1.00000e-307
133.5	0.00000e+00	1.00000e-307	1.00000e-307
133.6	0.00000e+00	1.00000e-307	1.00000e-307
133.7	0.00000e+00	1.00000e-307	1.00000e-307
133.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
133.9	0.00000e+00	1.00000e-307	1.00000e-307
134.0	0.00000e+00	1.00000e-307	1.00000e-307
134.1	0.00000e+00	1.00000e-307	1.00000e-307
134.2	0.00000e+00	1.00000e-307	1.00000e-307
134.3	0.00000e+00	1.00000e-307	1.00000e-307
134.4	0.00000e+00	1.00000e-307	1.00000e-307
134.5	0.00000e+00	1.00000e-307	1.00000e-307
134.6	0.00000e+00	1.00000e-307	1.00000e-307
134.7	0.00000e+00	1.00000e-307	1.00000e-307
134.8	0.00000e+00	1.00000e-307	1.00000e-307
134.9	0.00000e+00	1.00000e-307	1.00000e-307
135.0	0.00000e+00	1.00000e-307	1.00000e-307
135.1	0.00000e+00	1.00000e-307	1.00000e-307
135.2	0.00000e+00	1.00000e-307	1.00000e-307
135.3	0.00000e+00	1.00000e-307	1.00000e-307
135.4	0.00000e+00	1.00000e-307	1.00000e-307
135.5	0.00000e+00	1.00000e-307	1.00000e-307
135.6	0.00000e+00	1.00000e-307	1.00000e-307
135.7	0.00000e+00	1.00000e-307	1.00000e-307
135.8	0.00000e+00	1.00000e-307	1.00000e-307
135.9	0.00000e+00	1.00000e-307	1.00000e-307
136.0	0.00000e+00	1.00000e-307	1.00000e-307
136.1	0.00000e+00	1.00000e-307	1.00000e-307
136.2	0.00000e+00	1.00000e-307	1.00000e-307
136.3	0.00000e+00	1.00000e-307	1.00000e-307
136.4	0.00000e+00	1.00000e-307	1.00000e-307
136.5	0.00000e+00	1.00000e-307	1.00000e-307
136.6	0.00000e+00	1.00000e-307	1.00000e-307
136.7	0.00000e+00	1.00000e-307	1.00000e-307
136.8	0.00000e+00	1.00000e-307	1.00000e-307
136.9	0.00000e+00	1.00000e-307	1.00000e-307
137.0	0.00000e+00	1.00000e-307	1.00000e-307
137.1	0.00000e+00	1.00000e-307	1.00000e-307
137.2	0.00000e+00	1.00000e-307	1.00000e-307
137.3	0.00000e+00	1.00000e-307	1.00000e-307
137.4	0.00000e+00	1.00000e-307	1.00000e-307
137.5	0.00000e+00	1.00000e-307	1.00000e-307
137.6	0.00000e+00	1.00000e-307	1.00000e-307
137.7	0.00000e+00	1.00000e-307	1.00000e-307
137.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
137.9	0.00000e+00	1.00000e-307	1.00000e-307
138.0	0.00000e+00	1.00000e-307	1.00000e-307
138.1	0.00000e+00	1.00000e-307	1.00000e-307
138.2	0.00000e+00	1.00000e-307	1.00000e-307
138.3	0.00000e+00	1.00000e-307	1.00000e-307
138.4	0.00000e+00	1.00000e-307	1.00000e-307
138.5	0.00000e+00	1.00000e-307	1.00000e-307
138.6	0.00000e+00	1.00000e-307	1.00000e-307
138.7	0.00000e+00	1.00000e-307	1.00000e-307
138.8	0.00000e+00	1.00000e-307	1.00000e-307
138.9	0.00000e+00	1.00000e-307	1.00000e-307
139.0	0.00000e+00	1.00000e-307	1.00000e-307
139.1	0.00000e+00	1.00000e-307	1.00000e-307
139.2	0.00000e+00	1.00000e-307	1.00000e-307
139.3	0.00000e+00	1.00000e-307	1.00000e-307
139.4	0.00000e+00	1.00000e-307	1.00000e-307
139.5	0.00000e+00	1.00000e-307	1.00000e-307
139.6	0.00000e+00	1.00000e-307	1.00000e-307
139.7	0.00000e+00	1.00000e-307	1.00000e-307
139.8	0.00000e+00	1.00000e-307	1.00000e-307
139.9	0.00000e+00	1.00000e-307	1.00000e-307
140.0	0.00000e+00	1.00000e-307	1.00000e-307
140.1	0.00000e+00	1.00000e-307	1.00000e-307
140.2	0.00000e+00	1.00000e-307	1.00000e-307
140.3	0.00000e+00	1.00000e-307	1.00000e-307
140.4	0.00000e+00	1.00000e-307	1.00000e-307
140.5	0.00000e+00	1.00000e-307	1.00000e-307
140.6	0.00000e+00	1.00000e-307	1.00000e-307
140.7	0.00000e+00	1.00000e-307	1.00000e-307
140.8	0.00000e+00	1.00000e-307	1.00000e-307
140.9	0.00000e+00	1.00000e-307	1.00000e-307
141.0	0.00000e+00	1.00000e-307	1.00000e-307
141.1	0.00000e+00	1.00000e-307	1.00000e-307
141.2	0.00000e+00	1.00000e-307	1.00000e-307
141.3	0.00000e+00	1.00000e-307	1.00000e-307
141.4	0.00000e+00	1.00000e-307	1.00000e-307
141.5	0.00000e+00	1.00000e-307	1.00000e-307
141.6	0.00000e+00	1.00000e-307	1.00000e-307
141.7	0.00000e+00	1.00000e-307	1.00000e-307
141.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
141.9	0.00000e+00	1.00000e-307	1.00000e-307
142.0	0.00000e+00	1.00000e-307	1.00000e-307
142.1	0.00000e+00	1.00000e-307	1.00000e-307
142.2	0.00000e+00	1.00000e-307	1.00000e-307
142.3	0.00000e+00	1.00000e-307	1.00000e-307
142.4	0.00000e+00	1.00000e-307	1.00000e-307
142.5	0.00000e+00	1.00000e-307	1.00000e-307
142.6	0.00000e+00	1.00000e-307	1.00000e-307
142.7	0.00000e+00	1.00000e-307	1.00000e-307
142.8	0.00000e+00	1.00000e-307	1.00000e-307
142.9	0.00000e+00	1.00000e-307	1.00000e-307
143.0	0.00000e+00	1.00000e-307	1.00000e-307
143.1	0.00000e+00	1.00000e-307	1.00000e-307
143.2	0.00000e+00	1.00000e-307	1.00000e-307
143.3	0.00000e+00	1.00000e-307	1.00000e-307
143.4	0.00000e+00	1.00000e-307	1.00000e-307
143.5	0.00000e+00	1.00000e-307	1.00000e-307
143.6	0.00000e+00	1.00000e-307	1.00000e-307
143.7	0.00000e+00	1.00000e-307	1.00000e-307
143.8	0.00000e+00	1.00000e-307	1.00000e-307
143.9	0.00000e+00	1.00000e-307	1.00000e-307
144.0	0.00000e+00	1.00000e-307	1.00000e-307
144.1	0.00000e+00	1.00000e-307	1.00000e-307
144.2	0.00000e+00	1.00000e-307	1.00000e-307
144.3	0.00000e+00	1.00000e-307	1.00000e-307
144.4	0.00000e+00	1.00000e-307	1.00000e-307
144.5	0.00000e+00	1.00000e-307	1.00000e-307
144.6	0.00000e+00	1.00000e-307	1.00000e-307
144.7	0.00000e+00	1.00000e-307	1.00000e-307
144.8	0.00000e+00	1.00000e-307	1.00000e-307
144.9	0.00000e+00	1.00000e-307	1.00000e-307
145.0	0.00000e+00	1.00000e-307	1.00000e-307
145.1	0.00000e+00	1.00000e-307	1.00000e-307
145.2	0.00000e+00	1.00000e-307	1.00000e-307
145.3	0.00000e+00	1.00000e-307	1.00000e-307
145.4	0.00000e+00	1.00000e-307	1.00000e-307
145.5	0.00000e+00	1.00000e-307	1.00000e-307
145.6	0.00000e+00	1.00000e-307	1.00000e-307
145.7	0.00000e+00	1.00000e-307	1.00000e-307
145.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
145.9	0.00000e+00	1.00000e-307	1.00000e-307
146.0	0.00000e+00	1.00000e-307	1.00000e-307
146.1	0.00000e+00	1.00000e-307	1.00000e-307
146.2	0.00000e+00	1.00000e-307	1.00000e-307
146.3	0.00000e+00	1.00000e-307	1.00000e-307
146.4	0.00000e+00	1.00000e-307	1.00000e-307
146.5	0.00000e+00	1.00000e-307	1.00000e-307
146.6	0.00000e+00	1.00000e-307	1.00000e-307
146.7	0.00000e+00	1.00000e-307	1.00000e-307
146.8	0.00000e+00	1.00000e-307	1.00000e-307
146.9	0.00000e+00	1.00000e-307	1.00000e-307
147.0	0.00000e+00	1.00000e-307	1.00000e-307
147.1	0.00000e+00	1.00000e-307	1.00000e-307
147.2	0.00000e+00	1.00000e-307	1.00000e-307
147.3	0.00000e+00	1.00000e-307	1.00000e-307
147.4	0.00000e+00	1.00000e-307	1.00000e-307
147.5	0.00000e+00	1.00000e-307	1.00000e-307
147.6	0.00000e+00	1.00000e-307	1.00000e-307
147.7	0.00000e+00	1.00000e-307	1.00000e-307
147.8	0.00000e+00	1.00000e-307	1.00000e-307
147.9	0.00000e+00	1.00000e-307	1.00000e-307
148.0	0.00000e+00	1.00000e-307	1.00000e-307
148.1	0.00000e+00	1.00000e-307	1.00000e-307
148.2	0.00000e+00	1.00000e-307	1.00000e-307
148.3	0.00000e+00	1.00000e-307	1.00000e-307
148.4	0.00000e+00	1.00000e-307	1.00000e-307
148.5	0.00000e+00	1.00000e-307	1.00000e-307
148.6	0.00000e+00	1.00000e-307	1.00000e-307
148.7	0.00000e+00	1.00000e-307	1.00000e-307
148.8	0.00000e+00	1.00000e-307	1.00000e-307
148.9	0.00000e+00	1.00000e-307	1.00000e-307
149.0	0.00000e+00	1.00000e-307	1.00000e-307
149.1	0.00000e+00	1.00000e-307	1.00000e-307
149.2	0.00000e+00	1.00000e-307	1.00000e-307
149.3	0.00000e+00	1.00000e-307	1.00000e-307
149.4	0.00000e+00	1.00000e-307	1.00000e-307
149.5	0.00000e+00	1.00000e-307	1.00000e-307
149.6	0.00000e+00	1.00000e-307	1.00000e-307
149.7	0.00000e+00	1.00000e-307	1.00000e-307
149.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
149.9	0.00000e+00	1.00000e-307	1.00000e-307
150.0	0.00000e+00	1.00000e-307	1.00000e-307
150.1	0.00000e+00	1.00000e-307	1.00000e-307
150.2	0.00000e+00	1.00000e-307	1.00000e-307
150.3	0.00000e+00	1.00000e-307	1.00000e-307
150.4	0.00000e+00	1.00000e-307	1.00000e-307
150.5	0.00000e+00	1.00000e-307	1.00000e-307
150.6	0.00000e+00	1.00000e-307	1.00000e-307
150.7	0.00000e+00	1.00000e-307	1.00000e-307
150.8	0.00000e+00	1.00000e-307	1.00000e-307
150.9	0.00000e+00	1.00000e-307	1.00000e-307
151.0	0.00000e+00	1.00000e-307	1.00000e-307
151.1	0.00000e+00	1.00000e-307	1.00000e-307
151.2	0.00000e+00	1.00000e-307	1.00000e-307
151.3	0.00000e+00	1.00000e-307	1.00000e-307
151.4	0.00000e+00	1.00000e-307	1.00000e-307
151.5	0.00000e+00	1.00000e-307	1.00000e-307
151.6	0.00000e+00	1.00000e-307	1.00000e-307
151.7	0.00000e+00	1.00000e-307	1.00000e-307
151.8	0.00000e+00	1.00000e-307	1.00000e-307
151.9	0.00000e+00	1.00000e-307	1.00000e-307
152.0	0.00000e+00	1.00000e-307	1.00000e-307
152.1	0.00000e+00	1.00000e-307	1.00000e-307
152.2	0.00000e+00	1.00000e-307	1.00000e-307
152.3	0.00000e+00	1.00000e-307	1.00000e-307
152.4	0.00000e+00	1.00000e-307	1.00000e-307
152.5	0.00000e+00	1.00000e-307	1.00000e-307
152.6	0.00000e+00	1.00000e-307	1.00000e-307
152.7	0.00000e+00	1.00000e-307	1.00000e-307
152.8	0.00000e+00	1.00000e-307	1.00000e-307
152.9	0.00000e+00	1.00000e-307	1.00000e-307
153.0	0.00000e+00	1.00000e-307	1.00000e-307
153.1	0.00000e+00	1.00000e-307	1.00000e-307
153.2	0.00000e+00	1.00000e-307	1.00000e-307
153.3	0.00000e+00	1.00000e-307	1.00000e-307
153.4	0.00000e+00	1.00000e-307	1.00000e-307
153.5	0.00000e+00	1.00000e-307	1.00000e-307
153.6	0.00000e+00	1.00000e-307	1.00000e-307
153.7	0.00000e+00	1.00000e-307	1.00000e-307
153.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
153.9	0.00000e+00	1.00000e-307	1.00000e-307
154.0	0.00000e+00	1.00000e-307	1.00000e-307
154.1	0.00000e+00	1.00000e-307	1.00000e-307
154.2	0.00000e+00	1.00000e-307	1.00000e-307
154.3	0.00000e+00	1.00000e-307	1.00000e-307
154.4	0.00000e+00	1.00000e-307	1.00000e-307
154.5	0.00000e+00	1.00000e-307	1.00000e-307
154.6	0.00000e+00	1.00000e-307	1.00000e-307
154.7	0.00000e+00	1.00000e-307	1.00000e-307
154.8	0.00000e+00	1.00000e-307	1.00000e-307
154.9	0.00000e+00	1.00000e-307	1.00000e-307
155.0	0.00000e+00	1.00000e-307	1.00000e-307
155.1	0.00000e+00	1.00000e-307	1.00000e-307
155.2	0.00000e+00	1.00000e-307	1.00000e-307
155.3	0.00000e+00	1.00000e-307	1.00000e-307
155.4	0.00000e+00	1.00000e-307	1.00000e-307
155.5	0.00000e+00	1.00000e-307	1.00000e-307
155.6	0.00000e+00	1.00000e-307	1.00000e-307
155.7	0.00000e+00	1.00000e-307	1.00000e-307
155.8	0.00000e+00	1.00000e-307	1.00000e-307
155.9	0.00000e+00	1.00000e-307	1.00000e-307
156.0	0.00000e+00	1.00000e-307	1.00000e-307
156.1	0.00000e+00	1.00000e-307	1.00000e-307
156.2	0.00000e+00	1.00000e-307	1.00000e-307
156.3	0.00000e+00	1.00000e-307	1.00000e-307
156.4	0.00000e+00	1.00000e-307	1.00000e-307
156.5	0.00000e+00	1.00000e-307	1.00000e-307
156.6	0.00000e+00	1.00000e-307	1.00000e-307
156.7	0.00000e+00	1.00000e-307	1.00000e-307
156.8	0.00000e+00	1.00000e-307	1.00000e-307
156.9	0.00000e+00	1.00000e-307	1.00000e-307
157.0	0.00000e+00	1.00000e-307	1.00000e-307
157.1	0.00000e+00	1.00000e-307	1.00000e-307
157.2	0.00000e+00	1.00000e-307	1.00000e-307
157.3	0.00000e+00	1.00000e-307	1.00000e-307
157.4	0.00000e+00	1.00000e-307	1.00000e-307
157.5	0.00000e+00	1.00000e-307	1.00000e-307
157.6	0.00000e+00	1.00000e-307	1.00000e-307
157.7	0.00000e+00	1.00000e-307	1.00000e-307
157.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
157.9	0.00000e+00	1.00000e-307	1.00000e-307
158.0	0.00000e+00	1.00000e-307	1.00000e-307
158.1	0.00000e+00	1.00000e-307	1.00000e-307
158.2	0.00000e+00	1.00000e-307	1.00000e-307
158.3	0.00000e+00	1.00000e-307	1.00000e-307
158.4	0.00000e+00	1.00000e-307	1.00000e-307
158.5	0.00000e+00	1.00000e-307	1.00000e-307
158.6	0.00000e+00	1.00000e-307	1.00000e-307
158.7	0.00000e+00	1.00000e-307	1.00000e-307
158.8	0.00000e+00	1.00000e-307	1.00000e-307
158.9	0.00000e+00	1.00000e-307	1.00000e-307
159.0	0.00000e+00	1.00000e-307	1.00000e-307
159.1	0.00000e+00	1.00000e-307	1.00000e-307
159.2	0.00000e+00	1.00000e-307	1.00000e-307
159.3	0.00000e+00	1.00000e-307	1.00000e-307
159.4	0.00000e+00	1.00000e-307	1.00000e-307
159.5	0.00000e+00	1.00000e-307	1.00000e-307
159.6	0.00000e+00	1.00000e-307	1.00000e-307
159.7	0.00000e+00	1.00000e-307	1.00000e-307
159.8	0.00000e+00	1.00000e-307	1.00000e-307
159.9	0.00000e+00	1.00000e-307	1.00000e-307
160.0	0.00000e+00	1.00000e-307	1.00000e-307
160.1	0.00000e+00	1.00000e-307	1.00000e-307
160.2	0.00000e+00	1.00000e-307	1.00000e-307
160.3	0.00000e+00	1.00000e-307	1.00000e-307
160.4	0.00000e+00	1.00000e-307	1.00000e-307
160.5	0.00000e+00	1.00000e-307	1.00000e-307
160.6	0.00000e+00	1.00000e-307	1.00000e-307
160.7	0.00000e+00	1.00000e-307	1.00000e-307
160.8	0.00000e+00	1.00000e-307	1.00000e-307
160.9	0.00000e+00	1.00000e-307	1.00000e-307
161.0	0.00000e+00	1.00000e-307	1.00000e-307
161.1	0.00000e+00	1.00000e-307	1.00000e-307
161.2	0.00000e+00	1.00000e-307	1.00000e-307
161.3	0.00000e+00	1.00000e-307	1.00000e-307
161.4	0.00000e+00	1.00000e-307	1.00000e-307
161.5	0.00000e+00	1.00000e-307	1.00000e-307
161.6	0.00000e+00	1.00000e-307	1.00000e-307
161.7	0.00000e+00	1.00000e-307	1.00000e-307
161.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
161.9	0.00000e+00	1.00000e-307	1.00000e-307
162.0	0.00000e+00	1.00000e-307	1.00000e-307
162.1	0.00000e+00	1.00000e-307	1.00000e-307
162.2	0.00000e+00	1.00000e-307	1.00000e-307
162.3	0.00000e+00	1.00000e-307	1.00000e-307
162.4	0.00000e+00	1.00000e-307	1.00000e-307
162.5	0.00000e+00	1.00000e-307	1.00000e-307
162.6	0.00000e+00	1.00000e-307	1.00000e-307
162.7	0.00000e+00	1.00000e-307	1.00000e-307
162.8	0.00000e+00	1.00000e-307	1.00000e-307
162.9	0.00000e+00	1.00000e-307	1.00000e-307
163.0	0.00000e+00	1.00000e-307	1.00000e-307
163.1	0.00000e+00	1.00000e-307	1.00000e-307
163.2	0.00000e+00	1.00000e-307	1.00000e-307
163.3	0.00000e+00	1.00000e-307	1.00000e-307
163.4	0.00000e+00	1.00000e-307	1.00000e-307
163.5	0.00000e+00	1.00000e-307	1.00000e-307
163.6	0.00000e+00	1.00000e-307	1.00000e-307
163.7	0.00000e+00	1.00000e-307	1.00000e-307
163.8	0.00000e+00	1.00000e-307	1.00000e-307
163.9	0.00000e+00	1.00000e-307	1.00000e-307
164.0	0.00000e+00	1.00000e-307	1.00000e-307
164.1	0.00000e+00	1.00000e-307	1.00000e-307
164.2	0.00000e+00	1.00000e-307	1.00000e-307
164.3	0.00000e+00	1.00000e-307	1.00000e-307
164.4	0.00000e+00	1.00000e-307	1.00000e-307
164.5	0.00000e+00	1.00000e-307	1.00000e-307
164.6	0.00000e+00	1.00000e-307	1.00000e-307
164.7	0.00000e+00	1.00000e-307	1.00000e-307
164.8	0.00000e+00	1.00000e-307	1.00000e-307
164.9	0.00000e+00	1.00000e-307	1.00000e-307
165.0	0.00000e+00	1.00000e-307	1.00000e-307
165.1	0.00000e+00	1.00000e-307	1.00000e-307
165.2	0.00000e+00	1.00000e-307	1.00000e-307
165.3	0.00000e+00	1.00000e-307	1.00000e-307
165.4	0.00000e+00	1.00000e-307	1.00000e-307
165.5	0.00000e+00	1.00000e-307	1.00000e-307
165.6	0.00000e+00	1.00000e-307	1.00000e-307
165.7	0.00000e+00	1.00000e-307	1.00000e-307
165.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
165.9	0.00000e+00	1.00000e-307	1.00000e-307
166.0	0.00000e+00	1.00000e-307	1.00000e-307
166.1	0.00000e+00	1.00000e-307	1.00000e-307
166.2	0.00000e+00	1.00000e-307	1.00000e-307
166.3	0.00000e+00	1.00000e-307	1.00000e-307
166.4	0.00000e+00	1.00000e-307	1.00000e-307
166.5	0.00000e+00	1.00000e-307	1.00000e-307
166.6	0.00000e+00	1.00000e-307	1.00000e-307
166.7	0.00000e+00	1.00000e-307	1.00000e-307
166.8	0.00000e+00	1.00000e-307	1.00000e-307
166.9	0.00000e+00	1.00000e-307	1.00000e-307
167.0	0.00000e+00	1.00000e-307	1.00000e-307
167.1	0.00000e+00	1.00000e-307	1.00000e-307
167.2	0.00000e+00	1.00000e-307	1.00000e-307
167.3	0.00000e+00	1.00000e-307	1.00000e-307
167.4	0.00000e+00	1.00000e-307	1.00000e-307
167.5	0.00000e+00	1.00000e-307	1.00000e-307
167.6	0.00000e+00	1.00000e-307	1.00000e-307
167.7	0.00000e+00	1.00000e-307	1.00000e-307
167.8	0.00000e+00	1.00000e-307	1.00000e-307
167.9	0.00000e+00	1.00000e-307	1.00000e-307
168.0	0.00000e+00	1.00000e-307	1.00000e-307
168.1	0.00000e+00	1.00000e-307	1.00000e-307
168.2	0.00000e+00	1.00000e-307	1.00000e-307
168.3	0.00000e+00	1.00000e-307	1.00000e-307
168.4	0.00000e+00	1.00000e-307	1.00000e-307
168.5	0.00000e+00	1.00000e-307	1.00000e-307
168.6	0.00000e+00	1.00000e-307	1.00000e-307
168.7	0.00000e+00	1.00000e-307	1.00000e-307
168.8	0.00000e+00	1.00000e-307	1.00000e-307
168.9	0.00000e+00	1.00000e-307	1.00000e-307
169.0	0.00000e+00	1.00000e-307	1.00000e-307
169.1	0.00000e+00	1.00000e-307	1.00000e-307
169.2	0.00000e+00	1.00000e-307	1.00000e-307
169.3	0.00000e+00	1.00000e-307	1.00000e-307
169.4	0.00000e+00	1.00000e-307	1.00000e-307
169.5	0.00000e+00	1.00000e-307	1.00000e-307
169.6	0.00000e+00	1.00000e-307	1.00000e-307
169.7	0.00000e+00	1.00000e-307	1.00000e-307
169.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
169.9	0.00000e+00	1.00000e-307	1.00000e-307
170.0	0.00000e+00	1.00000e-307	1.00000e-307
170.1	0.00000e+00	1.00000e-307	1.00000e-307
170.2	0.00000e+00	1.00000e-307	1.00000e-307
170.3	0.00000e+00	1.00000e-307	1.00000e-307
170.4	0.00000e+00	1.00000e-307	1.00000e-307
170.5	0.00000e+00	1.00000e-307	1.00000e-307
170.6	0.00000e+00	1.00000e-307	1.00000e-307
170.7	0.00000e+00	1.00000e-307	1.00000e-307
170.8	0.00000e+00	1.00000e-307	1.00000e-307
170.9	0.00000e+00	1.00000e-307	1.00000e-307
171.0	0.00000e+00	1.00000e-307	1.00000e-307
171.1	0.00000e+00	1.00000e-307	1.00000e-307
171.2	0.00000e+00	1.00000e-307	1.00000e-307
171.3	0.00000e+00	1.00000e-307	1.00000e-307
171.4	0.00000e+00	1.00000e-307	1.00000e-307
171.5	0.00000e+00	1.00000e-307	1.00000e-307
171.6	0.00000e+00	1.00000e-307	1.00000e-307
171.7	0.00000e+00	1.00000e-307	1.00000e-307
171.8	0.00000e+00	1.00000e-307	1.00000e-307
171.9	0.00000e+00	1.00000e-307	1.00000e-307
172.0	0.00000e+00	1.00000e-307	1.00000e-307
172.1	0.00000e+00	1.00000e-307	1.00000e-307
172.2	0.00000e+00	1.00000e-307	1.00000e-307
172.3	0.00000e+00	1.00000e-307	1.00000e-307
172.4	0.00000e+00	1.00000e-307	1.00000e-307
172.5	0.00000e+00	1.00000e-307	1.00000e-307
172.6	0.00000e+00	1.00000e-307	1.00000e-307
172.7	0.00000e+00	1.00000e-307	1.00000e-307
172.8	0.00000e+00	1.00000e-307	1.00000e-307
172.9	0.00000e+00	1.00000e-307	1.00000e-307
173.0	0.00000e+00	1.00000e-307	1.00000e-307
173.1	0.00000e+00	1.00000e-307	1.00000e-307
173.2	0.00000e+00	1.00000e-307	1.00000e-307
173.3	0.00000e+00	1.00000e-307	1.00000e-307
173.4	0.00000e+00	1.00000e-307	1.00000e-307
173.5	0.00000e+00	1.00000e-307	1.00000e-307
173.6	0.00000e+00	1.00000e-307	1.00000e-307
173.7	0.00000e+00	1.00000e-307	1.00000e-307
173.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
173.9	0.00000e+00	1.00000e-307	1.00000e-307
174.0	0.00000e+00	1.00000e-307	1.00000e-307
174.1	0.00000e+00	1.00000e-307	1.00000e-307
174.2	0.00000e+00	1.00000e-307	1.00000e-307
174.3	0.00000e+00	1.00000e-307	1.00000e-307
174.4	0.00000e+00	1.00000e-307	1.00000e-307
174.5	0.00000e+00	1.00000e-307	1.00000e-307
174.6	0.00000e+00	1.00000e-307	1.00000e-307
174.7	0.00000e+00	1.00000e-307	1.00000e-307
174.8	0.00000e+00	1.00000e-307	1.00000e-307
174.9	0.00000e+00	1.00000e-307	1.00000e-307
175.0	0.00000e+00	1.00000e-307	1.00000e-307
175.1	0.00000e+00	1.00000e-307	1.00000e-307
175.2	0.00000e+00	1.00000e-307	1.00000e-307
175.3	0.00000e+00	1.00000e-307	1.00000e-307
175.4	0.00000e+00	1.00000e-307	1.00000e-307
175.5	0.00000e+00	1.00000e-307	1.00000e-307
175.6	0.00000e+00	1.00000e-307	1.00000e-307
175.7	0.00000e+00	1.00000e-307	1.00000e-307
175.8	0.00000e+00	1.00000e-307	1.00000e-307
175.9	0.00000e+00	1.00000e-307	1.00000e-307
176.0	0.00000e+00	1.00000e-307	1.00000e-307
176.1	0.00000e+00	1.00000e-307	1.00000e-307
176.2	0.00000e+00	1.00000e-307	1.00000e-307
176.3	0.00000e+00	1.00000e-307	1.00000e-307
176.4	0.00000e+00	1.00000e-307	1.00000e-307
176.5	0.00000e+00	1.00000e-307	1.00000e-307
176.6	0.00000e+00	1.00000e-307	1.00000e-307
176.7	0.00000e+00	1.00000e-307	1.00000e-307
176.8	0.00000e+00	1.00000e-307	1.00000e-307
176.9	0.00000e+00	1.00000e-307	1.00000e-307
177.0	0.00000e+00	1.00000e-307	1.00000e-307
177.1	0.00000e+00	1.00000e-307	1.00000e-307
177.2	0.00000e+00	1.00000e-307	1.00000e-307
177.3	0.00000e+00	1.00000e-307	1.00000e-307
177.4	0.00000e+00	1.00000e-307	1.00000e-307
177.5	0.00000e+00	1.00000e-307	1.00000e-307
177.6	0.00000e+00	1.00000e-307	1.00000e-307
177.7	0.00000e+00	1.00000e-307	1.00000e-307
177.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
177.9	0.00000e+00	1.00000e-307	1.00000e-307
178.0	0.00000e+00	1.00000e-307	1.00000e-307
178.1	0.00000e+00	1.00000e-307	1.00000e-307
178.2	0.00000e+00	1.00000e-307	1.00000e-307
178.3	0.00000e+00	1.00000e-307	1.00000e-307
178.4	0.00000e+00	1.00000e-307	1.00000e-307
178.5	0.00000e+00	1.00000e-307	1.00000e-307
178.6	0.00000e+00	1.00000e-307	1.00000e-307
178.7	0.00000e+00	1.00000e-307	1.00000e-307
178.8	0.00000e+00	1.00000e-307	1.00000e-307
178.9	0.00000e+00	1.00000e-307	1.00000e-307
179.0	0.00000e+00	1.00000e-307	1.00000e-307
179.1	0.00000e+00	1.00000e-307	1.00000e-307
179.2	0.00000e+00	1.00000e-307	1.00000e-307
179.3	0.00000e+00	1.00000e-307	1.00000e-307
179.4	0.00000e+00	1.00000e-307	1.00000e-307
179.5	0.00000e+00	1.00000e-307	1.00000e-307
179.6	0.00000e+00	1.00000e-307	1.00000e-307
179.7	0.00000e+00	1.00000e-307	1.00000e-307
179.8	0.00000e+00	1.00000e-307	1.00000e-307
179.9	0.00000e+00	1.00000e-307	1.00000e-307
180.0	0.00000e+00	1.00000e-307	1.00000e-307
180.1	0.00000e+00	1.00000e-307	1.00000e-307
180.2	0.00000e+00	1.00000e-307	1.00000e-307
180.3	0.00000e+00	1.00000e-307	1.00000e-307
180.4	0.00000e+00	1.00000e-307	1.00000e-307
180.5	0.00000e+00	1.00000e-307	1.00000e-307
180.6	0.00000e+00	1.00000e-307	1.00000e-307
180.7	0.00000e+00	1.00000e-307	1.00000e-307
180.8	0.00000e+00	1.00000e-307	1.00000e-307
180.9	0.00000e+00	1.00000e-307	1.00000e-307
181.0	0.00000e+00	1.00000e-307	1.00000e-307
181.1	0.00000e+00	1.00000e-307	1.00000e-307
181.2	0.00000e+00	1.00000e-307	1.00000e-307
181.3	0.00000e+00	1.00000e-307	1.00000e-307
181.4	0.00000e+00	1.00000e-307	1.00000e-307
181.5	0.00000e+00	1.00000e-307	1.00000e-307
181.6	0.00000e+00	1.00000e-307	1.00000e-307
181.7	0.00000e+00	1.00000e-307	1.00000e-307
181.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
181.9	0.00000e+00	1.00000e-307	1.00000e-307
182.0	0.00000e+00	1.00000e-307	1.00000e-307
182.1	0.00000e+00	1.00000e-307	1.00000e-307
182.2	0.00000e+00	1.00000e-307	1.00000e-307
182.3	0.00000e+00	1.00000e-307	1.00000e-307
182.4	0.00000e+00	1.00000e-307	1.00000e-307
182.5	0.00000e+00	1.00000e-307	1.00000e-307
182.6	0.00000e+00	1.00000e-307	1.00000e-307
182.7	0.00000e+00	1.00000e-307	1.00000e-307
182.8	0.00000e+00	1.00000e-307	1.00000e-307
182.9	0.00000e+00	1.00000e-307	1.00000e-307
183.0	0.00000e+00	1.00000e-307	1.00000e-307
183.1	0.00000e+00	1.00000e-307	1.00000e-307
183.2	0.00000e+00	1.00000e-307	1.00000e-307
183.3	0.00000e+00	1.00000e-307	1.00000e-307
183.4	0.00000e+00	1.00000e-307	1.00000e-307
183.5	0.00000e+00	1.00000e-307	1.00000e-307
183.6	0.00000e+00	1.00000e-307	1.00000e-307
183.7	0.00000e+00	1.00000e-307	1.00000e-307
183.8	0.00000e+00	1.00000e-307	1.00000e-307
183.9	0.00000e+00	1.00000e-307	1.00000e-307
184.0	0.00000e+00	1.00000e-307	1.00000e-307
184.1	0.00000e+00	1.00000e-307	1.00000e-307
184.2	0.00000e+00	1.00000e-307	1.00000e-307
184.3	0.00000e+00	1.00000e-307	1.00000e-307
184.4	0.00000e+00	1.00000e-307	1.00000e-307
184.5	0.00000e+00	1.00000e-307	1.00000e-307
184.6	0.00000e+00	1.00000e-307	1.00000e-307
184.7	0.00000e+00	1.00000e-307	1.00000e-307
184.8	0.00000e+00	1.00000e-307	1.00000e-307
184.9	0.00000e+00	1.00000e-307	1.00000e-307
185.0	0.00000e+00	1.00000e-307	1.00000e-307
185.1	0.00000e+00	1.00000e-307	1.00000e-307
185.2	0.00000e+00	1.00000e-307	1.00000e-307
185.3	0.00000e+00	1.00000e-307	1.00000e-307
185.4	0.00000e+00	1.00000e-307	1.00000e-307
185.5	0.00000e+00	1.00000e-307	1.00000e-307
185.6	0.00000e+00	1.00000e-307	1.00000e-307
185.7	0.00000e+00	1.00000e-307	1.00000e-307
185.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
185.9	0.00000e+00	1.00000e-307	1.00000e-307
186.0	0.00000e+00	1.00000e-307	1.00000e-307
186.1	0.00000e+00	1.00000e-307	1.00000e-307
186.2	0.00000e+00	1.00000e-307	1.00000e-307
186.3	0.00000e+00	1.00000e-307	1.00000e-307
186.4	0.00000e+00	1.00000e-307	1.00000e-307
186.5	0.00000e+00	1.00000e-307	1.00000e-307
186.6	0.00000e+00	1.00000e-307	1.00000e-307
186.7	0.00000e+00	1.00000e-307	1.00000e-307
186.8	0.00000e+00	1.00000e-307	1.00000e-307
186.9	0.00000e+00	1.00000e-307	1.00000e-307
187.0	0.00000e+00	1.00000e-307	1.00000e-307
187.1	0.00000e+00	1.00000e-307	1.00000e-307
187.2	0.00000e+00	1.00000e-307	1.00000e-307
187.3	0.00000e+00	1.00000e-307	1.00000e-307
187.4	0.00000e+00	1.00000e-307	1.00000e-307
187.5	0.00000e+00	1.00000e-307	1.00000e-307
187.6	0.00000e+00	1.00000e-307	1.00000e-307
187.7	0.00000e+00	1.00000e-307	1.00000e-307
187.8	0.00000e+00	1.00000e-307	1.00000e-307
187.9	0.00000e+00	1.00000e-307	1.00000e-307
188.0	0.00000e+00	1.00000e-307	1.00000e-307
188.1	0.00000e+00	1.00000e-307	1.00000e-307
188.2	0.00000e+00	1.00000e-307	1.00000e-307
188.3	0.00000e+00	1.00000e-307	1.00000e-307
188.4	0.00000e+00	1.00000e-307	1.00000e-307
188.5	0.00000e+00	1.00000e-307	1.00000e-307
188.6	0.00000e+00	1.00000e-307	1.00000e-307
188.7	0.00000e+00	1.00000e-307	1.00000e-307
188.8	0.00000e+00	1.00000e-307	1.00000e-307
188.9	0.00000e+00	1.00000e-307	1.00000e-307
189.0	0.00000e+00	1.00000e-307	1.00000e-307
189.1	0.00000e+00	1.00000e-307	1.00000e-307
189.2	0.00000e+00	1.00000e-307	1.00000e-307
189.3	0.00000e+00	1.00000e-307	1.00000e-307
189.4	0.00000e+00	1.00000e-307	1.00000e-307
189.5	0.00000e+00	1.00000e-307	1.00000e-307
189.6	0.00000e+00	1.00000e-307	1.00000e-307
189.7	0.00000e+00	1.00000e-307	1.00000e-307
189.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
189.9	0.00000e+00	1.00000e-307	1.00000e-307
190.0	0.00000e+00	1.00000e-307	1.00000e-307
190.1	0.00000e+00	1.00000e-307	1.00000e-307
190.2	0.00000e+00	1.00000e-307	1.00000e-307
190.3	0.00000e+00	1.00000e-307	1.00000e-307
190.4	0.00000e+00	1.00000e-307	1.00000e-307
190.5	0.00000e+00	1.00000e-307	1.00000e-307
190.6	0.00000e+00	1.00000e-307	1.00000e-307
190.7	0.00000e+00	1.00000e-307	1.00000e-307
190.8	0.00000e+00	1.00000e-307	1.00000e-307
190.9	0.00000e+00	1.00000e-307	1.00000e-307
191.0	0.00000e+00	1.00000e-307	1.00000e-307
191.1	0.00000e+00	1.00000e-307	1.00000e-307
191.2	0.00000e+00	1.00000e-307	1.00000e-307
191.3	0.00000e+00	1.00000e-307	1.00000e-307
191.4	0.00000e+00	1.00000e-307	1.00000e-307
191.5	0.00000e+00	1.00000e-307	1.00000e-307
191.6	0.00000e+00	1.00000e-307	1.00000e-307
191.7	0.00000e+00	1.00000e-307	1.00000e-307
191.8	0.00000e+00	1.00000e-307	1.00000e-307
191.9	0.00000e+00	1.00000e-307	1.00000e-307
192.0	0.00000e+00	1.00000e-307	1.00000e-307
192.1	0.00000e+00	1.00000e-307	1.00000e-307
192.2	0.00000e+00	1.00000e-307	1.00000e-307
192.3	0.00000e+00	1.00000e-307	1.00000e-307
192.4	0.00000e+00	1.00000e-307	1.00000e-307
192.5	0.00000e+00	1.00000e-307	1.00000e-307
192.6	0.00000e+00	1.00000e-307	1.00000e-307
192.7	0.00000e+00	1.00000e-307	1.00000e-307
192.8	0.00000e+00	1.00000e-307	1.00000e-307
192.9	0.00000e+00	1.00000e-307	1.00000e-307
193.0	0.00000e+00	1.00000e-307	1.00000e-307
193.1	0.00000e+00	1.00000e-307	1.00000e-307
193.2	0.00000e+00	1.00000e-307	1.00000e-307
193.3	0.00000e+00	1.00000e-307	1.00000e-307
193.4	0.00000e+00	1.00000e-307	1.00000e-307
193.5	0.00000e+00	1.00000e-307	1.00000e-307
193.6	0.00000e+00	1.00000e-307	1.00000e-307
193.7	0.00000e+00	1.00000e-307	1.00000e-307
193.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
193.9	0.00000e+00	1.00000e-307	1.00000e-307
194.0	0.00000e+00	1.00000e-307	1.00000e-307
194.1	0.00000e+00	1.00000e-307	1.00000e-307
194.2	0.00000e+00	1.00000e-307	1.00000e-307
194.3	0.00000e+00	1.00000e-307	1.00000e-307
194.4	0.00000e+00	1.00000e-307	1.00000e-307
194.5	0.00000e+00	1.00000e-307	1.00000e-307
194.6	0.00000e+00	1.00000e-307	1.00000e-307
194.7	0.00000e+00	1.00000e-307	1.00000e-307
194.8	0.00000e+00	1.00000e-307	1.00000e-307
194.9	0.00000e+00	1.00000e-307	1.00000e-307
195.0	0.00000e+00	1.00000e-307	1.00000e-307
195.1	0.00000e+00	1.00000e-307	1.00000e-307
195.2	0.00000e+00	1.00000e-307	1.00000e-307
195.3	0.00000e+00	1.00000e-307	1.00000e-307
195.4	0.00000e+00	1.00000e-307	1.00000e-307
195.5	0.00000e+00	1.00000e-307	1.00000e-307
195.6	0.00000e+00	1.00000e-307	1.00000e-307
195.7	0.00000e+00	1.00000e-307	1.00000e-307
195.8	0.00000e+00	1.00000e-307	1.00000e-307
195.9	0.00000e+00	1.00000e-307	1.00000e-307
196.0	0.00000e+00	1.00000e-307	1.00000e-307
196.1	0.00000e+00	1.00000e-307	1.00000e-307
196.2	0.00000e+00	1.00000e-307	1.00000e-307
196.3	0.00000e+00	1.00000e-307	1.00000e-307
196.4	0.00000e+00	1.00000e-307	1.00000e-307
196.5	0.00000e+00	1.00000e-307	1.00000e-307
196.6	0.00000e+00	1.00000e-307	1.00000e-307
196.7	0.00000e+00	1.00000e-307	1.00000e-307
196.8	0.00000e+00	1.00000e-307	1.00000e-307
196.9	0.00000e+00	1.00000e-307	1.00000e-307
197.0	0.00000e+00	1.00000e-307	1.00000e-307
197.1	0.00000e+00	1.00000e-307	1.00000e-307
197.2	0.00000e+00	1.00000e-307	1.00000e-307
197.3	0.00000e+00	1.00000e-307	1.00000e-307
197.4	0.00000e+00	1.00000e-307	1.00000e-307
197.5	0.00000e+00	1.00000e-307	1.00000e-307
197.6	0.00000e+00	1.00000e-307	1.00000e-307
197.7	0.00000e+00	1.00000e-307	1.00000e-307
197.8	0.00000e+00	1.00000e-307	1.00000e-307

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x	$A(x)$	P_{v1}	P_{v2}
197.9	0.00000e+00	1.00000e-307	1.00000e-307
198.0	0.00000e+00	1.00000e-307	1.00000e-307
198.1	0.00000e+00	1.00000e-307	1.00000e-307
198.2	0.00000e+00	1.00000e-307	1.00000e-307
198.3	0.00000e+00	1.00000e-307	1.00000e-307
198.4	0.00000e+00	1.00000e-307	1.00000e-307
198.5	0.00000e+00	1.00000e-307	1.00000e-307
198.6	0.00000e+00	1.00000e-307	1.00000e-307
198.7	0.00000e+00	1.00000e-307	1.00000e-307
198.8	0.00000e+00	1.00000e-307	1.00000e-307
198.9	0.00000e+00	1.00000e-307	1.00000e-307
199.0	0.00000e+00	1.00000e-307	1.00000e-307
199.1	0.00000e+00	1.00000e-307	1.00000e-307
199.2	0.00000e+00	1.00000e-307	1.00000e-307
199.3	0.00000e+00	1.00000e-307	1.00000e-307
199.4	0.00000e+00	1.00000e-307	1.00000e-307
199.5	0.00000e+00	1.00000e-307	1.00000e-307
199.6	0.00000e+00	1.00000e-307	1.00000e-307
199.7	0.00000e+00	1.00000e-307	1.00000e-307
199.8	0.00000e+00	1.00000e-307	1.00000e-307
199.9	0.00000e+00	1.00000e-307	1.00000e-307
200.0	0.00000e+00	1.00000e-307	1.00000e-307

Table B.7.9: Output for Problem 7.2.1-DIST

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000	0.0000	0.0000
10	0.1000	0.1000	0.1000
20	0.2000	0.2000	0.2000
30	0.3000	0.3000	0.3000
40	0.4000	0.4000	0.4000
50	0.5000	0.5000	0.5000
60	0.6000	0.6000	0.6000
70	0.7000	0.7000	0.7000
80	0.8000	0.8000	0.8000
90	0.9000	0.9000	0.9000
100	1.0000	1.0000	1.0000
110	1.0000	1.0000	1.0000
120	1.0000	1.0000	1.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
130	1.0000	1.0000	1.0000
140	1.0000	1.0000	1.0000
150	1.0000	1.0000	1.0000
160	1.0000	1.0000	1.0000
170	1.0000	1.0000	1.0000
180	1.0000	1.0000	1.0000
190	1.0000	1.0000	1.0000
200	1.0000	1.0000	1.0000
210	1.0000	1.0000	1.0000
220	1.0000	1.0000	1.0000
230	1.0000	1.0000	1.0000
240	1.0000	1.0000	1.0000
250	1.0000	1.0000	1.0000
260	1.0000	1.0000	1.0000
270	1.0000	1.0000	1.0000
280	1.0000	1.0000	1.0000
290	1.0000	1.0000	1.0000
300	1.0000	1.0000	1.0000
310	0.9000	0.9000	0.9000
320	0.8000	0.8000	0.8000
330	0.7000	0.7000	0.7000
340	0.6000	0.6000	0.6000
350	0.5000	0.5000	0.5000
360	0.4000	0.4000	0.4000
370	0.3000	0.3000	0.3000
380	0.2000	0.2000	0.2000
390	0.1000	0.1000	0.1000
400	-0.0000	0.0000	0.0000

Table B.7.10: Output for Problem 7.2.2-DIST2

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000	0.0000	0.0000
10	0.1000	0.1000	0.1000
20	0.2000	0.2000	0.2000
30	0.3000	0.3000	0.3000
40	0.4000	0.4000	0.4000
50	0.5000	0.5000	0.5000
60	0.6000	0.6000	0.6000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
70	0.7000	0.7000	0.7000
80	0.8000	0.8000	0.8000
90	0.9000	0.9000	0.9000
100	1.0000	1.0000	1.0000
110	1.0000	0.9964	0.9964
120	1.0000	0.9920	0.9920
130	1.0000	0.9901	0.9901
140	1.0000	0.9938	0.9938
150	1.0000	0.9965	0.9965
160	1.0000	0.9994	0.9994
170	1.0000	0.9969	0.9969
180	1.0000	0.9977	0.9977
190	1.0000	0.9959	0.9959
200	1.0000	0.9996	0.9996
210	1.0000	0.8996	0.8996
220	1.0000	0.7996	0.7996
230	1.0000	0.6996	0.6996
240	1.0000	0.5996	0.5996
250	1.0000	0.4996	0.4996
260	1.0000	0.3996	0.3996
270	1.0000	0.2996	0.2996
280	1.0000	0.1996	0.1996
290	1.0000	0.0996	0.0996
300	1.0000	-0.0004	-0.0004
310	0.9000	-0.1004	-0.1004
320	0.8000	-0.2004	-0.2004
330	0.7000	-0.3004	-0.3004
340	0.6000	-0.4004	-0.4004
350	0.5000	-0.5004	-0.5004
360	0.4000	-0.6004	-0.6004
370	0.3000	-0.7004	-0.7004
380	0.2000	-0.8004	-0.8004
390	0.1000	-0.9004	-0.9004
400	-0.0000	-1.0004	-1.0004

Table B.7.11: Output for Problem 7.2.3-RETA

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000	0.0000	0.0000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
10	0.1000	0.1000	0.1000
20	0.2000	0.2000	0.2000
30	0.3000	0.3000	0.3000
40	0.4000	0.4000	0.4000
50	0.5000	0.5000	0.5000
60	0.6000	0.6000	0.6000
70	0.7000	0.7000	0.7000
80	0.8000	0.8000	0.8000
90	0.9000	0.9000	0.9000
100	1.0000	1.0000	1.0000
110	1.0000	0.9964	0.9964
120	1.0000	0.9920	0.9920
130	1.0000	0.9901	0.9901
140	1.0000	0.9938	0.9938
150	1.0000	0.9965	0.9965
160	1.0000	0.9994	0.9994
170	1.0000	0.9969	0.9969
180	1.0000	0.9977	0.9977
190	1.0000	0.9959	0.9959
200	1.0000	0.9996	0.9996
210	1.0000	0.8996	0.8996
220	1.0000	0.7996	0.7996
230	1.0000	0.6996	0.6996
240	1.0000	0.5996	0.5996
250	1.0000	0.4996	0.4996
260	1.0000	0.3996	0.3996
270	1.0000	0.2996	0.2996
280	1.0000	0.1996	0.1996
290	1.0000	0.0996	0.0996
300	1.0000	-0.0004	-0.0004
310	0.9000	-0.1004	-0.1004
320	0.8000	-0.2004	-0.2004
330	0.7000	-0.3004	-0.3004
340	0.6000	-0.4004	-0.4004
350	0.5000	-0.5004	-0.5004
360	0.4000	-0.6004	-0.6004
370	0.3000	-0.7004	-0.7004
380	0.2000	-0.8004	-0.8004
390	0.1000	-0.9004	-0.9004
400	-0.0000	-1.0004	-1.0004

Table B.7.12: Output for Problem 7.2.4-TRAN

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000	0.0000	0.0000
10	0.2000	0.2000	0.2000
20	0.4000	0.4000	0.4000
30	0.6000	0.6000	0.6000
40	0.8000	0.8000	0.8000
50	1.0000	1.0000	1.0000
60	1.2000	1.2000	1.2000
70	1.4000	1.4000	1.4000
80	1.6000	1.6000	1.6000
90	1.8000	1.8000	1.8000
100	2.0000	2.0000	2.0000
110	2.2000	2.2000	2.2000
120	2.4000	2.4000	2.4000
130	2.6000	2.6000	2.6000
140	2.8000	2.8000	2.8000
150	3.0000	3.0000	3.0000
160	3.2000	3.2000	3.2000
170	3.4000	3.4000	3.4000
180	3.6000	3.6000	3.6000
190	3.8000	3.8000	3.8000
200	4.0000	4.0000	4.0000
210	3.8000	3.8000	3.8000
220	3.6000	3.6000	3.6000
230	3.4000	3.4000	3.4000
240	3.2000	3.2000	3.2000
250	3.0000	3.0000	3.0000
260	2.8000	2.8000	2.8000
270	2.6000	2.6000	2.6000
280	2.4000	2.4000	2.4000
290	2.2000	2.2000	2.2000
300	2.0000	2.0000	2.0000
310	1.8000	1.8000	1.8000
320	1.6000	1.6000	1.6000
330	1.4000	1.4000	1.4000
340	1.2000	1.2000	1.2000
350	1.0000	1.0000	1.0000
360	0.8000	0.8000	0.8000

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
370	0.6000	0.6000	0.6000
380	0.4000	0.4000	0.4000
390	0.2000	0.2000	0.2000
400	-0.0000	0.0000	0.0000

Table B.7.13: Output for Problem 7.2.5-TRAN2

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000	0.0000	0.0000
10	0.1333	0.1333	0.1333
20	0.2667	0.2667	0.2667
30	0.4000	0.4000	0.4000
40	0.5333	0.5333	0.5333
50	0.6667	0.6667	0.6667
60	0.8000	0.8000	0.8000
70	0.9333	0.9333	0.9333
80	1.0667	1.0667	1.0667
90	1.2000	1.2000	1.2000
100	1.3333	1.3333	1.3333
110	1.4667	1.4667	1.4667
120	1.6000	1.6000	1.6000
130	1.7333	1.7333	1.7333
140	1.8667	1.8667	1.8667
150	2.0000	2.0000	2.0000
160	2.1333	2.1333	2.1333
170	2.2667	2.2667	2.2667
180	2.4000	2.4000	2.4000
190	2.5333	2.5333	2.5333
200	2.6667	2.6667	2.6667
210	2.5333	2.5333	2.5333
220	2.4000	2.4000	2.4000
230	2.2667	2.2667	2.2667
240	2.1333	2.1333	2.1333
250	2.0000	2.0000	2.0000
260	1.8667	1.8667	1.8667
270	1.7333	1.7333	1.7333
280	1.6000	1.6000	1.6000
290	1.4667	1.4667	1.4667
300	1.3333	1.3333	1.3333

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
310	1.2000	1.2000	1.2000
320	1.0667	1.0667	1.0667
330	0.9333	0.9333	0.9333
340	0.8000	0.8000	0.8000
350	0.6667	0.6667	0.6667
360	0.5333	0.5333	0.5333
370	0.4000	0.4000	0.4000
380	0.2667	0.2667	0.2667
390	0.1333	0.1333	0.1333
400	-0.0000	0.0000	0.0000

Table B.7.14: Output for Problem 7.3.1-DIST-C2

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	6.9314e-11	6.9304e-11	6.9304e-11
2	6.9312e-11	6.9313e-11	6.9313e-11
3	6.9311e-11	6.9312e-11	6.9312e-11
4	6.9310e-11	6.9310e-11	6.9310e-11
5	6.9309e-11	6.9309e-11	6.9309e-11
6	6.9308e-11	6.9308e-11	6.9308e-11
7	6.9307e-11	6.9307e-11	6.9307e-11
8	6.9305e-11	6.9306e-11	6.9306e-11
9	6.9304e-11	6.9304e-11	6.9304e-11
10	6.9303e-11	6.9303e-11	6.9303e-11
11	6.9302e-11	6.9302e-11	6.9302e-11
12	6.9301e-11	6.9301e-11	6.9301e-11
13	6.9299e-11	6.9300e-11	6.9300e-11
14	6.9298e-11	6.9299e-11	6.9299e-11
15	6.9297e-11	6.9297e-11	6.9297e-11
16	6.9296e-11	6.9296e-11	6.9296e-11
17	6.9295e-11	6.9295e-11	6.9295e-11
18	6.9294e-11	6.9294e-11	6.9294e-11
19	6.9292e-11	6.9293e-11	6.9293e-11
20	6.9291e-11	6.9292e-11	6.9292e-11
21	6.9290e-11	6.9290e-11	6.9290e-11
22	6.9289e-11	6.9289e-11	6.9289e-11
23	6.9288e-11	6.9288e-11	6.9288e-11
24	6.9287e-11	6.9287e-11	6.9287e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
25	6.9285e-11	6.9286e-11	6.9286e-11
26	6.9284e-11	6.9285e-11	6.9285e-11
27	6.9283e-11	6.9283e-11	6.9283e-11
28	6.9282e-11	6.9282e-11	6.9282e-11
29	6.9281e-11	6.9281e-11	6.9281e-11
30	6.9280e-11	6.9280e-11	6.9280e-11
31	6.9278e-11	6.9279e-11	6.9279e-11
32	6.9277e-11	6.9277e-11	6.9277e-11
33	6.9276e-11	6.9276e-11	6.9276e-11
34	6.9275e-11	6.9275e-11	6.9275e-11
35	6.9274e-11	6.9274e-11	6.9274e-11
36	6.9272e-11	6.9273e-11	6.9273e-11
37	6.9271e-11	6.9272e-11	6.9272e-11
38	6.9270e-11	6.9270e-11	6.9270e-11
39	6.9269e-11	6.9269e-11	6.9269e-11
40	6.9268e-11	6.9268e-11	6.9268e-11
41	6.9267e-11	6.9267e-11	6.9267e-11
42	6.9265e-11	6.9266e-11	6.9266e-11
43	6.9264e-11	6.9265e-11	6.9265e-11
44	6.9263e-11	6.9263e-11	6.9263e-11
45	6.9262e-11	6.9262e-11	6.9262e-11
46	6.9261e-11	6.9261e-11	6.9261e-11
47	6.9260e-11	6.9260e-11	6.9260e-11
48	6.9258e-11	6.9259e-11	6.9259e-11
49	6.9257e-11	6.9258e-11	6.9258e-11
50	6.9256e-11	6.9256e-11	6.9256e-11
51	6.9255e-11	6.9255e-11	6.9255e-11
52	6.9254e-11	6.9254e-11	6.9254e-11
53	6.9253e-11	6.9253e-11	6.9253e-11
54	6.9251e-11	6.9252e-11	6.9252e-11
55	6.9250e-11	6.9250e-11	6.9250e-11
56	6.9249e-11	6.9249e-11	6.9249e-11
57	6.9248e-11	6.9248e-11	6.9248e-11
58	6.9247e-11	6.9247e-11	6.9247e-11
59	6.9245e-11	6.9246e-11	6.9246e-11
60	6.9244e-11	6.9245e-11	6.9245e-11
61	6.9243e-11	6.9243e-11	6.9243e-11
62	6.9242e-11	6.9242e-11	6.9242e-11
63	6.9241e-11	6.9241e-11	6.9241e-11
64	6.9240e-11	6.9240e-11	6.9240e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
65	6.9238e-11	6.9239e-11	6.9239e-11
66	6.9237e-11	6.9238e-11	6.9238e-11
67	6.9236e-11	6.9236e-11	6.9236e-11
68	6.9235e-11	6.9235e-11	6.9235e-11
69	6.9234e-11	6.9234e-11	6.9234e-11
70	6.9233e-11	6.9233e-11	6.9233e-11
71	6.9231e-11	6.9232e-11	6.9232e-11
72	6.9230e-11	6.9231e-11	6.9231e-11
73	6.9229e-11	6.9229e-11	6.9229e-11
74	6.9228e-11	6.9228e-11	6.9228e-11
75	6.9227e-11	6.9227e-11	6.9227e-11
76	6.9226e-11	6.9226e-11	6.9226e-11
77	6.9224e-11	6.9225e-11	6.9225e-11
78	6.9223e-11	6.9224e-11	6.9224e-11
79	6.9222e-11	6.9222e-11	6.9222e-11
80	6.9221e-11	6.9221e-11	6.9221e-11
81	6.9220e-11	6.9220e-11	6.9220e-11
82	6.9219e-11	6.9219e-11	6.9219e-11
83	6.9217e-11	6.9218e-11	6.9218e-11
84	6.9216e-11	6.9216e-11	6.9216e-11
85	6.9215e-11	6.9215e-11	6.9215e-11
86	6.9214e-11	6.9214e-11	6.9214e-11
87	6.9213e-11	6.9213e-11	6.9213e-11
88	6.9211e-11	6.9212e-11	6.9212e-11
89	6.9210e-11	6.9211e-11	6.9211e-11
90	6.9209e-11	6.9209e-11	6.9209e-11
91	6.9208e-11	6.9208e-11	6.9208e-11
92	6.9207e-11	6.9207e-11	6.9207e-11
93	6.9206e-11	6.9206e-11	6.9206e-11
94	6.9204e-11	6.9205e-11	6.9205e-11
95	6.9203e-11	6.9204e-11	6.9204e-11
96	6.9202e-11	6.9202e-11	6.9202e-11
97	6.9201e-11	6.9201e-11	6.9201e-11
98	6.9200e-11	6.9200e-11	6.9200e-11
99	6.9199e-11	6.9199e-11	6.9199e-11
100	6.9197e-11	6.9198e-11	6.9198e-11
101	6.9196e-11	6.9197e-11	6.9197e-11
102	6.9195e-11	6.9195e-11	6.9195e-11
103	6.9194e-11	6.9194e-11	6.9194e-11
104	6.9193e-11	6.9193e-11	6.9193e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
105	6.9192e-11	6.9192e-11	6.9192e-11
106	6.9190e-11	6.9191e-11	6.9191e-11
107	6.9189e-11	6.9190e-11	6.9190e-11
108	6.9188e-11	6.9188e-11	6.9188e-11
109	6.9187e-11	6.9187e-11	6.9187e-11
110	6.9186e-11	6.9186e-11	6.9186e-11
111	6.9184e-11	6.9185e-11	6.9185e-11
112	6.9183e-11	6.9184e-11	6.9184e-11
113	6.9182e-11	6.9182e-11	6.9182e-11
114	6.9181e-11	6.9181e-11	6.9181e-11
115	6.9180e-11	6.9180e-11	6.9180e-11
116	6.9179e-11	6.9179e-11	6.9179e-11
117	6.9177e-11	6.9178e-11	6.9178e-11
118	6.9176e-11	6.9177e-11	6.9177e-11
119	6.9175e-11	6.9175e-11	6.9175e-11
120	6.9174e-11	6.9174e-11	6.9174e-11
121	6.9173e-11	6.9173e-11	6.9173e-11
122	6.9172e-11	6.9172e-11	6.9172e-11
123	6.9170e-11	6.9171e-11	6.9171e-11
124	6.9169e-11	6.9170e-11	6.9170e-11
125	6.9168e-11	6.9168e-11	6.9168e-11
126	6.9167e-11	6.9167e-11	6.9167e-11
127	6.9166e-11	6.9166e-11	6.9166e-11
128	6.9165e-11	6.9165e-11	6.9165e-11
129	6.9163e-11	6.9164e-11	6.9164e-11
130	6.9162e-11	6.9163e-11	6.9163e-11
131	6.9161e-11	6.9161e-11	6.9161e-11
132	6.9160e-11	6.9160e-11	6.9160e-11
133	6.9159e-11	6.9159e-11	6.9159e-11
134	6.9158e-11	6.9158e-11	6.9158e-11
135	6.9156e-11	6.9157e-11	6.9157e-11
136	6.9155e-11	6.9156e-11	6.9156e-11
137	6.9154e-11	6.9154e-11	6.9154e-11
138	6.9153e-11	6.9153e-11	6.9153e-11
139	6.9152e-11	6.9152e-11	6.9152e-11
140	6.9150e-11	6.9151e-11	6.9151e-11
141	6.9149e-11	6.9150e-11	6.9150e-11
142	6.9148e-11	6.9149e-11	6.9149e-11
143	6.9147e-11	6.9147e-11	6.9147e-11
144	6.9146e-11	6.9146e-11	6.9146e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
145	6.9145e-11	6.9145e-11	6.9145e-11
146	6.9143e-11	6.9144e-11	6.9144e-11
147	6.9142e-11	6.9143e-11	6.9143e-11
148	6.9141e-11	6.9141e-11	6.9141e-11
149	6.9140e-11	6.9140e-11	6.9140e-11
150	6.9139e-11	6.9139e-11	6.9139e-11
151	6.9138e-11	6.9138e-11	6.9138e-11
152	6.9136e-11	6.9137e-11	6.9137e-11
153	6.9135e-11	6.9136e-11	6.9136e-11
154	6.9134e-11	6.9134e-11	6.9134e-11
155	6.9133e-11	6.9133e-11	6.9133e-11
156	6.9132e-11	6.9132e-11	6.9132e-11
157	6.9131e-11	6.9131e-11	6.9131e-11
158	6.9129e-11	6.9130e-11	6.9130e-11
159	6.9128e-11	6.9129e-11	6.9129e-11
160	6.9127e-11	6.9127e-11	6.9127e-11
161	6.9126e-11	6.9126e-11	6.9126e-11
162	6.9125e-11	6.9125e-11	6.9125e-11
163	6.9124e-11	6.9124e-11	6.9124e-11
164	6.9122e-11	6.9123e-11	6.9123e-11
165	6.9121e-11	6.9122e-11	6.9122e-11
166	6.9120e-11	6.9120e-11	6.9120e-11
167	6.9119e-11	6.9119e-11	6.9119e-11
168	6.9118e-11	6.9118e-11	6.9118e-11
169	6.9116e-11	6.9117e-11	6.9117e-11
170	6.9115e-11	6.9116e-11	6.9116e-11
171	6.9114e-11	6.9115e-11	6.9115e-11
172	6.9113e-11	6.9113e-11	6.9113e-11
173	6.9112e-11	6.9112e-11	6.9112e-11
174	6.9111e-11	6.9111e-11	6.9111e-11
175	6.9109e-11	6.9110e-11	6.9110e-11
176	6.9108e-11	6.9109e-11	6.9109e-11
177	6.9107e-11	6.9107e-11	6.9107e-11
178	6.9106e-11	6.9106e-11	6.9106e-11
179	6.9105e-11	6.9105e-11	6.9105e-11
180	6.9104e-11	6.9104e-11	6.9104e-11
181	6.9102e-11	6.9103e-11	6.9103e-11
182	6.9101e-11	6.9102e-11	6.9102e-11
183	6.9100e-11	6.9100e-11	6.9100e-11
184	6.9099e-11	6.9099e-11	6.9099e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
185	6.9098e-11	6.9098e-11	6.9098e-11
186	6.9097e-11	6.9097e-11	6.9097e-11
187	6.9095e-11	6.9096e-11	6.9096e-11
188	6.9094e-11	6.9095e-11	6.9095e-11
189	6.9093e-11	6.9093e-11	6.9093e-11
190	6.9092e-11	6.9092e-11	6.9092e-11
191	6.9091e-11	6.9091e-11	6.9091e-11
192	6.9090e-11	6.9090e-11	6.9090e-11
193	6.9088e-11	6.9089e-11	6.9089e-11
194	6.9087e-11	6.9088e-11	6.9088e-11
195	6.9086e-11	6.9086e-11	6.9086e-11
196	6.9085e-11	6.9085e-11	6.9085e-11
197	6.9084e-11	6.9084e-11	6.9084e-11
198	6.9083e-11	6.9083e-11	6.9083e-11
199	6.9081e-11	6.9082e-11	6.9082e-11
200	6.9080e-11	6.9081e-11	6.9081e-11
201	6.9079e-11	6.9079e-11	6.9079e-11
202	6.9078e-11	6.9078e-11	6.9078e-11
203	6.9077e-11	6.9077e-11	6.9077e-11
204	6.9075e-11	6.9076e-11	6.9076e-11
205	6.9074e-11	6.9075e-11	6.9075e-11
206	6.9073e-11	6.9074e-11	6.9074e-11
207	6.9072e-11	6.9072e-11	6.9072e-11
208	6.9071e-11	6.9071e-11	6.9071e-11
209	6.9070e-11	6.9070e-11	6.9070e-11
210	6.9068e-11	6.9069e-11	6.9069e-11
211	6.9067e-11	6.9068e-11	6.9068e-11
212	6.9066e-11	6.9067e-11	6.9067e-11
213	6.9065e-11	6.9065e-11	6.9065e-11
214	6.9064e-11	6.9064e-11	6.9064e-11
215	6.9063e-11	6.9063e-11	6.9063e-11
216	6.9061e-11	6.9062e-11	6.9062e-11
217	6.9060e-11	6.9061e-11	6.9061e-11
218	6.9059e-11	6.9059e-11	6.9059e-11
219	6.9058e-11	6.9058e-11	6.9058e-11
220	6.9057e-11	6.9057e-11	6.9057e-11
221	6.9056e-11	6.9056e-11	6.9056e-11
222	6.9054e-11	6.9055e-11	6.9055e-11
223	6.9053e-11	6.9054e-11	6.9054e-11
224	6.9052e-11	6.9052e-11	6.9052e-11

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x	$A(x)$	P_{v1}	P_{v2}
225	6.9051e-11	6.9051e-11	6.9051e-11
226	6.9050e-11	6.9050e-11	6.9050e-11
227	6.9049e-11	6.9049e-11	6.9049e-11
228	6.9047e-11	6.9048e-11	6.9048e-11
229	6.9046e-11	6.9047e-11	6.9047e-11
230	6.9045e-11	6.9045e-11	6.9045e-11
231	6.9044e-11	6.9044e-11	6.9044e-11
232	6.9043e-11	6.9043e-11	6.9043e-11
233	6.9041e-11	6.9042e-11	6.9042e-11
234	6.9040e-11	6.9041e-11	6.9041e-11
235	6.9039e-11	6.9040e-11	6.9040e-11
236	6.9038e-11	6.9038e-11	6.9038e-11
237	6.9037e-11	6.9037e-11	6.9037e-11
238	6.9036e-11	6.9036e-11	6.9036e-11
239	6.9034e-11	6.9035e-11	6.9035e-11
240	6.9033e-11	6.9034e-11	6.9034e-11
241	6.9032e-11	6.9033e-11	6.9033e-11
242	6.9031e-11	6.9031e-11	6.9031e-11
243	6.9030e-11	6.9030e-11	6.9030e-11
244	6.9029e-11	6.9029e-11	6.9029e-11
245	6.9027e-11	6.9028e-11	6.9028e-11
246	6.9026e-11	6.9027e-11	6.9027e-11
247	6.9025e-11	6.9026e-11	6.9026e-11
248	6.9024e-11	6.9024e-11	6.9024e-11
249	6.9023e-11	6.9023e-11	6.9023e-11
250	6.9022e-11	6.9022e-11	6.9022e-11
251	6.9020e-11	6.9021e-11	6.9021e-11
252	6.9019e-11	6.9020e-11	6.9020e-11
253	6.9018e-11	6.9019e-11	6.9019e-11
254	6.9017e-11	6.9017e-11	6.9017e-11
255	6.9016e-11	6.9016e-11	6.9016e-11
256	6.9015e-11	6.9015e-11	6.9015e-11
257	6.9013e-11	6.9014e-11	6.9014e-11
258	6.9012e-11	6.9013e-11	6.9013e-11
259	6.9011e-11	6.9011e-11	6.9011e-11
260	6.9010e-11	6.9010e-11	6.9010e-11
261	6.9009e-11	6.9009e-11	6.9009e-11
262	6.9008e-11	6.9008e-11	6.9008e-11
263	6.9006e-11	6.9007e-11	6.9007e-11
264	6.9005e-11	6.9006e-11	6.9006e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
265	6.9004e-11	6.9004e-11	6.9004e-11
266	6.9003e-11	6.9003e-11	6.9003e-11
267	6.9002e-11	6.9002e-11	6.9002e-11
268	6.9000e-11	6.9001e-11	6.9001e-11
269	6.8999e-11	6.9000e-11	6.9000e-11
270	6.8998e-11	6.8999e-11	6.8999e-11
271	6.8997e-11	6.8997e-11	6.8997e-11
272	6.8996e-11	6.8996e-11	6.8996e-11
273	6.8995e-11	6.8995e-11	6.8995e-11
274	6.8993e-11	6.8994e-11	6.8994e-11
275	6.8992e-11	6.8993e-11	6.8993e-11
276	6.8991e-11	6.8992e-11	6.8992e-11
277	6.8990e-11	6.8990e-11	6.8990e-11
278	6.8989e-11	6.8989e-11	6.8989e-11
279	6.8988e-11	6.8988e-11	6.8988e-11
280	6.8986e-11	6.8987e-11	6.8987e-11
281	6.8985e-11	6.8986e-11	6.8986e-11
282	6.8984e-11	6.8985e-11	6.8985e-11
283	6.8983e-11	6.8983e-11	6.8983e-11
284	6.8982e-11	6.8982e-11	6.8982e-11
285	6.8981e-11	6.8981e-11	6.8981e-11
286	6.8979e-11	6.8980e-11	6.8980e-11
287	6.8978e-11	6.8979e-11	6.8979e-11
288	6.8977e-11	6.8978e-11	6.8978e-11
289	6.8976e-11	6.8976e-11	6.8976e-11
290	6.8975e-11	6.8975e-11	6.8975e-11
291	6.8974e-11	6.8974e-11	6.8974e-11
292	6.8972e-11	6.8973e-11	6.8973e-11
293	6.8971e-11	6.8972e-11	6.8972e-11
294	6.8970e-11	6.8971e-11	6.8971e-11
295	6.8969e-11	6.8969e-11	6.8969e-11
296	6.8968e-11	6.8968e-11	6.8968e-11
297	6.8967e-11	6.8967e-11	6.8967e-11
298	6.8965e-11	6.8966e-11	6.8966e-11
299	6.8964e-11	6.8965e-11	6.8965e-11
300	6.8963e-11	6.8964e-11	6.8964e-11
301	6.8962e-11	6.8962e-11	6.8962e-11
302	6.8961e-11	6.8961e-11	6.8961e-11
303	6.8959e-11	6.8960e-11	6.8960e-11
304	6.8958e-11	6.8959e-11	6.8959e-11

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x	$A(x)$	P_{v1}	P_{v2}
305	6.8957e-11	6.8958e-11	6.8958e-11
306	6.8956e-11	6.8957e-11	6.8957e-11
307	6.8955e-11	6.8955e-11	6.8955e-11
308	6.8954e-11	6.8954e-11	6.8954e-11
309	6.8952e-11	6.8953e-11	6.8953e-11
310	6.8951e-11	6.8952e-11	6.8952e-11
311	6.8950e-11	6.8951e-11	6.8951e-11
312	6.8949e-11	6.8949e-11	6.8949e-11
313	6.8948e-11	6.8948e-11	6.8948e-11
314	6.8947e-11	6.8947e-11	6.8947e-11
315	6.8945e-11	6.8946e-11	6.8946e-11
316	6.8944e-11	6.8945e-11	6.8945e-11
317	6.8943e-11	6.8944e-11	6.8944e-11
318	6.8942e-11	6.8942e-11	6.8942e-11
319	6.8941e-11	6.8941e-11	6.8941e-11
320	6.8940e-11	6.8940e-11	6.8940e-11
321	6.8938e-11	6.8939e-11	6.8939e-11
322	6.8937e-11	6.8938e-11	6.8938e-11
323	6.8936e-11	6.8937e-11	6.8937e-11
324	6.8935e-11	6.8935e-11	6.8935e-11
325	6.8934e-11	6.8934e-11	6.8934e-11
326	6.8933e-11	6.8933e-11	6.8933e-11
327	6.8931e-11	6.8932e-11	6.8932e-11
328	6.8930e-11	6.8931e-11	6.8931e-11
329	6.8929e-11	6.8930e-11	6.8930e-11
330	6.8928e-11	6.8928e-11	6.8928e-11
331	6.8927e-11	6.8927e-11	6.8927e-11
332	6.8926e-11	6.8926e-11	6.8926e-11
333	6.8924e-11	6.8925e-11	6.8925e-11
334	6.8923e-11	6.8924e-11	6.8924e-11
335	6.8922e-11	6.8923e-11	6.8923e-11
336	6.8921e-11	6.8921e-11	6.8921e-11
337	6.8920e-11	6.8920e-11	6.8920e-11
338	6.8919e-11	6.8919e-11	6.8919e-11
339	6.8917e-11	6.8918e-11	6.8918e-11
340	6.8916e-11	6.8917e-11	6.8917e-11
341	6.8915e-11	6.8916e-11	6.8916e-11
342	6.8914e-11	6.8914e-11	6.8914e-11
343	6.8913e-11	6.8913e-11	6.8913e-11
344	6.8911e-11	6.8912e-11	6.8912e-11

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x	$A(x)$	P_{v1}	P_{v2}
345	6.8910e-11	6.8911e-11	6.8911e-11
346	6.8909e-11	6.8910e-11	6.8910e-11
347	6.8908e-11	6.8909e-11	6.8909e-11
348	6.8907e-11	6.8907e-11	6.8907e-11
349	6.8906e-11	6.8906e-11	6.8906e-11
350	6.8904e-11	6.8905e-11	6.8905e-11
351	6.8903e-11	6.8904e-11	6.8904e-11
352	6.8902e-11	6.8903e-11	6.8903e-11
353	6.8901e-11	6.8902e-11	6.8902e-11
354	6.8900e-11	6.8900e-11	6.8900e-11
355	6.8899e-11	6.8899e-11	6.8899e-11
356	6.8897e-11	6.8898e-11	6.8898e-11
357	6.8896e-11	6.8897e-11	6.8897e-11
358	6.8895e-11	6.8896e-11	6.8896e-11
359	6.8894e-11	6.8895e-11	6.8895e-11
360	6.8893e-11	6.8893e-11	6.8893e-11
361	6.8892e-11	6.8892e-11	6.8892e-11
362	6.8890e-11	6.8891e-11	6.8891e-11
363	6.8889e-11	6.8890e-11	6.8890e-11
364	6.8888e-11	6.8889e-11	6.8889e-11
365	6.8887e-11	6.8888e-11	6.8888e-11
366	6.8886e-11	6.8886e-11	6.8886e-11
367	6.8885e-11	6.8885e-11	6.8885e-11
368	6.8883e-11	6.8884e-11	6.8884e-11
369	6.8882e-11	6.8883e-11	6.8883e-11
370	6.8881e-11	6.8882e-11	6.8882e-11
371	6.8880e-11	6.8881e-11	6.8881e-11
372	6.8879e-11	6.8879e-11	6.8879e-11
373	6.8878e-11	6.8878e-11	6.8878e-11
374	6.8876e-11	6.8877e-11	6.8877e-11
375	6.8875e-11	6.8876e-11	6.8876e-11
376	6.8874e-11	6.8875e-11	6.8875e-11
377	6.8873e-11	6.8873e-11	6.8873e-11
378	6.8872e-11	6.8872e-11	6.8872e-11
379	6.8871e-11	6.8871e-11	6.8871e-11
380	6.8869e-11	6.8870e-11	6.8870e-11
381	6.8868e-11	6.8869e-11	6.8869e-11
382	6.8867e-11	6.8868e-11	6.8868e-11
383	6.8866e-11	6.8866e-11	6.8866e-11
384	6.8865e-11	6.8865e-11	6.8865e-11

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x	$A(x)$	P_{v1}	P_{v2}
385	6.8863e-11	6.8864e-11	6.8864e-11
386	6.8862e-11	6.8863e-11	6.8863e-11
387	6.8861e-11	6.8862e-11	6.8862e-11
388	6.8860e-11	6.8861e-11	6.8861e-11
389	6.8859e-11	6.8859e-11	6.8859e-11
390	6.8858e-11	6.8858e-11	6.8858e-11
391	6.8856e-11	6.8857e-11	6.8857e-11
392	6.8855e-11	6.8856e-11	6.8856e-11
393	6.8854e-11	6.8855e-11	6.8855e-11
394	6.8853e-11	6.8854e-11	6.8854e-11
395	6.8852e-11	6.8852e-11	6.8852e-11
396	6.8851e-11	6.8851e-11	6.8851e-11
397	6.8849e-11	6.8850e-11	6.8850e-11
398	6.8848e-11	6.8849e-11	6.8849e-11
399	6.8847e-11	6.8848e-11	6.8848e-11
400	6.8846e-11	6.8847e-11	6.8847e-11
401	6.8845e-11	6.8845e-11	6.8845e-11
402	6.8844e-11	6.8844e-11	6.8844e-11
403	6.8842e-11	6.8843e-11	6.8843e-11
404	6.8841e-11	6.8842e-11	6.8842e-11
405	6.8840e-11	6.8841e-11	6.8841e-11
406	6.8839e-11	6.8840e-11	6.8840e-11
407	6.8838e-11	6.8838e-11	6.8838e-11
408	6.8837e-11	6.8837e-11	6.8837e-11
409	6.8835e-11	6.8836e-11	6.8836e-11
410	6.8834e-11	6.8835e-11	6.8835e-11
411	6.8833e-11	6.8834e-11	6.8834e-11
412	6.8832e-11	6.8833e-11	6.8833e-11
413	6.8831e-11	6.8831e-11	6.8831e-11
414	6.8830e-11	6.8830e-11	6.8830e-11
415	6.8828e-11	6.8829e-11	6.8829e-11
416	6.8827e-11	6.8828e-11	6.8828e-11
417	6.8826e-11	6.8827e-11	6.8827e-11
418	6.8825e-11	6.8826e-11	6.8826e-11
419	6.8824e-11	6.8824e-11	6.8824e-11
420	6.8823e-11	6.8823e-11	6.8823e-11
421	6.8821e-11	6.8822e-11	6.8822e-11
422	6.8820e-11	6.8821e-11	6.8821e-11
423	6.8819e-11	6.8820e-11	6.8820e-11
424	6.8818e-11	6.8819e-11	6.8819e-11

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x	$A(x)$	P_{v1}	P_{v2}
425	6.8817e-11	6.8817e-11	6.8817e-11
426	6.8816e-11	6.8816e-11	6.8816e-11
427	6.8814e-11	6.8815e-11	6.8815e-11
428	6.8813e-11	6.8814e-11	6.8814e-11
429	6.8812e-11	6.8813e-11	6.8813e-11
430	6.8811e-11	6.8812e-11	6.8812e-11
431	6.8810e-11	6.8810e-11	6.8810e-11
432	6.8808e-11	6.8809e-11	6.8809e-11
433	6.8807e-11	6.8808e-11	6.8808e-11
434	6.8806e-11	6.8807e-11	6.8807e-11
435	6.8805e-11	6.8806e-11	6.8806e-11
436	6.8804e-11	6.8805e-11	6.8805e-11
437	6.8803e-11	6.8803e-11	6.8803e-11
438	6.8801e-11	6.8802e-11	6.8802e-11
439	6.8800e-11	6.8801e-11	6.8801e-11
440	6.8799e-11	6.8800e-11	6.8800e-11
441	6.8798e-11	6.8799e-11	6.8799e-11
442	6.8797e-11	6.8798e-11	6.8798e-11
443	6.8796e-11	6.8796e-11	6.8796e-11
444	6.8794e-11	6.8795e-11	6.8795e-11
445	6.8793e-11	6.8794e-11	6.8794e-11
446	6.8792e-11	6.8793e-11	6.8793e-11
447	6.8791e-11	6.8792e-11	6.8792e-11
448	6.8790e-11	6.8791e-11	6.8791e-11
449	6.8789e-11	6.8789e-11	6.8789e-11
450	6.8787e-11	6.8788e-11	6.8788e-11
451	6.8786e-11	6.8787e-11	6.8787e-11
452	6.8785e-11	6.8786e-11	6.8786e-11
453	6.8784e-11	6.8785e-11	6.8785e-11
454	6.8783e-11	6.8784e-11	6.8784e-11
455	6.8782e-11	6.8782e-11	6.8782e-11
456	6.8780e-11	6.8781e-11	6.8781e-11
457	6.8779e-11	6.8780e-11	6.8780e-11
458	6.8778e-11	6.8779e-11	6.8779e-11
459	6.8777e-11	6.8778e-11	6.8778e-11
460	6.8776e-11	6.8777e-11	6.8777e-11
461	6.8775e-11	6.8775e-11	6.8775e-11
462	6.8773e-11	6.8774e-11	6.8774e-11
463	6.8772e-11	6.8773e-11	6.8773e-11
464	6.8771e-11	6.8772e-11	6.8772e-11

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x	$A(x)$	P_{v1}	P_{v2}
465	6.8770e-11	6.8771e-11	6.8771e-11
466	6.8769e-11	6.8770e-11	6.8770e-11
467	6.8768e-11	6.8768e-11	6.8768e-11
468	6.8766e-11	6.8767e-11	6.8767e-11
469	6.8765e-11	6.8766e-11	6.8766e-11
470	6.8764e-11	6.8765e-11	6.8765e-11
471	6.8763e-11	6.8764e-11	6.8764e-11
472	6.8762e-11	6.8763e-11	6.8763e-11
473	6.8761e-11	6.8761e-11	6.8761e-11
474	6.8759e-11	6.8760e-11	6.8760e-11
475	6.8758e-11	6.8759e-11	6.8759e-11
476	6.8757e-11	6.8758e-11	6.8758e-11
477	6.8756e-11	6.8757e-11	6.8757e-11
478	6.8755e-11	6.8756e-11	6.8756e-11
479	6.8753e-11	6.8754e-11	6.8754e-11
480	6.8752e-11	6.8753e-11	6.8753e-11
481	6.8751e-11	6.8752e-11	6.8752e-11
482	6.8750e-11	6.8751e-11	6.8751e-11
483	6.8749e-11	6.8750e-11	6.8750e-11
484	6.8748e-11	6.8749e-11	6.8749e-11
485	6.8746e-11	6.8747e-11	6.8747e-11
486	6.8745e-11	6.8746e-11	6.8746e-11
487	6.8744e-11	6.8745e-11	6.8745e-11
488	6.8743e-11	6.8744e-11	6.8744e-11
489	6.8742e-11	6.8743e-11	6.8743e-11
490	6.8741e-11	6.8742e-11	6.8742e-11
491	6.8739e-11	6.8740e-11	6.8740e-11
492	6.8738e-11	6.8739e-11	6.8739e-11
493	6.8737e-11	6.8738e-11	6.8738e-11
494	6.8736e-11	6.8737e-11	6.8737e-11
495	6.8735e-11	6.8736e-11	6.8736e-11
496	6.8734e-11	6.8735e-11	6.8735e-11
497	6.8732e-11	6.8733e-11	6.8733e-11
498	6.8731e-11	6.8732e-11	6.8732e-11
499	6.8730e-11	6.8731e-11	6.8731e-11
500	6.8729e-11	6.8730e-11	6.8730e-11
501	6.8728e-11	6.8729e-11	6.8729e-11
502	6.8727e-11	6.8728e-11	6.8728e-11
503	6.8725e-11	6.8726e-11	6.8726e-11
504	6.8724e-11	6.8725e-11	6.8725e-11

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x	$A(x)$	P_{v1}	P_{v2}
505	6.8723e-11	6.8724e-11	6.8724e-11
506	6.8722e-11	6.8723e-11	6.8723e-11
507	6.8721e-11	6.8722e-11	6.8722e-11
508	6.8720e-11	6.8721e-11	6.8721e-11
509	6.8718e-11	6.8719e-11	6.8719e-11
510	6.8717e-11	6.8718e-11	6.8718e-11
511	6.8716e-11	6.8717e-11	6.8717e-11
512	6.8715e-11	6.8716e-11	6.8716e-11
513	6.8714e-11	6.8715e-11	6.8715e-11
514	6.8713e-11	6.8714e-11	6.8714e-11
515	6.8711e-11	6.8712e-11	6.8712e-11
516	6.8710e-11	6.8711e-11	6.8711e-11
517	6.8709e-11	6.8710e-11	6.8710e-11
518	6.8708e-11	6.8709e-11	6.8709e-11
519	6.8707e-11	6.8708e-11	6.8708e-11
520	6.8706e-11	6.8707e-11	6.8707e-11
521	6.8704e-11	6.8705e-11	6.8705e-11
522	6.8703e-11	6.8704e-11	6.8704e-11
523	6.8702e-11	6.8703e-11	6.8703e-11
524	6.8701e-11	6.8702e-11	6.8702e-11
525	6.8700e-11	6.8701e-11	6.8701e-11
526	6.8699e-11	6.8700e-11	6.8700e-11
527	6.8697e-11	6.8698e-11	6.8698e-11
528	6.8696e-11	6.8697e-11	6.8697e-11
529	6.8695e-11	6.8696e-11	6.8696e-11
530	6.8694e-11	6.8695e-11	6.8695e-11
531	6.8693e-11	6.8694e-11	6.8694e-11
532	6.8692e-11	6.8693e-11	6.8693e-11
533	6.8690e-11	6.8691e-11	6.8691e-11
534	6.8689e-11	6.8690e-11	6.8690e-11
535	6.8688e-11	6.8689e-11	6.8689e-11
536	6.8687e-11	6.8688e-11	6.8688e-11
537	6.8686e-11	6.8687e-11	6.8687e-11
538	6.8685e-11	6.8686e-11	6.8686e-11
539	6.8683e-11	6.8684e-11	6.8684e-11
540	6.8682e-11	6.8683e-11	6.8683e-11
541	6.8681e-11	6.8682e-11	6.8682e-11
542	6.8680e-11	6.8681e-11	6.8681e-11
543	6.8679e-11	6.8680e-11	6.8680e-11
544	6.8677e-11	6.8679e-11	6.8679e-11

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x	$A(x)$	P_{v1}	P_{v2}
545	6.8676e-11	6.8677e-11	6.8677e-11
546	6.8675e-11	6.8676e-11	6.8676e-11
547	6.8674e-11	6.8675e-11	6.8675e-11
548	6.8673e-11	6.8674e-11	6.8674e-11
549	6.8672e-11	6.8673e-11	6.8673e-11
550	6.8670e-11	6.8672e-11	6.8672e-11
551	6.8669e-11	6.8670e-11	6.8670e-11
552	6.8668e-11	6.8669e-11	6.8669e-11
553	6.8667e-11	6.8668e-11	6.8668e-11
554	6.8666e-11	6.8667e-11	6.8667e-11
555	6.8665e-11	6.8666e-11	6.8666e-11
556	6.8663e-11	6.8665e-11	6.8665e-11
557	6.8662e-11	6.8663e-11	6.8663e-11
558	6.8661e-11	6.8662e-11	6.8662e-11
559	6.8660e-11	6.8661e-11	6.8661e-11
560	6.8659e-11	6.8660e-11	6.8660e-11
561	6.8658e-11	6.8659e-11	6.8659e-11
562	6.8656e-11	6.8658e-11	6.8658e-11
563	6.8655e-11	6.8656e-11	6.8656e-11
564	6.8654e-11	6.8655e-11	6.8655e-11
565	6.8653e-11	6.8654e-11	6.8654e-11
566	6.8652e-11	6.8653e-11	6.8653e-11
567	6.8651e-11	6.8652e-11	6.8652e-11
568	6.8649e-11	6.8651e-11	6.8651e-11
569	6.8648e-11	6.8649e-11	6.8649e-11
570	6.8647e-11	6.8648e-11	6.8648e-11
571	6.8646e-11	6.8647e-11	6.8647e-11
572	6.8645e-11	6.8646e-11	6.8646e-11
573	6.8644e-11	6.8645e-11	6.8645e-11
574	6.8642e-11	6.8644e-11	6.8644e-11
575	6.8641e-11	6.8642e-11	6.8642e-11
576	6.8640e-11	6.8641e-11	6.8641e-11
577	6.8639e-11	6.8640e-11	6.8640e-11
578	6.8638e-11	6.8639e-11	6.8639e-11
579	6.8637e-11	6.8638e-11	6.8638e-11
580	6.8635e-11	6.8637e-11	6.8637e-11
581	6.8634e-11	6.8635e-11	6.8635e-11
582	6.8633e-11	6.8634e-11	6.8634e-11
583	6.8632e-11	6.8633e-11	6.8633e-11
584	6.8631e-11	6.8632e-11	6.8632e-11

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x	$A(x)$	P_{v1}	P_{v2}
585	6.8630e-11	6.8631e-11	6.8631e-11
586	6.8628e-11	6.8630e-11	6.8630e-11
587	6.8627e-11	6.8628e-11	6.8628e-11
588	6.8626e-11	6.8627e-11	6.8627e-11
589	6.8625e-11	6.8626e-11	6.8626e-11
590	6.8624e-11	6.8625e-11	6.8625e-11
591	6.8623e-11	6.8624e-11	6.8624e-11
592	6.8621e-11	6.8623e-11	6.8623e-11
593	6.8620e-11	6.8621e-11	6.8621e-11
594	6.8619e-11	6.8620e-11	6.8620e-11
595	6.8618e-11	6.8619e-11	6.8619e-11
596	6.8617e-11	6.8618e-11	6.8618e-11
597	6.8616e-11	6.8617e-11	6.8617e-11
598	6.8614e-11	6.8616e-11	6.8616e-11
599	6.8613e-11	6.8614e-11	6.8614e-11
600	6.8612e-11	6.8613e-11	6.8613e-11
601	6.8611e-11	6.8612e-11	6.8612e-11
602	6.8610e-11	6.8611e-11	6.8611e-11
603	6.8609e-11	6.8610e-11	6.8610e-11
604	6.8607e-11	6.8609e-11	6.8609e-11
605	6.8606e-11	6.8607e-11	6.8607e-11
606	6.8605e-11	6.8606e-11	6.8606e-11
607	6.8604e-11	6.8605e-11	6.8605e-11
608	6.8603e-11	6.8604e-11	6.8604e-11
609	6.8602e-11	6.8603e-11	6.8603e-11
610	6.8600e-11	6.8602e-11	6.8602e-11
611	6.8599e-11	6.8600e-11	6.8600e-11
612	6.8598e-11	6.8599e-11	6.8599e-11
613	6.8597e-11	6.8598e-11	6.8598e-11
614	6.8596e-11	6.8597e-11	6.8597e-11
615	6.8594e-11	6.8596e-11	6.8596e-11
616	6.8593e-11	6.8595e-11	6.8595e-11
617	6.8592e-11	6.8593e-11	6.8593e-11
618	6.8591e-11	6.8592e-11	6.8592e-11
619	6.8590e-11	6.8591e-11	6.8591e-11
620	6.8589e-11	6.8590e-11	6.8590e-11
621	6.8587e-11	6.8589e-11	6.8589e-11
622	6.8586e-11	6.8588e-11	6.8588e-11
623	6.8585e-11	6.8586e-11	6.8586e-11
624	6.8584e-11	6.8585e-11	6.8585e-11

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x	$A(x)$	P_{v1}	P_{v2}
625	6.8583e-11	6.8584e-11	6.8584e-11
626	6.8582e-11	6.8583e-11	6.8583e-11
627	6.8580e-11	6.8582e-11	6.8582e-11
628	6.8579e-11	6.8581e-11	6.8581e-11
629	6.8578e-11	6.8579e-11	6.8579e-11
630	6.8577e-11	6.8578e-11	6.8578e-11
631	6.8576e-11	6.8577e-11	6.8577e-11
632	6.8575e-11	6.8576e-11	6.8576e-11
633	6.8573e-11	6.8575e-11	6.8575e-11
634	6.8572e-11	6.8574e-11	6.8574e-11
635	6.8571e-11	6.8572e-11	6.8572e-11
636	6.8570e-11	6.8571e-11	6.8571e-11
637	6.8569e-11	6.8570e-11	6.8570e-11
638	6.8568e-11	6.8569e-11	6.8569e-11
639	6.8566e-11	6.8568e-11	6.8568e-11
640	6.8565e-11	6.8567e-11	6.8567e-11
641	6.8564e-11	6.8565e-11	6.8565e-11
642	6.8563e-11	6.8564e-11	6.8564e-11
643	6.8562e-11	6.8563e-11	6.8563e-11
644	6.8561e-11	6.8562e-11	6.8562e-11
645	6.8559e-11	6.8561e-11	6.8561e-11
646	6.8558e-11	6.8560e-11	6.8560e-11
647	6.8557e-11	6.8558e-11	6.8558e-11
648	6.8556e-11	6.8557e-11	6.8557e-11
649	6.8555e-11	6.8556e-11	6.8556e-11
650	6.8554e-11	6.8555e-11	6.8555e-11
651	6.8552e-11	6.8554e-11	6.8554e-11
652	6.8551e-11	6.8553e-11	6.8553e-11
653	6.8550e-11	6.8551e-11	6.8551e-11
654	6.8549e-11	6.8550e-11	6.8550e-11
655	6.8548e-11	6.8549e-11	6.8549e-11
656	6.8547e-11	6.8548e-11	6.8548e-11
657	6.8545e-11	6.8547e-11	6.8547e-11
658	6.8544e-11	6.8546e-11	6.8546e-11
659	6.8543e-11	6.8544e-11	6.8544e-11
660	6.8542e-11	6.8543e-11	6.8543e-11
661	6.8541e-11	6.8542e-11	6.8542e-11
662	6.8540e-11	6.8541e-11	6.8541e-11
663	6.8538e-11	6.8540e-11	6.8540e-11
664	6.8537e-11	6.8539e-11	6.8539e-11

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x	$A(x)$	P_{v1}	P_{v2}
665	6.8536e-11	6.8537e-11	6.8537e-11
666	6.8535e-11	6.8536e-11	6.8536e-11
667	6.8534e-11	6.8535e-11	6.8535e-11
668	6.8533e-11	6.8534e-11	6.8534e-11
669	6.8531e-11	6.8533e-11	6.8533e-11
670	6.8530e-11	6.8532e-11	6.8532e-11
671	6.8529e-11	6.8530e-11	6.8530e-11
672	6.8528e-11	6.8529e-11	6.8529e-11
673	6.8527e-11	6.8528e-11	6.8528e-11
674	6.8526e-11	6.8527e-11	6.8527e-11
675	6.8524e-11	6.8526e-11	6.8526e-11
676	6.8523e-11	6.8525e-11	6.8525e-11
677	6.8522e-11	6.8523e-11	6.8523e-11
678	6.8521e-11	6.8522e-11	6.8522e-11
679	6.8520e-11	6.8521e-11	6.8521e-11
680	6.8519e-11	6.8520e-11	6.8520e-11
681	6.8517e-11	6.8519e-11	6.8519e-11
682	6.8516e-11	6.8518e-11	6.8518e-11
683	6.8515e-11	6.8516e-11	6.8516e-11
684	6.8514e-11	6.8515e-11	6.8515e-11
685	6.8513e-11	6.8514e-11	6.8514e-11
686	6.8512e-11	6.8513e-11	6.8513e-11
687	6.8510e-11	6.8512e-11	6.8512e-11
688	6.8509e-11	6.8511e-11	6.8511e-11
689	6.8508e-11	6.8509e-11	6.8509e-11
690	6.8507e-11	6.8508e-11	6.8508e-11
691	6.8506e-11	6.8507e-11	6.8507e-11
692	6.8505e-11	6.8506e-11	6.8506e-11
693	6.8503e-11	6.8505e-11	6.8505e-11
694	6.8502e-11	6.8504e-11	6.8504e-11
695	6.8501e-11	6.8503e-11	6.8503e-11
696	6.8500e-11	6.8501e-11	6.8501e-11
697	6.8499e-11	6.8500e-11	6.8500e-11
698	6.8498e-11	6.8499e-11	6.8499e-11
699	6.8496e-11	6.8498e-11	6.8498e-11
700	6.8495e-11	6.8497e-11	6.8497e-11
701	6.8494e-11	6.8496e-11	6.8496e-11
702	6.8493e-11	6.8494e-11	6.8494e-11
703	6.8492e-11	6.8493e-11	6.8493e-11
704	6.8491e-11	6.8492e-11	6.8492e-11

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x	$A(x)$	P_{v1}	P_{v2}
705	6.8489e-11	6.8491e-11	6.8491e-11
706	6.8488e-11	6.8490e-11	6.8490e-11
707	6.8487e-11	6.8489e-11	6.8489e-11
708	6.8486e-11	6.8487e-11	6.8487e-11
709	6.8485e-11	6.8486e-11	6.8486e-11
710	6.8484e-11	6.8485e-11	6.8485e-11
711	6.8482e-11	6.8484e-11	6.8484e-11
712	6.8481e-11	6.8483e-11	6.8483e-11
713	6.8480e-11	6.8482e-11	6.8482e-11
714	6.8479e-11	6.8480e-11	6.8480e-11
715	6.8478e-11	6.8479e-11	6.8479e-11
716	6.8477e-11	6.8478e-11	6.8478e-11
717	6.8475e-11	6.8477e-11	6.8477e-11
718	6.8474e-11	6.8476e-11	6.8476e-11
719	6.8473e-11	6.8475e-11	6.8475e-11
720	6.8472e-11	6.8473e-11	6.8473e-11
721	6.8471e-11	6.8472e-11	6.8472e-11
722	6.8470e-11	6.8471e-11	6.8471e-11
723	6.8468e-11	6.8470e-11	6.8470e-11
724	6.8467e-11	6.8469e-11	6.8469e-11
725	6.8466e-11	6.8468e-11	6.8468e-11
726	6.8465e-11	6.8466e-11	6.8466e-11
727	6.8464e-11	6.8465e-11	6.8465e-11
728	6.8462e-11	6.8464e-11	6.8464e-11
729	6.8461e-11	6.8463e-11	6.8463e-11
730	6.8460e-11	6.8462e-11	6.8462e-11
731	6.8459e-11	6.8461e-11	6.8461e-11
732	6.8458e-11	6.8459e-11	6.8459e-11
733	6.8457e-11	6.8458e-11	6.8458e-11
734	6.8455e-11	6.8457e-11	6.8457e-11
735	6.8454e-11	6.8456e-11	6.8456e-11
736	6.8453e-11	6.8455e-11	6.8455e-11
737	6.8452e-11	6.8454e-11	6.8454e-11
738	6.8451e-11	6.8452e-11	6.8452e-11
739	6.8450e-11	6.8451e-11	6.8451e-11
740	6.8448e-11	6.8450e-11	6.8450e-11
741	6.8447e-11	6.8449e-11	6.8449e-11
742	6.8446e-11	6.8448e-11	6.8448e-11
743	6.8445e-11	6.8447e-11	6.8447e-11
744	6.8444e-11	6.8445e-11	6.8445e-11

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x	$A(x)$	P_{v1}	P_{v2}
745	6.8443e-11	6.8444e-11	6.8444e-11
746	6.8441e-11	6.8443e-11	6.8443e-11
747	6.8440e-11	6.8442e-11	6.8442e-11
748	6.8439e-11	6.8441e-11	6.8441e-11
749	6.8438e-11	6.8440e-11	6.8440e-11
750	6.8437e-11	6.8438e-11	6.8438e-11
751	6.8436e-11	6.8437e-11	6.8437e-11
752	6.8434e-11	6.8436e-11	6.8436e-11
753	6.8433e-11	6.8435e-11	6.8435e-11
754	6.8432e-11	6.8434e-11	6.8434e-11
755	6.8431e-11	6.8433e-11	6.8433e-11
756	6.8430e-11	6.8431e-11	6.8431e-11
757	6.8429e-11	6.8430e-11	6.8430e-11
758	6.8427e-11	6.8429e-11	6.8429e-11
759	6.8426e-11	6.8428e-11	6.8428e-11
760	6.8425e-11	6.8427e-11	6.8427e-11
761	6.8424e-11	6.8426e-11	6.8426e-11
762	6.8423e-11	6.8425e-11	6.8425e-11
763	6.8422e-11	6.8423e-11	6.8423e-11
764	6.8420e-11	6.8422e-11	6.8422e-11
765	6.8419e-11	6.8421e-11	6.8421e-11
766	6.8418e-11	6.8420e-11	6.8420e-11
767	6.8417e-11	6.8419e-11	6.8419e-11
768	6.8416e-11	6.8418e-11	6.8418e-11
769	6.8415e-11	6.8416e-11	6.8416e-11
770	6.8413e-11	6.8415e-11	6.8415e-11
771	6.8412e-11	6.8414e-11	6.8414e-11
772	6.8411e-11	6.8413e-11	6.8413e-11
773	6.8410e-11	6.8412e-11	6.8412e-11
774	6.8409e-11	6.8411e-11	6.8411e-11
775	6.8408e-11	6.8409e-11	6.8409e-11
776	6.8406e-11	6.8408e-11	6.8408e-11
777	6.8405e-11	6.8407e-11	6.8407e-11
778	6.8404e-11	6.8406e-11	6.8406e-11
779	6.8403e-11	6.8405e-11	6.8405e-11
780	6.8402e-11	6.8404e-11	6.8404e-11
781	6.8401e-11	6.8402e-11	6.8402e-11
782	6.8399e-11	6.8401e-11	6.8401e-11
783	6.8398e-11	6.8400e-11	6.8400e-11
784	6.8397e-11	6.8399e-11	6.8399e-11

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x	$A(x)$	P_{v1}	P_{v2}
785	6.8396e-11	6.8398e-11	6.8398e-11
786	6.8395e-11	6.8397e-11	6.8397e-11
787	6.8394e-11	6.8395e-11	6.8395e-11
788	6.8392e-11	6.8394e-11	6.8394e-11
789	6.8391e-11	6.8393e-11	6.8393e-11
790	6.8390e-11	6.8392e-11	6.8392e-11
791	6.8389e-11	6.8391e-11	6.8391e-11
792	6.8388e-11	6.8390e-11	6.8390e-11
793	6.8387e-11	6.8388e-11	6.8388e-11
794	6.8385e-11	6.8387e-11	6.8387e-11
795	6.8384e-11	6.8386e-11	6.8386e-11
796	6.8383e-11	6.8385e-11	6.8385e-11
797	6.8382e-11	6.8384e-11	6.8384e-11
798	6.8381e-11	6.8383e-11	6.8383e-11
799	6.8380e-11	6.8381e-11	6.8381e-11
800	6.8378e-11	6.8380e-11	6.8380e-11
801	6.8377e-11	6.8379e-11	6.8379e-11
802	6.8376e-11	6.8378e-11	6.8378e-11
803	6.8375e-11	6.8377e-11	6.8377e-11
804	6.8374e-11	6.8376e-11	6.8376e-11
805	6.8373e-11	6.8374e-11	6.8374e-11
806	6.8371e-11	6.8373e-11	6.8373e-11
807	6.8370e-11	6.8372e-11	6.8372e-11
808	6.8369e-11	6.8371e-11	6.8371e-11
809	6.8368e-11	6.8370e-11	6.8370e-11
810	6.8367e-11	6.8369e-11	6.8369e-11
811	6.8366e-11	6.8368e-11	6.8368e-11
812	6.8364e-11	6.8366e-11	6.8366e-11
813	6.8363e-11	6.8365e-11	6.8365e-11
814	6.8362e-11	6.8364e-11	6.8364e-11
815	6.8361e-11	6.8363e-11	6.8363e-11
816	6.8360e-11	6.8362e-11	6.8362e-11
817	6.8359e-11	6.8361e-11	6.8361e-11
818	6.8357e-11	6.8359e-11	6.8359e-11
819	6.8356e-11	6.8358e-11	6.8358e-11
820	6.8355e-11	6.8357e-11	6.8357e-11
821	6.8354e-11	6.8356e-11	6.8356e-11
822	6.8353e-11	6.8355e-11	6.8355e-11
823	6.8352e-11	6.8354e-11	6.8354e-11
824	6.8350e-11	6.8352e-11	6.8352e-11

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x	$A(x)$	P_{v1}	P_{v2}
825	6.8349e-11	6.8351e-11	6.8351e-11
826	6.8348e-11	6.8350e-11	6.8350e-11
827	6.8347e-11	6.8349e-11	6.8349e-11
828	6.8346e-11	6.8348e-11	6.8348e-11
829	6.8345e-11	6.8347e-11	6.8347e-11
830	6.8343e-11	6.8345e-11	6.8345e-11
831	6.8342e-11	6.8344e-11	6.8344e-11
832	6.8341e-11	6.8343e-11	6.8343e-11
833	6.8340e-11	6.8342e-11	6.8342e-11
834	6.8339e-11	6.8341e-11	6.8341e-11
835	6.8338e-11	6.8340e-11	6.8340e-11
836	6.8336e-11	6.8338e-11	6.8338e-11
837	6.8335e-11	6.8337e-11	6.8337e-11
838	6.8334e-11	6.8336e-11	6.8336e-11
839	6.8333e-11	6.8335e-11	6.8335e-11
840	6.8332e-11	6.8334e-11	6.8334e-11
841	6.8331e-11	6.8333e-11	6.8333e-11
842	6.8329e-11	6.8331e-11	6.8331e-11
843	6.8328e-11	6.8330e-11	6.8330e-11
844	6.8327e-11	6.8329e-11	6.8329e-11
845	6.8326e-11	6.8328e-11	6.8328e-11
846	6.8325e-11	6.8327e-11	6.8327e-11
847	6.8324e-11	6.8326e-11	6.8326e-11
848	6.8322e-11	6.8324e-11	6.8324e-11
849	6.8321e-11	6.8323e-11	6.8323e-11
850	6.8320e-11	6.8322e-11	6.8322e-11
851	6.8319e-11	6.8321e-11	6.8321e-11
852	6.8318e-11	6.8320e-11	6.8320e-11
853	6.8317e-11	6.8319e-11	6.8319e-11
854	6.8315e-11	6.8318e-11	6.8318e-11
855	6.8314e-11	6.8316e-11	6.8316e-11
856	6.8313e-11	6.8315e-11	6.8315e-11
857	6.8312e-11	6.8314e-11	6.8314e-11
858	6.8311e-11	6.8313e-11	6.8313e-11
859	6.8310e-11	6.8312e-11	6.8312e-11
860	6.8308e-11	6.8311e-11	6.8311e-11
861	6.8307e-11	6.8309e-11	6.8309e-11
862	6.8306e-11	6.8308e-11	6.8308e-11
863	6.8305e-11	6.8307e-11	6.8307e-11
864	6.8304e-11	6.8306e-11	6.8306e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
865	6.8303e-11	6.8305e-11	6.8305e-11
866	6.8301e-11	6.8304e-11	6.8304e-11
867	6.8300e-11	6.8302e-11	6.8302e-11
868	6.8299e-11	6.8301e-11	6.8301e-11
869	6.8298e-11	6.8300e-11	6.8300e-11
870	6.8297e-11	6.8299e-11	6.8299e-11
871	6.8296e-11	6.8298e-11	6.8298e-11
872	6.8294e-11	6.8297e-11	6.8297e-11
873	6.8293e-11	6.8295e-11	6.8295e-11
874	6.8292e-11	6.8294e-11	6.8294e-11
875	6.8291e-11	6.8293e-11	6.8293e-11
876	6.8290e-11	6.8292e-11	6.8292e-11
877	6.8289e-11	6.8291e-11	6.8291e-11
878	6.8287e-11	6.8290e-11	6.8290e-11
879	6.8286e-11	6.8288e-11	6.8288e-11
880	6.8285e-11	6.8287e-11	6.8287e-11
881	6.8284e-11	6.8286e-11	6.8286e-11
882	6.8283e-11	6.8285e-11	6.8285e-11
883	6.8282e-11	6.8284e-11	6.8284e-11
884	6.8280e-11	6.8283e-11	6.8283e-11
885	6.8279e-11	6.8281e-11	6.8281e-11
886	6.8278e-11	6.8280e-11	6.8280e-11
887	6.8277e-11	6.8279e-11	6.8279e-11
888	6.8276e-11	6.8278e-11	6.8278e-11
889	6.8275e-11	6.8277e-11	6.8277e-11
890	6.8273e-11	6.8276e-11	6.8276e-11
891	6.8272e-11	6.8275e-11	6.8275e-11
892	6.8271e-11	6.8273e-11	6.8273e-11
893	6.8270e-11	6.8272e-11	6.8272e-11
894	6.8269e-11	6.8271e-11	6.8271e-11
895	6.8268e-11	6.8270e-11	6.8270e-11
896	6.8266e-11	6.8269e-11	6.8269e-11
897	6.8265e-11	6.8268e-11	6.8268e-11
898	6.8264e-11	6.8266e-11	6.8266e-11
899	6.8263e-11	6.8265e-11	6.8265e-11
900	6.8262e-11	6.8264e-11	6.8264e-11
901	6.8261e-11	6.8263e-11	6.8263e-11
902	6.8259e-11	6.8262e-11	6.8262e-11
903	6.8258e-11	6.8261e-11	6.8261e-11
904	6.8257e-11	6.8259e-11	6.8259e-11

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x	$A(x)$	P_{v1}	P_{v2}
905	6.8256e-11	6.8258e-11	6.8258e-11
906	6.8255e-11	6.8257e-11	6.8257e-11
907	6.8254e-11	6.8256e-11	6.8256e-11
908	6.8252e-11	6.8255e-11	6.8255e-11
909	6.8251e-11	6.8254e-11	6.8254e-11
910	6.8250e-11	6.8252e-11	6.8252e-11
911	6.8249e-11	6.8251e-11	6.8251e-11
912	6.8248e-11	6.8250e-11	6.8250e-11
913	6.8247e-11	6.8249e-11	6.8249e-11
914	6.8245e-11	6.8248e-11	6.8248e-11
915	6.8244e-11	6.8247e-11	6.8247e-11
916	6.8243e-11	6.8245e-11	6.8245e-11
917	6.8242e-11	6.8244e-11	6.8244e-11
918	6.8241e-11	6.8243e-11	6.8243e-11
919	6.8240e-11	6.8242e-11	6.8242e-11
920	6.8238e-11	6.8241e-11	6.8241e-11
921	6.8237e-11	6.8240e-11	6.8240e-11
922	6.8236e-11	6.8238e-11	6.8238e-11
923	6.8235e-11	6.8237e-11	6.8237e-11
924	6.8234e-11	6.8236e-11	6.8236e-11
925	6.8233e-11	6.8235e-11	6.8235e-11
926	6.8231e-11	6.8234e-11	6.8234e-11
927	6.8230e-11	6.8233e-11	6.8233e-11
928	6.8229e-11	6.8232e-11	6.8232e-11
929	6.8228e-11	6.8230e-11	6.8230e-11
930	6.8227e-11	6.8229e-11	6.8229e-11
931	6.8226e-11	6.8228e-11	6.8228e-11
932	6.8224e-11	6.8227e-11	6.8227e-11
933	6.8223e-11	6.8226e-11	6.8226e-11
934	6.8222e-11	6.8225e-11	6.8225e-11
935	6.8221e-11	6.8223e-11	6.8223e-11
936	6.8220e-11	6.8222e-11	6.8222e-11
937	6.8219e-11	6.8221e-11	6.8221e-11
938	6.8217e-11	6.8220e-11	6.8220e-11
939	6.8216e-11	6.8219e-11	6.8219e-11
940	6.8215e-11	6.8218e-11	6.8218e-11
941	6.8214e-11	6.8216e-11	6.8216e-11
942	6.8213e-11	6.8215e-11	6.8215e-11
943	6.8212e-11	6.8214e-11	6.8214e-11
944	6.8210e-11	6.8213e-11	6.8213e-11

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x	$A(x)$	P_{v1}	P_{v2}
945	6.8209e-11	6.8212e-11	6.8212e-11
946	6.8208e-11	6.8211e-11	6.8211e-11
947	6.8207e-11	6.8209e-11	6.8209e-11
948	6.8206e-11	6.8208e-11	6.8208e-11
949	6.8205e-11	6.8207e-11	6.8207e-11
950	6.8203e-11	6.8206e-11	6.8206e-11
951	6.8202e-11	6.8205e-11	6.8205e-11
952	6.8201e-11	6.8204e-11	6.8204e-11
953	6.8200e-11	6.8202e-11	6.8202e-11
954	6.8199e-11	6.8201e-11	6.8201e-11
955	6.8198e-11	6.8200e-11	6.8200e-11
956	6.8196e-11	6.8199e-11	6.8199e-11
957	6.8195e-11	6.8198e-11	6.8198e-11
958	6.8194e-11	6.8197e-11	6.8197e-11
959	6.8193e-11	6.8196e-11	6.8196e-11
960	6.8192e-11	6.8194e-11	6.8194e-11
961	6.8191e-11	6.8193e-11	6.8193e-11
962	6.8189e-11	6.8192e-11	6.8192e-11
963	6.8188e-11	6.8191e-11	6.8191e-11
964	6.8187e-11	6.8190e-11	6.8190e-11
965	6.8186e-11	6.8189e-11	6.8189e-11
966	6.8185e-11	6.8187e-11	6.8187e-11
967	6.8184e-11	6.8186e-11	6.8186e-11
968	6.8182e-11	6.8185e-11	6.8185e-11
969	6.8181e-11	6.8184e-11	6.8184e-11
970	6.8180e-11	6.8183e-11	6.8183e-11
971	6.8179e-11	6.8182e-11	6.8182e-11
972	6.8178e-11	6.8180e-11	6.8180e-11
973	6.8177e-11	6.8179e-11	6.8179e-11
974	6.8175e-11	6.8178e-11	6.8178e-11
975	6.8174e-11	6.8177e-11	6.8177e-11
976	6.8173e-11	6.8176e-11	6.8176e-11
977	6.8172e-11	6.8175e-11	6.8175e-11
978	6.8171e-11	6.8173e-11	6.8173e-11
979	6.8170e-11	6.8172e-11	6.8172e-11
980	6.8168e-11	6.8171e-11	6.8171e-11
981	6.8167e-11	6.8170e-11	6.8170e-11
982	6.8166e-11	6.8169e-11	6.8169e-11
983	6.8165e-11	6.8168e-11	6.8168e-11
984	6.8164e-11	6.8166e-11	6.8166e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
985	6.8163e-11	6.8165e-11	6.8165e-11
986	6.8162e-11	6.8164e-11	6.8164e-11
987	6.8160e-11	6.8163e-11	6.8163e-11
988	6.8159e-11	6.8162e-11	6.8162e-11
989	6.8158e-11	6.8161e-11	6.8161e-11
990	6.8157e-11	6.8160e-11	6.8160e-11
991	6.8156e-11	6.8158e-11	6.8158e-11
992	6.8155e-11	6.8157e-11	6.8157e-11
993	6.8153e-11	6.8156e-11	6.8156e-11
994	6.8152e-11	6.8155e-11	6.8155e-11
995	6.8151e-11	6.8154e-11	6.8154e-11
996	6.8150e-11	6.8153e-11	6.8153e-11
997	6.8149e-11	6.8151e-11	6.8151e-11
998	6.8148e-11	6.8150e-11	6.8150e-11
999	6.8146e-11	6.8149e-11	6.8149e-11
1000	6.8145e-11	6.8148e-11	6.8148e-11

Table B.7.15: Output for Problem 7.3.1-DIST-C

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	9.9999e-11	9.9993e-11	9.9993e-11
2	9.9999e-11	9.9998e-11	9.9998e-11
3	9.9999e-11	9.9997e-11	9.9997e-11
4	9.9999e-11	9.9996e-11	9.9996e-11
5	9.9999e-11	9.9995e-11	9.9995e-11
6	9.9999e-11	9.9995e-11	9.9995e-11
7	9.9999e-11	9.9994e-11	9.9994e-11
8	9.9999e-11	9.9993e-11	9.9993e-11
9	9.9999e-11	9.9993e-11	9.9993e-11
10	9.9999e-11	9.9992e-11	9.9992e-11
11	9.9999e-11	9.9991e-11	9.9991e-11
12	9.9999e-11	9.9991e-11	9.9991e-11
13	9.9999e-11	9.9990e-11	9.9990e-11
14	9.9999e-11	9.9989e-11	9.9989e-11
15	9.9999e-11	9.9989e-11	9.9989e-11
16	9.9999e-11	9.9988e-11	9.9988e-11
17	9.9999e-11	9.9987e-11	9.9987e-11
18	9.9999e-11	9.9986e-11	9.9986e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
19	9.9999e-11	9.9986e-11	9.9986e-11
20	9.9999e-11	9.9985e-11	9.9985e-11
21	9.9999e-11	9.9984e-11	9.9984e-11
22	9.9999e-11	9.9984e-11	9.9984e-11
23	9.9999e-11	9.9983e-11	9.9983e-11
24	9.9999e-11	9.9982e-11	9.9982e-11
25	9.9999e-11	9.9982e-11	9.9982e-11
26	9.9999e-11	9.9981e-11	9.9981e-11
27	9.9999e-11	9.9980e-11	9.9980e-11
28	9.9999e-11	9.9979e-11	9.9979e-11
29	9.9999e-11	9.9979e-11	9.9979e-11
30	9.9999e-11	9.9978e-11	9.9978e-11
31	9.9999e-11	9.9977e-11	9.9977e-11
32	9.9999e-11	9.9977e-11	9.9977e-11
33	9.9999e-11	9.9976e-11	9.9976e-11
34	9.9999e-11	9.9975e-11	9.9975e-11
35	9.9999e-11	9.9975e-11	9.9975e-11
36	9.9999e-11	9.9974e-11	9.9974e-11
37	9.9999e-11	9.9973e-11	9.9973e-11
38	9.9999e-11	9.9973e-11	9.9973e-11
39	9.9999e-11	9.9972e-11	9.9972e-11
40	9.9999e-11	9.9971e-11	9.9971e-11
41	9.9999e-11	9.9970e-11	9.9970e-11
42	9.9999e-11	9.9970e-11	9.9970e-11
43	9.9999e-11	9.9969e-11	9.9969e-11
44	9.9999e-11	9.9968e-11	9.9968e-11
45	9.9999e-11	9.9968e-11	9.9968e-11
46	9.9999e-11	9.9967e-11	9.9967e-11
47	9.9999e-11	9.9966e-11	9.9966e-11
48	9.9999e-11	9.9966e-11	9.9966e-11
49	9.9999e-11	9.9965e-11	9.9965e-11
50	9.9999e-11	9.9964e-11	9.9964e-11
51	9.9999e-11	9.9964e-11	9.9964e-11
52	9.9999e-11	9.9963e-11	9.9963e-11
53	9.9999e-11	9.9962e-11	9.9962e-11
54	9.9999e-11	9.9961e-11	9.9961e-11
55	9.9999e-11	9.9961e-11	9.9961e-11
56	9.9999e-11	9.9960e-11	9.9960e-11
57	9.9999e-11	9.9959e-11	9.9959e-11
58	9.9999e-11	9.9959e-11	9.9959e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
59	9.9999e-11	9.9958e-11	9.9958e-11
60	9.9999e-11	9.9957e-11	9.9957e-11
61	9.9999e-11	9.9957e-11	9.9957e-11
62	9.9999e-11	9.9956e-11	9.9956e-11
63	9.9999e-11	9.9955e-11	9.9955e-11
64	9.9999e-11	9.9954e-11	9.9954e-11
65	9.9999e-11	9.9954e-11	9.9954e-11
66	9.9999e-11	9.9953e-11	9.9953e-11
67	9.9999e-11	9.9952e-11	9.9952e-11
68	9.9999e-11	9.9952e-11	9.9952e-11
69	9.9999e-11	9.9951e-11	9.9951e-11
70	9.9999e-11	9.9950e-11	9.9950e-11
71	9.9999e-11	9.9950e-11	9.9950e-11
72	9.9999e-11	9.9949e-11	9.9949e-11
73	9.9999e-11	9.9948e-11	9.9948e-11
74	9.9999e-11	9.9948e-11	9.9948e-11
75	9.9999e-11	9.9947e-11	9.9947e-11
76	9.9999e-11	9.9946e-11	9.9946e-11
77	9.9999e-11	9.9945e-11	9.9945e-11
78	9.9999e-11	9.9945e-11	9.9945e-11
79	9.9999e-11	9.9944e-11	9.9944e-11
80	9.9999e-11	9.9943e-11	9.9943e-11
81	9.9999e-11	9.9943e-11	9.9943e-11
82	9.9999e-11	9.9942e-11	9.9942e-11
83	9.9999e-11	9.9941e-11	9.9941e-11
84	9.9999e-11	9.9941e-11	9.9941e-11
85	9.9999e-11	9.9940e-11	9.9940e-11
86	9.9999e-11	9.9939e-11	9.9939e-11
87	9.9999e-11	9.9938e-11	9.9938e-11
88	9.9999e-11	9.9938e-11	9.9938e-11
89	9.9999e-11	9.9937e-11	9.9937e-11
90	9.9999e-11	9.9936e-11	9.9936e-11
91	9.9999e-11	9.9936e-11	9.9936e-11
92	9.9999e-11	9.9935e-11	9.9935e-11
93	9.9999e-11	9.9934e-11	9.9934e-11
94	9.9999e-11	9.9934e-11	9.9934e-11
95	9.9999e-11	9.9933e-11	9.9933e-11
96	9.9999e-11	9.9932e-11	9.9932e-11
97	9.9999e-11	9.9932e-11	9.9932e-11
98	9.9999e-11	9.9931e-11	9.9931e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
99	9.9999e-11	9.9930e-11	9.9930e-11
100	9.9999e-11	9.9929e-11	9.9929e-11
101	9.9999e-11	9.9929e-11	9.9929e-11
102	9.9999e-11	9.9928e-11	9.9928e-11
103	9.9999e-11	9.9927e-11	9.9927e-11
104	9.9999e-11	9.9927e-11	9.9927e-11
105	9.9999e-11	9.9926e-11	9.9926e-11
106	9.9999e-11	9.9925e-11	9.9925e-11
107	9.9999e-11	9.9925e-11	9.9925e-11
108	9.9999e-11	9.9924e-11	9.9924e-11
109	9.9999e-11	9.9923e-11	9.9923e-11
110	9.9999e-11	9.9922e-11	9.9922e-11
111	9.9999e-11	9.9922e-11	9.9922e-11
112	9.9999e-11	9.9921e-11	9.9921e-11
113	9.9999e-11	9.9920e-11	9.9920e-11
114	9.9999e-11	9.9920e-11	9.9920e-11
115	9.9999e-11	9.9919e-11	9.9919e-11
116	9.9999e-11	9.9918e-11	9.9918e-11
117	9.9999e-11	9.9918e-11	9.9918e-11
118	9.9999e-11	9.9917e-11	9.9917e-11
119	9.9999e-11	9.9916e-11	9.9916e-11
120	9.9999e-11	9.9915e-11	9.9915e-11
121	9.9999e-11	9.9915e-11	9.9915e-11
122	9.9999e-11	9.9914e-11	9.9914e-11
123	9.9999e-11	9.9913e-11	9.9913e-11
124	9.9999e-11	9.9913e-11	9.9913e-11
125	9.9999e-11	9.9912e-11	9.9912e-11
126	9.9999e-11	9.9911e-11	9.9911e-11
127	9.9999e-11	9.9911e-11	9.9911e-11
128	9.9999e-11	9.9910e-11	9.9910e-11
129	9.9999e-11	9.9909e-11	9.9909e-11
130	9.9999e-11	9.9909e-11	9.9909e-11
131	9.9999e-11	9.9908e-11	9.9908e-11
132	9.9999e-11	9.9907e-11	9.9907e-11
133	9.9999e-11	9.9906e-11	9.9906e-11
134	9.9999e-11	9.9906e-11	9.9906e-11
135	9.9999e-11	9.9905e-11	9.9905e-11
136	9.9999e-11	9.9904e-11	9.9904e-11
137	9.9999e-11	9.9904e-11	9.9904e-11
138	9.9999e-11	9.9903e-11	9.9903e-11

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x	$A(x)$	P_{v1}	P_{v2}
139	9.9999e-11	9.9902e-11	9.9902e-11
140	9.9999e-11	9.9902e-11	9.9902e-11
141	9.9999e-11	9.9901e-11	9.9901e-11
142	9.9999e-11	9.9900e-11	9.9900e-11
143	9.9999e-11	9.9899e-11	9.9899e-11
144	9.9999e-11	9.9899e-11	9.9899e-11
145	9.9999e-11	9.9898e-11	9.9898e-11
146	9.9999e-11	9.9897e-11	9.9897e-11
147	9.9999e-11	9.9897e-11	9.9897e-11
148	9.9999e-11	9.9896e-11	9.9896e-11
149	9.9999e-11	9.9895e-11	9.9895e-11
150	9.9999e-11	9.9895e-11	9.9895e-11
151	9.9999e-11	9.9894e-11	9.9894e-11
152	9.9999e-11	9.9893e-11	9.9893e-11
153	9.9999e-11	9.9892e-11	9.9892e-11
154	9.9999e-11	9.9892e-11	9.9892e-11
155	9.9999e-11	9.9891e-11	9.9891e-11
156	9.9999e-11	9.9890e-11	9.9890e-11
157	9.9999e-11	9.9890e-11	9.9890e-11
158	9.9999e-11	9.9889e-11	9.9889e-11
159	9.9999e-11	9.9888e-11	9.9888e-11
160	9.9999e-11	9.9888e-11	9.9888e-11
161	9.9999e-11	9.9887e-11	9.9887e-11
162	9.9999e-11	9.9886e-11	9.9886e-11
163	9.9999e-11	9.9885e-11	9.9885e-11
164	9.9999e-11	9.9885e-11	9.9885e-11
165	9.9999e-11	9.9884e-11	9.9884e-11
166	9.9999e-11	9.9883e-11	9.9883e-11
167	9.9999e-11	9.9883e-11	9.9883e-11
168	9.9999e-11	9.9882e-11	9.9882e-11
169	9.9999e-11	9.9881e-11	9.9881e-11
170	9.9999e-11	9.9881e-11	9.9881e-11
171	9.9999e-11	9.9880e-11	9.9880e-11
172	9.9999e-11	9.9879e-11	9.9879e-11
173	9.9999e-11	9.9878e-11	9.9878e-11
174	9.9999e-11	9.9878e-11	9.9878e-11
175	9.9999e-11	9.9877e-11	9.9877e-11
176	9.9999e-11	9.9876e-11	9.9876e-11
177	9.9999e-11	9.9876e-11	9.9876e-11
178	9.9999e-11	9.9875e-11	9.9875e-11

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x	$A(x)$	P_{v1}	P_{v2}
179	9.9999e-11	9.9874e-11	9.9874e-11
180	9.9999e-11	9.9874e-11	9.9874e-11
181	9.9999e-11	9.9873e-11	9.9873e-11
182	9.9999e-11	9.9872e-11	9.9872e-11
183	9.9999e-11	9.9871e-11	9.9871e-11
184	9.9999e-11	9.9871e-11	9.9871e-11
185	9.9999e-11	9.9870e-11	9.9870e-11
186	9.9999e-11	9.9869e-11	9.9869e-11
187	9.9999e-11	9.9869e-11	9.9869e-11
188	9.9999e-11	9.9868e-11	9.9868e-11
189	9.9999e-11	9.9867e-11	9.9867e-11
190	9.9999e-11	9.9867e-11	9.9867e-11
191	9.9999e-11	9.9866e-11	9.9866e-11
192	9.9999e-11	9.9865e-11	9.9865e-11
193	9.9999e-11	9.9864e-11	9.9864e-11
194	9.9999e-11	9.9864e-11	9.9864e-11
195	9.9999e-11	9.9863e-11	9.9863e-11
196	9.9999e-11	9.9862e-11	9.9862e-11
197	9.9999e-11	9.9862e-11	9.9862e-11
198	9.9999e-11	9.9861e-11	9.9861e-11
199	9.9999e-11	9.9860e-11	9.9860e-11
200	9.9999e-11	9.9860e-11	9.9860e-11
201	9.9999e-11	9.9859e-11	9.9859e-11
202	9.9999e-11	9.9858e-11	9.9858e-11
203	9.9999e-11	9.9857e-11	9.9857e-11
204	9.9999e-11	9.9857e-11	9.9857e-11
205	9.9999e-11	9.9856e-11	9.9856e-11
206	9.9999e-11	9.9855e-11	9.9855e-11
207	9.9999e-11	9.9855e-11	9.9855e-11
208	9.9999e-11	9.9854e-11	9.9854e-11
209	9.9999e-11	9.9853e-11	9.9853e-11
210	9.9999e-11	9.9853e-11	9.9853e-11
211	9.9999e-11	9.9852e-11	9.9852e-11
212	9.9999e-11	9.9851e-11	9.9851e-11
213	9.9999e-11	9.9850e-11	9.9850e-11
214	9.9999e-11	9.9850e-11	9.9850e-11
215	9.9999e-11	9.9849e-11	9.9849e-11
216	9.9999e-11	9.9848e-11	9.9848e-11
217	9.9999e-11	9.9848e-11	9.9848e-11
218	9.9999e-11	9.9847e-11	9.9847e-11

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x	$A(x)$	P_{v1}	P_{v2}
219	9.9999e-11	9.9846e-11	9.9846e-11
220	9.9999e-11	9.9846e-11	9.9846e-11
221	9.9999e-11	9.9845e-11	9.9845e-11
222	9.9999e-11	9.9844e-11	9.9844e-11
223	9.9999e-11	9.9843e-11	9.9843e-11
224	9.9999e-11	9.9843e-11	9.9843e-11
225	9.9999e-11	9.9842e-11	9.9842e-11
226	9.9999e-11	9.9841e-11	9.9841e-11
227	9.9999e-11	9.9841e-11	9.9841e-11
228	9.9999e-11	9.9840e-11	9.9840e-11
229	9.9999e-11	9.9839e-11	9.9839e-11
230	9.9999e-11	9.9839e-11	9.9839e-11
231	9.9999e-11	9.9838e-11	9.9838e-11
232	9.9999e-11	9.9837e-11	9.9837e-11
233	9.9999e-11	9.9836e-11	9.9836e-11
234	9.9999e-11	9.9836e-11	9.9836e-11
235	9.9999e-11	9.9835e-11	9.9835e-11
236	9.9999e-11	9.9834e-11	9.9834e-11
237	9.9999e-11	9.9834e-11	9.9834e-11
238	9.9999e-11	9.9833e-11	9.9833e-11
239	9.9999e-11	9.9832e-11	9.9832e-11
240	9.9999e-11	9.9832e-11	9.9832e-11
241	9.9999e-11	9.9831e-11	9.9831e-11
242	9.9999e-11	9.9830e-11	9.9830e-11
243	9.9999e-11	9.9829e-11	9.9829e-11
244	9.9999e-11	9.9829e-11	9.9829e-11
245	9.9999e-11	9.9828e-11	9.9828e-11
246	9.9999e-11	9.9827e-11	9.9827e-11
247	9.9999e-11	9.9827e-11	9.9827e-11
248	9.9999e-11	9.9826e-11	9.9826e-11
249	9.9999e-11	9.9825e-11	9.9825e-11
250	9.9999e-11	9.9825e-11	9.9825e-11
251	9.9999e-11	9.9824e-11	9.9824e-11
252	9.9999e-11	9.9823e-11	9.9823e-11
253	9.9999e-11	9.9822e-11	9.9822e-11
254	9.9999e-11	9.9822e-11	9.9822e-11
255	9.9999e-11	9.9821e-11	9.9821e-11
256	9.9999e-11	9.9820e-11	9.9820e-11
257	9.9999e-11	9.9820e-11	9.9820e-11
258	9.9999e-11	9.9819e-11	9.9819e-11

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x	$A(x)$	P_{v1}	P_{v2}
259	9.9999e-11	9.9818e-11	9.9818e-11
260	9.9999e-11	9.9818e-11	9.9818e-11
261	9.9999e-11	9.9817e-11	9.9817e-11
262	9.9999e-11	9.9816e-11	9.9816e-11
263	9.9999e-11	9.9815e-11	9.9815e-11
264	9.9999e-11	9.9815e-11	9.9815e-11
265	9.9999e-11	9.9814e-11	9.9814e-11
266	9.9999e-11	9.9813e-11	9.9813e-11
267	9.9999e-11	9.9813e-11	9.9813e-11
268	9.9999e-11	9.9812e-11	9.9812e-11
269	9.9999e-11	9.9811e-11	9.9811e-11
270	9.9999e-11	9.9810e-11	9.9810e-11
271	9.9999e-11	9.9810e-11	9.9810e-11
272	9.9999e-11	9.9809e-11	9.9809e-11
273	9.9999e-11	9.9808e-11	9.9808e-11
274	9.9999e-11	9.9808e-11	9.9808e-11
275	9.9999e-11	9.9807e-11	9.9807e-11
276	9.9999e-11	9.9806e-11	9.9806e-11
277	9.9999e-11	9.9806e-11	9.9806e-11
278	9.9999e-11	9.9805e-11	9.9805e-11
279	9.9999e-11	9.9804e-11	9.9804e-11
280	9.9999e-11	9.9803e-11	9.9803e-11
281	9.9999e-11	9.9803e-11	9.9803e-11
282	9.9999e-11	9.9802e-11	9.9802e-11
283	9.9999e-11	9.9801e-11	9.9801e-11
284	9.9999e-11	9.9801e-11	9.9801e-11
285	9.9999e-11	9.9800e-11	9.9800e-11
286	9.9999e-11	9.9799e-11	9.9799e-11
287	9.9999e-11	9.9799e-11	9.9799e-11
288	9.9999e-11	9.9798e-11	9.9798e-11
289	9.9999e-11	9.9797e-11	9.9797e-11
290	9.9999e-11	9.9796e-11	9.9796e-11
291	9.9999e-11	9.9796e-11	9.9796e-11
292	9.9999e-11	9.9795e-11	9.9795e-11
293	9.9999e-11	9.9794e-11	9.9794e-11
294	9.9999e-11	9.9794e-11	9.9794e-11
295	9.9999e-11	9.9793e-11	9.9793e-11
296	9.9999e-11	9.9792e-11	9.9792e-11
297	9.9999e-11	9.9792e-11	9.9792e-11
298	9.9999e-11	9.9791e-11	9.9791e-11

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x	$A(x)$	P_{v1}	P_{v2}
299	9.9999e-11	9.9790e-11	9.9790e-11
300	9.9999e-11	9.9789e-11	9.9789e-11
301	9.9999e-11	9.9789e-11	9.9789e-11
302	9.9999e-11	9.9788e-11	9.9788e-11
303	9.9999e-11	9.9787e-11	9.9787e-11
304	9.9999e-11	9.9787e-11	9.9787e-11
305	9.9999e-11	9.9786e-11	9.9786e-11
306	9.9999e-11	9.9785e-11	9.9785e-11
307	9.9999e-11	9.9784e-11	9.9784e-11
308	9.9999e-11	9.9784e-11	9.9784e-11
309	9.9999e-11	9.9783e-11	9.9783e-11
310	9.9999e-11	9.9782e-11	9.9782e-11
311	9.9999e-11	9.9782e-11	9.9782e-11
312	9.9999e-11	9.9781e-11	9.9781e-11
313	9.9999e-11	9.9780e-11	9.9780e-11
314	9.9999e-11	9.9780e-11	9.9780e-11
315	9.9999e-11	9.9779e-11	9.9779e-11
316	9.9999e-11	9.9778e-11	9.9778e-11
317	9.9999e-11	9.9777e-11	9.9777e-11
318	9.9999e-11	9.9777e-11	9.9777e-11
319	9.9999e-11	9.9776e-11	9.9776e-11
320	9.9999e-11	9.9775e-11	9.9775e-11
321	9.9999e-11	9.9775e-11	9.9775e-11
322	9.9999e-11	9.9774e-11	9.9774e-11
323	9.9999e-11	9.9773e-11	9.9773e-11
324	9.9999e-11	9.9772e-11	9.9772e-11
325	9.9999e-11	9.9772e-11	9.9772e-11
326	9.9999e-11	9.9771e-11	9.9771e-11
327	9.9999e-11	9.9770e-11	9.9770e-11
328	9.9999e-11	9.9770e-11	9.9770e-11
329	9.9999e-11	9.9769e-11	9.9769e-11
330	9.9999e-11	9.9768e-11	9.9768e-11
331	9.9999e-11	9.9768e-11	9.9768e-11
332	9.9999e-11	9.9767e-11	9.9767e-11
333	9.9999e-11	9.9766e-11	9.9766e-11
334	9.9999e-11	9.9765e-11	9.9765e-11
335	9.9999e-11	9.9765e-11	9.9765e-11
336	9.9999e-11	9.9764e-11	9.9764e-11
337	9.9999e-11	9.9763e-11	9.9763e-11
338	9.9999e-11	9.9763e-11	9.9763e-11

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x	$A(x)$	P_{v1}	P_{v2}
339	9.9999e-11	9.9762e-11	9.9762e-11
340	9.9999e-11	9.9761e-11	9.9761e-11
341	9.9999e-11	9.9761e-11	9.9761e-11
342	9.9999e-11	9.9760e-11	9.9760e-11
343	9.9999e-11	9.9759e-11	9.9759e-11
344	9.9999e-11	9.9758e-11	9.9758e-11
345	9.9999e-11	9.9758e-11	9.9758e-11
346	9.9999e-11	9.9757e-11	9.9757e-11
347	9.9999e-11	9.9756e-11	9.9756e-11
348	9.9999e-11	9.9756e-11	9.9756e-11
349	9.9999e-11	9.9755e-11	9.9755e-11
350	9.9999e-11	9.9754e-11	9.9754e-11
351	9.9999e-11	9.9753e-11	9.9753e-11
352	9.9999e-11	9.9753e-11	9.9753e-11
353	9.9999e-11	9.9752e-11	9.9752e-11
354	9.9999e-11	9.9751e-11	9.9751e-11
355	9.9999e-11	9.9751e-11	9.9751e-11
356	9.9999e-11	9.9750e-11	9.9750e-11
357	9.9999e-11	9.9749e-11	9.9749e-11
358	9.9999e-11	9.9749e-11	9.9749e-11
359	9.9999e-11	9.9748e-11	9.9748e-11
360	9.9999e-11	9.9747e-11	9.9747e-11
361	9.9999e-11	9.9746e-11	9.9746e-11
362	9.9999e-11	9.9746e-11	9.9746e-11
363	9.9999e-11	9.9745e-11	9.9745e-11
364	9.9999e-11	9.9744e-11	9.9744e-11
365	9.9999e-11	9.9744e-11	9.9744e-11
366	9.9999e-11	9.9743e-11	9.9743e-11
367	9.9999e-11	9.9742e-11	9.9742e-11
368	9.9999e-11	9.9741e-11	9.9741e-11
369	9.9999e-11	9.9741e-11	9.9741e-11
370	9.9999e-11	9.9740e-11	9.9740e-11
371	9.9999e-11	9.9739e-11	9.9739e-11
372	9.9999e-11	9.9739e-11	9.9739e-11
373	9.9999e-11	9.9738e-11	9.9738e-11
374	9.9999e-11	9.9737e-11	9.9737e-11
375	9.9999e-11	9.9737e-11	9.9737e-11
376	9.9999e-11	9.9736e-11	9.9736e-11
377	9.9999e-11	9.9735e-11	9.9735e-11
378	9.9999e-11	9.9734e-11	9.9734e-11

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x	$A(x)$	P_{v1}	P_{v2}
379	9.9999e-11	9.9734e-11	9.9734e-11
380	9.9999e-11	9.9733e-11	9.9733e-11
381	9.9999e-11	9.9732e-11	9.9732e-11
382	9.9999e-11	9.9732e-11	9.9732e-11
383	9.9999e-11	9.9731e-11	9.9731e-11
384	9.9999e-11	9.9730e-11	9.9730e-11
385	9.9999e-11	9.9729e-11	9.9729e-11
386	9.9999e-11	9.9729e-11	9.9729e-11
387	9.9999e-11	9.9728e-11	9.9728e-11
388	9.9999e-11	9.9727e-11	9.9727e-11
389	9.9999e-11	9.9727e-11	9.9727e-11
390	9.9999e-11	9.9726e-11	9.9726e-11
391	9.9999e-11	9.9725e-11	9.9725e-11
392	9.9999e-11	9.9725e-11	9.9725e-11
393	9.9999e-11	9.9724e-11	9.9724e-11
394	9.9999e-11	9.9723e-11	9.9723e-11
395	9.9999e-11	9.9722e-11	9.9722e-11
396	9.9999e-11	9.9722e-11	9.9722e-11
397	9.9999e-11	9.9721e-11	9.9721e-11
398	9.9999e-11	9.9720e-11	9.9720e-11
399	9.9999e-11	9.9720e-11	9.9720e-11
400	9.9999e-11	9.9719e-11	9.9719e-11
401	9.9999e-11	9.9718e-11	9.9718e-11
402	9.9999e-11	9.9717e-11	9.9717e-11
403	9.9999e-11	9.9717e-11	9.9717e-11
404	9.9999e-11	9.9716e-11	9.9716e-11
405	9.9999e-11	9.9715e-11	9.9715e-11
406	9.9999e-11	9.9715e-11	9.9715e-11
407	9.9999e-11	9.9714e-11	9.9714e-11
408	9.9999e-11	9.9713e-11	9.9713e-11
409	9.9999e-11	9.9712e-11	9.9712e-11
410	9.9999e-11	9.9712e-11	9.9712e-11
411	9.9999e-11	9.9711e-11	9.9711e-11
412	9.9999e-11	9.9710e-11	9.9710e-11
413	9.9999e-11	9.9710e-11	9.9710e-11
414	9.9999e-11	9.9709e-11	9.9709e-11
415	9.9999e-11	9.9708e-11	9.9708e-11
416	9.9999e-11	9.9708e-11	9.9708e-11
417	9.9999e-11	9.9707e-11	9.9707e-11
418	9.9999e-11	9.9706e-11	9.9706e-11

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x	$A(x)$	P_{v1}	P_{v2}
419	9.9999e-11	9.9705e-11	9.9705e-11
420	9.9999e-11	9.9705e-11	9.9705e-11
421	9.9999e-11	9.9704e-11	9.9704e-11
422	9.9999e-11	9.9703e-11	9.9703e-11
423	9.9999e-11	9.9703e-11	9.9703e-11
424	9.9999e-11	9.9702e-11	9.9702e-11
425	9.9999e-11	9.9701e-11	9.9701e-11
426	9.9999e-11	9.9700e-11	9.9700e-11
427	9.9999e-11	9.9700e-11	9.9700e-11
428	9.9999e-11	9.9699e-11	9.9699e-11
429	9.9999e-11	9.9698e-11	9.9698e-11
430	9.9999e-11	9.9698e-11	9.9698e-11
431	9.9999e-11	9.9697e-11	9.9697e-11
432	9.9999e-11	9.9696e-11	9.9696e-11
433	9.9999e-11	9.9696e-11	9.9696e-11
434	9.9999e-11	9.9695e-11	9.9695e-11
435	9.9999e-11	9.9694e-11	9.9694e-11
436	9.9999e-11	9.9693e-11	9.9693e-11
437	9.9999e-11	9.9693e-11	9.9693e-11
438	9.9999e-11	9.9692e-11	9.9692e-11
439	9.9999e-11	9.9691e-11	9.9691e-11
440	9.9999e-11	9.9691e-11	9.9691e-11
441	9.9999e-11	9.9690e-11	9.9690e-11
442	9.9999e-11	9.9689e-11	9.9689e-11
443	9.9999e-11	9.9688e-11	9.9688e-11
444	9.9999e-11	9.9688e-11	9.9688e-11
445	9.9999e-11	9.9687e-11	9.9687e-11
446	9.9999e-11	9.9686e-11	9.9686e-11
447	9.9999e-11	9.9686e-11	9.9686e-11
448	9.9999e-11	9.9685e-11	9.9685e-11
449	9.9999e-11	9.9684e-11	9.9684e-11
450	9.9999e-11	9.9683e-11	9.9683e-11
451	9.9999e-11	9.9683e-11	9.9683e-11
452	9.9999e-11	9.9682e-11	9.9682e-11
453	9.9999e-11	9.9681e-11	9.9681e-11
454	9.9999e-11	9.9681e-11	9.9681e-11
455	9.9999e-11	9.9680e-11	9.9680e-11
456	9.9999e-11	9.9679e-11	9.9679e-11
457	9.9999e-11	9.9679e-11	9.9679e-11
458	9.9999e-11	9.9678e-11	9.9678e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
459	9.9999e-11	9.9677e-11	9.9677e-11
460	9.9999e-11	9.9676e-11	9.9676e-11
461	9.9999e-11	9.9676e-11	9.9676e-11
462	9.9999e-11	9.9675e-11	9.9675e-11
463	9.9999e-11	9.9674e-11	9.9674e-11
464	9.9999e-11	9.9674e-11	9.9674e-11
465	9.9999e-11	9.9673e-11	9.9673e-11
466	9.9999e-11	9.9672e-11	9.9672e-11
467	9.9999e-11	9.9671e-11	9.9671e-11
468	9.9999e-11	9.9671e-11	9.9671e-11
469	9.9999e-11	9.9670e-11	9.9670e-11
470	9.9999e-11	9.9669e-11	9.9669e-11
471	9.9999e-11	9.9669e-11	9.9669e-11
472	9.9999e-11	9.9668e-11	9.9668e-11
473	9.9999e-11	9.9667e-11	9.9667e-11
474	9.9999e-11	9.9666e-11	9.9666e-11
475	9.9999e-11	9.9666e-11	9.9666e-11
476	9.9999e-11	9.9665e-11	9.9665e-11
477	9.9999e-11	9.9664e-11	9.9664e-11
478	9.9999e-11	9.9664e-11	9.9664e-11
479	9.9999e-11	9.9663e-11	9.9663e-11
480	9.9999e-11	9.9662e-11	9.9662e-11
481	9.9999e-11	9.9661e-11	9.9661e-11
482	9.9999e-11	9.9661e-11	9.9661e-11
483	9.9999e-11	9.9660e-11	9.9660e-11
484	9.9999e-11	9.9659e-11	9.9659e-11
485	9.9999e-11	9.9659e-11	9.9659e-11
486	9.9999e-11	9.9658e-11	9.9658e-11
487	9.9999e-11	9.9657e-11	9.9657e-11
488	9.9999e-11	9.9657e-11	9.9657e-11
489	9.9999e-11	9.9656e-11	9.9656e-11
490	9.9999e-11	9.9655e-11	9.9655e-11
491	9.9999e-11	9.9654e-11	9.9654e-11
492	9.9999e-11	9.9654e-11	9.9654e-11
493	9.9999e-11	9.9653e-11	9.9653e-11
494	9.9999e-11	9.9652e-11	9.9652e-11
495	9.9999e-11	9.9652e-11	9.9652e-11
496	9.9999e-11	9.9651e-11	9.9651e-11
497	9.9999e-11	9.9650e-11	9.9650e-11
498	9.9999e-11	9.9649e-11	9.9649e-11

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x	$A(x)$	P_{v1}	P_{v2}
499	9.9999e-11	9.9649e-11	9.9649e-11
500	9.9999e-11	9.9648e-11	9.9648e-11
501	9.9999e-11	9.9647e-11	9.9647e-11
502	9.9999e-11	9.9647e-11	9.9647e-11
503	9.9999e-11	9.9646e-11	9.9646e-11
504	9.9999e-11	9.9645e-11	9.9645e-11
505	9.9999e-11	9.9644e-11	9.9644e-11
506	9.9999e-11	9.9644e-11	9.9644e-11
507	9.9999e-11	9.9643e-11	9.9643e-11
508	9.9999e-11	9.9642e-11	9.9642e-11
509	9.9999e-11	9.9642e-11	9.9642e-11
510	9.9999e-11	9.9641e-11	9.9641e-11
511	9.9999e-11	9.9640e-11	9.9640e-11
512	9.9999e-11	9.9639e-11	9.9639e-11
513	9.9999e-11	9.9639e-11	9.9639e-11
514	9.9999e-11	9.9638e-11	9.9638e-11
515	9.9999e-11	9.9637e-11	9.9637e-11
516	9.9999e-11	9.9637e-11	9.9637e-11
517	9.9999e-11	9.9636e-11	9.9636e-11
518	9.9999e-11	9.9635e-11	9.9635e-11
519	9.9999e-11	9.9634e-11	9.9634e-11
520	9.9999e-11	9.9634e-11	9.9634e-11
521	9.9999e-11	9.9633e-11	9.9633e-11
522	9.9999e-11	9.9632e-11	9.9632e-11
523	9.9999e-11	9.9632e-11	9.9632e-11
524	9.9999e-11	9.9631e-11	9.9631e-11
525	9.9999e-11	9.9630e-11	9.9630e-11
526	9.9999e-11	9.9630e-11	9.9630e-11
527	9.9999e-11	9.9629e-11	9.9629e-11
528	9.9999e-11	9.9628e-11	9.9628e-11
529	9.9999e-11	9.9627e-11	9.9627e-11
530	9.9999e-11	9.9627e-11	9.9627e-11
531	9.9999e-11	9.9626e-11	9.9626e-11
532	9.9999e-11	9.9625e-11	9.9625e-11
533	9.9999e-11	9.9625e-11	9.9625e-11
534	9.9999e-11	9.9624e-11	9.9624e-11
535	9.9999e-11	9.9623e-11	9.9623e-11
536	9.9999e-11	9.9622e-11	9.9622e-11
537	9.9999e-11	9.9622e-11	9.9622e-11
538	9.9999e-11	9.9621e-11	9.9621e-11

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x	$A(x)$	P_{v1}	P_{v2}
539	9.9999e-11	9.9620e-11	9.9620e-11
540	9.9999e-11	9.9620e-11	9.9620e-11
541	9.9999e-11	9.9619e-11	9.9619e-11
542	9.9999e-11	9.9618e-11	9.9618e-11
543	9.9999e-11	9.9617e-11	9.9617e-11
544	9.9999e-11	9.9617e-11	9.9617e-11
545	9.9999e-11	9.9616e-11	9.9616e-11
546	9.9999e-11	9.9615e-11	9.9615e-11
547	9.9999e-11	9.9615e-11	9.9615e-11
548	9.9999e-11	9.9614e-11	9.9614e-11
549	9.9999e-11	9.9613e-11	9.9613e-11
550	9.9999e-11	9.9612e-11	9.9612e-11
551	9.9999e-11	9.9612e-11	9.9612e-11
552	9.9999e-11	9.9611e-11	9.9611e-11
553	9.9999e-11	9.9610e-11	9.9610e-11
554	9.9999e-11	9.9610e-11	9.9610e-11
555	9.9999e-11	9.9609e-11	9.9609e-11
556	9.9999e-11	9.9608e-11	9.9608e-11
557	9.9999e-11	9.9607e-11	9.9607e-11
558	9.9999e-11	9.9607e-11	9.9607e-11
559	9.9999e-11	9.9606e-11	9.9606e-11
560	9.9999e-11	9.9605e-11	9.9605e-11
561	9.9999e-11	9.9605e-11	9.9605e-11
562	9.9999e-11	9.9604e-11	9.9604e-11
563	9.9999e-11	9.9603e-11	9.9603e-11
564	9.9999e-11	9.9602e-11	9.9602e-11
565	9.9999e-11	9.9602e-11	9.9602e-11
566	9.9999e-11	9.9601e-11	9.9601e-11
567	9.9999e-11	9.9600e-11	9.9600e-11
568	9.9999e-11	9.9600e-11	9.9600e-11
569	9.9999e-11	9.9599e-11	9.9599e-11
570	9.9999e-11	9.9598e-11	9.9598e-11
571	9.9999e-11	9.9597e-11	9.9597e-11
572	9.9999e-11	9.9597e-11	9.9597e-11
573	9.9999e-11	9.9596e-11	9.9596e-11
574	9.9999e-11	9.9595e-11	9.9595e-11
575	9.9999e-11	9.9595e-11	9.9595e-11
576	9.9999e-11	9.9594e-11	9.9594e-11
577	9.9999e-11	9.9593e-11	9.9593e-11
578	9.9999e-11	9.9592e-11	9.9592e-11

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x	$A(x)$	P_{v1}	P_{v2}
579	9.9999e-11	9.9592e-11	9.9592e-11
580	9.9999e-11	9.9591e-11	9.9591e-11
581	9.9999e-11	9.9590e-11	9.9590e-11
582	9.9999e-11	9.9590e-11	9.9590e-11
583	9.9999e-11	9.9589e-11	9.9589e-11
584	9.9999e-11	9.9588e-11	9.9588e-11
585	9.9999e-11	9.9587e-11	9.9587e-11
586	9.9999e-11	9.9587e-11	9.9587e-11
587	9.9999e-11	9.9586e-11	9.9586e-11
588	9.9999e-11	9.9585e-11	9.9585e-11
589	9.9999e-11	9.9585e-11	9.9585e-11
590	9.9999e-11	9.9584e-11	9.9584e-11
591	9.9999e-11	9.9583e-11	9.9583e-11
592	9.9999e-11	9.9582e-11	9.9582e-11
593	9.9999e-11	9.9582e-11	9.9582e-11
594	9.9999e-11	9.9581e-11	9.9581e-11
595	9.9999e-11	9.9580e-11	9.9580e-11
596	9.9999e-11	9.9580e-11	9.9580e-11
597	9.9999e-11	9.9579e-11	9.9579e-11
598	9.9999e-11	9.9578e-11	9.9578e-11
599	9.9999e-11	9.9577e-11	9.9577e-11
600	9.9999e-11	9.9577e-11	9.9577e-11
601	9.9999e-11	9.9576e-11	9.9576e-11
602	9.9999e-11	9.9575e-11	9.9575e-11
603	9.9999e-11	9.9575e-11	9.9575e-11
604	9.9999e-11	9.9574e-11	9.9574e-11
605	9.9999e-11	9.9573e-11	9.9573e-11
606	9.9999e-11	9.9572e-11	9.9572e-11
607	9.9999e-11	9.9572e-11	9.9572e-11
608	9.9999e-11	9.9571e-11	9.9571e-11
609	9.9999e-11	9.9570e-11	9.9570e-11
610	9.9999e-11	9.9570e-11	9.9570e-11
611	9.9999e-11	9.9569e-11	9.9569e-11
612	9.9999e-11	9.9568e-11	9.9568e-11
613	9.9999e-11	9.9567e-11	9.9567e-11
614	9.9999e-11	9.9567e-11	9.9567e-11
615	9.9999e-11	9.9566e-11	9.9566e-11
616	9.9999e-11	9.9565e-11	9.9565e-11
617	9.9999e-11	9.9565e-11	9.9565e-11
618	9.9999e-11	9.9564e-11	9.9564e-11

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x	$A(x)$	P_{v1}	P_{v2}
619	9.9999e-11	9.9563e-11	9.9563e-11
620	9.9999e-11	9.9562e-11	9.9562e-11
621	9.9999e-11	9.9562e-11	9.9562e-11
622	9.9999e-11	9.9561e-11	9.9561e-11
623	9.9999e-11	9.9560e-11	9.9560e-11
624	9.9999e-11	9.9560e-11	9.9560e-11
625	9.9999e-11	9.9559e-11	9.9559e-11
626	9.9999e-11	9.9558e-11	9.9558e-11
627	9.9999e-11	9.9557e-11	9.9557e-11
628	9.9999e-11	9.9557e-11	9.9557e-11
629	9.9999e-11	9.9556e-11	9.9556e-11
630	9.9999e-11	9.9555e-11	9.9555e-11
631	9.9999e-11	9.9555e-11	9.9555e-11
632	9.9999e-11	9.9554e-11	9.9554e-11
633	9.9999e-11	9.9553e-11	9.9553e-11
634	9.9999e-11	9.9552e-11	9.9552e-11
635	9.9999e-11	9.9552e-11	9.9552e-11
636	9.9999e-11	9.9551e-11	9.9551e-11
637	9.9999e-11	9.9550e-11	9.9550e-11
638	9.9999e-11	9.9550e-11	9.9550e-11
639	9.9999e-11	9.9549e-11	9.9549e-11
640	9.9999e-11	9.9548e-11	9.9548e-11
641	9.9999e-11	9.9547e-11	9.9547e-11
642	9.9999e-11	9.9547e-11	9.9547e-11
643	9.9999e-11	9.9546e-11	9.9546e-11
644	9.9999e-11	9.9545e-11	9.9545e-11
645	9.9999e-11	9.9545e-11	9.9545e-11
646	9.9999e-11	9.9544e-11	9.9544e-11
647	9.9999e-11	9.9543e-11	9.9543e-11
648	9.9999e-11	9.9542e-11	9.9542e-11
649	9.9999e-11	9.9542e-11	9.9542e-11
650	9.9999e-11	9.9541e-11	9.9541e-11
651	9.9999e-11	9.9540e-11	9.9540e-11
652	9.9999e-11	9.9540e-11	9.9540e-11
653	9.9999e-11	9.9539e-11	9.9539e-11
654	9.9999e-11	9.9538e-11	9.9538e-11
655	9.9999e-11	9.9537e-11	9.9537e-11
656	9.9999e-11	9.9537e-11	9.9537e-11
657	9.9999e-11	9.9536e-11	9.9536e-11
658	9.9999e-11	9.9535e-11	9.9535e-11

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x	$A(x)$	P_{v1}	P_{v2}
659	9.9999e-11	9.9535e-11	9.9535e-11
660	9.9999e-11	9.9534e-11	9.9534e-11
661	9.9999e-11	9.9533e-11	9.9533e-11
662	9.9999e-11	9.9532e-11	9.9532e-11
663	9.9999e-11	9.9532e-11	9.9532e-11
664	9.9999e-11	9.9531e-11	9.9531e-11
665	9.9999e-11	9.9530e-11	9.9530e-11
666	9.9999e-11	9.9530e-11	9.9530e-11
667	9.9999e-11	9.9529e-11	9.9529e-11
668	9.9999e-11	9.9528e-11	9.9528e-11
669	9.9999e-11	9.9527e-11	9.9527e-11
670	9.9999e-11	9.9527e-11	9.9527e-11
671	9.9999e-11	9.9526e-11	9.9526e-11
672	9.9999e-11	9.9525e-11	9.9525e-11
673	9.9999e-11	9.9525e-11	9.9525e-11
674	9.9999e-11	9.9524e-11	9.9524e-11
675	9.9999e-11	9.9523e-11	9.9523e-11
676	9.9999e-11	9.9522e-11	9.9522e-11
677	9.9999e-11	9.9522e-11	9.9522e-11
678	9.9999e-11	9.9521e-11	9.9521e-11
679	9.9999e-11	9.9520e-11	9.9520e-11
680	9.9999e-11	9.9520e-11	9.9520e-11
681	9.9999e-11	9.9519e-11	9.9519e-11
682	9.9999e-11	9.9518e-11	9.9518e-11
683	9.9999e-11	9.9517e-11	9.9517e-11
684	9.9999e-11	9.9517e-11	9.9517e-11
685	9.9999e-11	9.9516e-11	9.9516e-11
686	9.9999e-11	9.9515e-11	9.9515e-11
687	9.9999e-11	9.9515e-11	9.9515e-11
688	9.9999e-11	9.9514e-11	9.9514e-11
689	9.9999e-11	9.9513e-11	9.9513e-11
690	9.9999e-11	9.9512e-11	9.9512e-11
691	9.9999e-11	9.9512e-11	9.9512e-11
692	9.9999e-11	9.9511e-11	9.9511e-11
693	9.9999e-11	9.9510e-11	9.9510e-11
694	9.9999e-11	9.9510e-11	9.9510e-11
695	9.9999e-11	9.9509e-11	9.9509e-11
696	9.9999e-11	9.9508e-11	9.9508e-11
697	9.9999e-11	9.9507e-11	9.9507e-11
698	9.9999e-11	9.9507e-11	9.9507e-11

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x	$A(x)$	P_{v1}	P_{v2}
699	9.9999e-11	9.9506e-11	9.9506e-11
700	9.9999e-11	9.9505e-11	9.9505e-11
701	9.9999e-11	9.9505e-11	9.9505e-11
702	9.9999e-11	9.9504e-11	9.9504e-11
703	9.9999e-11	9.9503e-11	9.9503e-11
704	9.9999e-11	9.9502e-11	9.9502e-11
705	9.9999e-11	9.9502e-11	9.9502e-11
706	9.9999e-11	9.9501e-11	9.9501e-11
707	9.9999e-11	9.9500e-11	9.9500e-11
708	9.9999e-11	9.9499e-11	9.9499e-11
709	9.9999e-11	9.9499e-11	9.9499e-11
710	9.9999e-11	9.9498e-11	9.9498e-11
711	9.9999e-11	9.9497e-11	9.9497e-11
712	9.9999e-11	9.9497e-11	9.9497e-11
713	9.9999e-11	9.9496e-11	9.9496e-11
714	9.9999e-11	9.9495e-11	9.9495e-11
715	9.9999e-11	9.9494e-11	9.9494e-11
716	9.9999e-11	9.9494e-11	9.9494e-11
717	9.9999e-11	9.9493e-11	9.9493e-11
718	9.9999e-11	9.9492e-11	9.9492e-11
719	9.9999e-11	9.9492e-11	9.9492e-11
720	9.9999e-11	9.9491e-11	9.9491e-11
721	9.9999e-11	9.9490e-11	9.9490e-11
722	9.9999e-11	9.9489e-11	9.9489e-11
723	9.9999e-11	9.9489e-11	9.9489e-11
724	9.9999e-11	9.9488e-11	9.9488e-11
725	9.9999e-11	9.9487e-11	9.9487e-11
726	9.9999e-11	9.9487e-11	9.9487e-11
727	9.9999e-11	9.9486e-11	9.9486e-11
728	9.9999e-11	9.9485e-11	9.9485e-11
729	9.9999e-11	9.9484e-11	9.9484e-11
730	9.9999e-11	9.9484e-11	9.9484e-11
731	9.9999e-11	9.9483e-11	9.9483e-11
732	9.9999e-11	9.9482e-11	9.9482e-11
733	9.9999e-11	9.9482e-11	9.9482e-11
734	9.9999e-11	9.9481e-11	9.9481e-11
735	9.9999e-11	9.9480e-11	9.9480e-11
736	9.9999e-11	9.9479e-11	9.9479e-11
737	9.9999e-11	9.9479e-11	9.9479e-11
738	9.9999e-11	9.9478e-11	9.9478e-11

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x	$A(x)$	P_{v1}	P_{v2}
739	9.9999e-11	9.9477e-11	9.9477e-11
740	9.9999e-11	9.9477e-11	9.9477e-11
741	9.9999e-11	9.9476e-11	9.9476e-11
742	9.9999e-11	9.9475e-11	9.9475e-11
743	9.9999e-11	9.9474e-11	9.9474e-11
744	9.9999e-11	9.9474e-11	9.9474e-11
745	9.9999e-11	9.9473e-11	9.9473e-11
746	9.9999e-11	9.9472e-11	9.9472e-11
747	9.9999e-11	9.9471e-11	9.9471e-11
748	9.9999e-11	9.9471e-11	9.9471e-11
749	9.9999e-11	9.9470e-11	9.9470e-11
750	9.9999e-11	9.9469e-11	9.9469e-11
751	9.9999e-11	9.9469e-11	9.9469e-11
752	9.9999e-11	9.9468e-11	9.9468e-11
753	9.9999e-11	9.9467e-11	9.9467e-11
754	9.9999e-11	9.9466e-11	9.9466e-11
755	9.9999e-11	9.9466e-11	9.9466e-11
756	9.9999e-11	9.9465e-11	9.9465e-11
757	9.9999e-11	9.9464e-11	9.9464e-11
758	9.9999e-11	9.9464e-11	9.9464e-11
759	9.9999e-11	9.9463e-11	9.9463e-11
760	9.9999e-11	9.9462e-11	9.9462e-11
761	9.9999e-11	9.9461e-11	9.9461e-11
762	9.9999e-11	9.9461e-11	9.9461e-11
763	9.9999e-11	9.9460e-11	9.9460e-11
764	9.9999e-11	9.9459e-11	9.9459e-11
765	9.9999e-11	9.9459e-11	9.9459e-11
766	9.9999e-11	9.9458e-11	9.9458e-11
767	9.9999e-11	9.9457e-11	9.9457e-11
768	9.9999e-11	9.9456e-11	9.9456e-11
769	9.9999e-11	9.9456e-11	9.9456e-11
770	9.9999e-11	9.9455e-11	9.9455e-11
771	9.9999e-11	9.9454e-11	9.9454e-11
772	9.9999e-11	9.9454e-11	9.9454e-11
773	9.9999e-11	9.9453e-11	9.9453e-11
774	9.9999e-11	9.9452e-11	9.9452e-11
775	9.9999e-11	9.9451e-11	9.9451e-11
776	9.9999e-11	9.9451e-11	9.9451e-11
777	9.9999e-11	9.9450e-11	9.9450e-11
778	9.9999e-11	9.9449e-11	9.9449e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
779	9.9999e-11	9.9448e-11	9.9448e-11
780	9.9999e-11	9.9448e-11	9.9448e-11
781	9.9999e-11	9.9447e-11	9.9447e-11
782	9.9999e-11	9.9446e-11	9.9446e-11
783	9.9999e-11	9.9446e-11	9.9446e-11
784	9.9999e-11	9.9445e-11	9.9445e-11
785	9.9999e-11	9.9444e-11	9.9444e-11
786	9.9999e-11	9.9443e-11	9.9443e-11
787	9.9999e-11	9.9443e-11	9.9443e-11
788	9.9999e-11	9.9442e-11	9.9442e-11
789	9.9999e-11	9.9441e-11	9.9441e-11
790	9.9999e-11	9.9441e-11	9.9441e-11
791	9.9999e-11	9.9440e-11	9.9440e-11
792	9.9999e-11	9.9439e-11	9.9439e-11
793	9.9999e-11	9.9438e-11	9.9438e-11
794	9.9999e-11	9.9438e-11	9.9438e-11
795	9.9999e-11	9.9437e-11	9.9437e-11
796	9.9999e-11	9.9436e-11	9.9436e-11
797	9.9999e-11	9.9436e-11	9.9436e-11
798	9.9999e-11	9.9435e-11	9.9435e-11
799	9.9999e-11	9.9434e-11	9.9434e-11
800	9.9999e-11	9.9433e-11	9.9433e-11
801	9.9999e-11	9.9433e-11	9.9433e-11
802	9.9999e-11	9.9432e-11	9.9432e-11
803	9.9999e-11	9.9431e-11	9.9431e-11
804	9.9999e-11	9.9430e-11	9.9430e-11
805	9.9999e-11	9.9430e-11	9.9430e-11
806	9.9999e-11	9.9429e-11	9.9429e-11
807	9.9999e-11	9.9428e-11	9.9428e-11
808	9.9999e-11	9.9428e-11	9.9428e-11
809	9.9999e-11	9.9427e-11	9.9427e-11
810	9.9999e-11	9.9426e-11	9.9426e-11
811	9.9999e-11	9.9425e-11	9.9425e-11
812	9.9999e-11	9.9425e-11	9.9425e-11
813	9.9999e-11	9.9424e-11	9.9424e-11
814	9.9999e-11	9.9423e-11	9.9423e-11
815	9.9999e-11	9.9423e-11	9.9423e-11
816	9.9999e-11	9.9422e-11	9.9422e-11
817	9.9999e-11	9.9421e-11	9.9421e-11
818	9.9999e-11	9.9420e-11	9.9420e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
819	9.9999e-11	9.9420e-11	9.9420e-11
820	9.9999e-11	9.9419e-11	9.9419e-11
821	9.9999e-11	9.9418e-11	9.9418e-11
822	9.9999e-11	9.9417e-11	9.9417e-11
823	9.9999e-11	9.9417e-11	9.9417e-11
824	9.9999e-11	9.9416e-11	9.9416e-11
825	9.9999e-11	9.9415e-11	9.9415e-11
826	9.9999e-11	9.9415e-11	9.9415e-11
827	9.9999e-11	9.9414e-11	9.9414e-11
828	9.9999e-11	9.9413e-11	9.9413e-11
829	9.9999e-11	9.9412e-11	9.9412e-11
830	9.9999e-11	9.9412e-11	9.9412e-11
831	9.9999e-11	9.9411e-11	9.9411e-11
832	9.9999e-11	9.9410e-11	9.9410e-11
833	9.9999e-11	9.9410e-11	9.9410e-11
834	9.9999e-11	9.9409e-11	9.9409e-11
835	9.9999e-11	9.9408e-11	9.9408e-11
836	9.9999e-11	9.9407e-11	9.9407e-11
837	9.9999e-11	9.9407e-11	9.9407e-11
838	9.9999e-11	9.9406e-11	9.9406e-11
839	9.9999e-11	9.9405e-11	9.9405e-11
840	9.9999e-11	9.9404e-11	9.9404e-11
841	9.9999e-11	9.9404e-11	9.9404e-11
842	9.9999e-11	9.9403e-11	9.9403e-11
843	9.9999e-11	9.9402e-11	9.9402e-11
844	9.9999e-11	9.9402e-11	9.9402e-11
845	9.9999e-11	9.9401e-11	9.9401e-11
846	9.9999e-11	9.9400e-11	9.9400e-11
847	9.9999e-11	9.9399e-11	9.9399e-11
848	9.9999e-11	9.9399e-11	9.9399e-11
849	9.9999e-11	9.9398e-11	9.9398e-11
850	9.9999e-11	9.9397e-11	9.9397e-11
851	9.9999e-11	9.9397e-11	9.9397e-11
852	9.9999e-11	9.9396e-11	9.9396e-11
853	9.9999e-11	9.9395e-11	9.9395e-11
854	9.9999e-11	9.9394e-11	9.9394e-11
855	9.9999e-11	9.9394e-11	9.9394e-11
856	9.9999e-11	9.9393e-11	9.9393e-11
857	9.9999e-11	9.9392e-11	9.9392e-11
858	9.9999e-11	9.9391e-11	9.9391e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
859	9.9999e-11	9.9391e-11	9.9391e-11
860	9.9999e-11	9.9390e-11	9.9390e-11
861	9.9999e-11	9.9389e-11	9.9389e-11
862	9.9999e-11	9.9389e-11	9.9389e-11
863	9.9999e-11	9.9388e-11	9.9388e-11
864	9.9999e-11	9.9387e-11	9.9387e-11
865	9.9999e-11	9.9386e-11	9.9386e-11
866	9.9999e-11	9.9386e-11	9.9386e-11
867	9.9999e-11	9.9385e-11	9.9385e-11
868	9.9999e-11	9.9384e-11	9.9384e-11
869	9.9999e-11	9.9384e-11	9.9384e-11
870	9.9999e-11	9.9383e-11	9.9383e-11
871	9.9999e-11	9.9382e-11	9.9382e-11
872	9.9999e-11	9.9381e-11	9.9381e-11
873	9.9999e-11	9.9381e-11	9.9381e-11
874	9.9999e-11	9.9380e-11	9.9380e-11
875	9.9999e-11	9.9379e-11	9.9379e-11
876	9.9999e-11	9.9378e-11	9.9378e-11
877	9.9999e-11	9.9378e-11	9.9378e-11
878	9.9999e-11	9.9377e-11	9.9377e-11
879	9.9999e-11	9.9376e-11	9.9376e-11
880	9.9999e-11	9.9376e-11	9.9376e-11
881	9.9999e-11	9.9375e-11	9.9375e-11
882	9.9999e-11	9.9374e-11	9.9374e-11
883	9.9999e-11	9.9373e-11	9.9373e-11
884	9.9999e-11	9.9373e-11	9.9373e-11
885	9.9999e-11	9.9372e-11	9.9372e-11
886	9.9999e-11	9.9371e-11	9.9371e-11
887	9.9999e-11	9.9371e-11	9.9371e-11
888	9.9999e-11	9.9370e-11	9.9370e-11
889	9.9999e-11	9.9369e-11	9.9369e-11
890	9.9999e-11	9.9368e-11	9.9368e-11
891	9.9999e-11	9.9368e-11	9.9368e-11
892	9.9999e-11	9.9367e-11	9.9367e-11
893	9.9999e-11	9.9366e-11	9.9366e-11
894	9.9999e-11	9.9365e-11	9.9365e-11
895	9.9999e-11	9.9365e-11	9.9365e-11
896	9.9999e-11	9.9364e-11	9.9364e-11
897	9.9999e-11	9.9363e-11	9.9363e-11
898	9.9999e-11	9.9363e-11	9.9363e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
899	9.9999e-11	9.9362e-11	9.9362e-11
900	9.9999e-11	9.9361e-11	9.9361e-11
901	9.9999e-11	9.9360e-11	9.9360e-11
902	9.9999e-11	9.9360e-11	9.9360e-11
903	9.9999e-11	9.9359e-11	9.9359e-11
904	9.9999e-11	9.9358e-11	9.9358e-11
905	9.9999e-11	9.9357e-11	9.9357e-11
906	9.9999e-11	9.9357e-11	9.9357e-11
907	9.9999e-11	9.9356e-11	9.9356e-11
908	9.9999e-11	9.9355e-11	9.9355e-11
909	9.9999e-11	9.9355e-11	9.9355e-11
910	9.9999e-11	9.9354e-11	9.9354e-11
911	9.9999e-11	9.9353e-11	9.9353e-11
912	9.9999e-11	9.9352e-11	9.9352e-11
913	9.9999e-11	9.9352e-11	9.9352e-11
914	9.9999e-11	9.9351e-11	9.9351e-11
915	9.9999e-11	9.9350e-11	9.9350e-11
916	9.9999e-11	9.9350e-11	9.9350e-11
917	9.9999e-11	9.9349e-11	9.9349e-11
918	9.9999e-11	9.9348e-11	9.9348e-11
919	9.9999e-11	9.9347e-11	9.9347e-11
920	9.9999e-11	9.9347e-11	9.9347e-11
921	9.9999e-11	9.9346e-11	9.9346e-11
922	9.9999e-11	9.9345e-11	9.9345e-11
923	9.9999e-11	9.9344e-11	9.9344e-11
924	9.9999e-11	9.9344e-11	9.9344e-11
925	9.9999e-11	9.9343e-11	9.9343e-11
926	9.9999e-11	9.9342e-11	9.9342e-11
927	9.9999e-11	9.9342e-11	9.9342e-11
928	9.9999e-11	9.9341e-11	9.9341e-11
929	9.9999e-11	9.9340e-11	9.9340e-11
930	9.9999e-11	9.9339e-11	9.9339e-11
931	9.9999e-11	9.9339e-11	9.9339e-11
932	9.9999e-11	9.9338e-11	9.9338e-11
933	9.9999e-11	9.9337e-11	9.9337e-11
934	9.9999e-11	9.9336e-11	9.9336e-11
935	9.9999e-11	9.9336e-11	9.9336e-11
936	9.9999e-11	9.9335e-11	9.9335e-11
937	9.9999e-11	9.9334e-11	9.9334e-11
938	9.9999e-11	9.9334e-11	9.9334e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
939	9.9999e-11	9.9333e-11	9.9333e-11
940	9.9999e-11	9.9332e-11	9.9332e-11
941	9.9999e-11	9.9331e-11	9.9331e-11
942	9.9999e-11	9.9331e-11	9.9331e-11
943	9.9999e-11	9.9330e-11	9.9330e-11
944	9.9999e-11	9.9329e-11	9.9329e-11
945	9.9999e-11	9.9329e-11	9.9329e-11
946	9.9999e-11	9.9328e-11	9.9328e-11
947	9.9999e-11	9.9327e-11	9.9327e-11
948	9.9999e-11	9.9326e-11	9.9326e-11
949	9.9999e-11	9.9326e-11	9.9326e-11
950	9.9999e-11	9.9325e-11	9.9325e-11
951	9.9999e-11	9.9324e-11	9.9324e-11
952	9.9999e-11	9.9323e-11	9.9323e-11
953	9.9999e-11	9.9323e-11	9.9323e-11
954	9.9999e-11	9.9322e-11	9.9322e-11
955	9.9999e-11	9.9321e-11	9.9321e-11
956	9.9999e-11	9.9321e-11	9.9321e-11
957	9.9999e-11	9.9320e-11	9.9320e-11
958	9.9999e-11	9.9319e-11	9.9319e-11
959	9.9999e-11	9.9318e-11	9.9318e-11
960	9.9999e-11	9.9318e-11	9.9318e-11
961	9.9999e-11	9.9317e-11	9.9317e-11
962	9.9999e-11	9.9316e-11	9.9316e-11
963	9.9999e-11	9.9315e-11	9.9315e-11
964	9.9999e-11	9.9315e-11	9.9315e-11
965	9.9999e-11	9.9314e-11	9.9314e-11
966	9.9999e-11	9.9313e-11	9.9313e-11
967	9.9999e-11	9.9313e-11	9.9313e-11
968	9.9999e-11	9.9312e-11	9.9312e-11
969	9.9999e-11	9.9311e-11	9.9311e-11
970	9.9999e-11	9.9310e-11	9.9310e-11
971	9.9999e-11	9.9310e-11	9.9310e-11
972	9.9999e-11	9.9309e-11	9.9309e-11
973	9.9999e-11	9.9308e-11	9.9308e-11
974	9.9999e-11	9.9307e-11	9.9307e-11
975	9.9999e-11	9.9307e-11	9.9307e-11
976	9.9999e-11	9.9306e-11	9.9306e-11
977	9.9999e-11	9.9305e-11	9.9305e-11
978	9.9999e-11	9.9305e-11	9.9305e-11

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x	$A(x)$	P_{v1}	P_{v2}
979	9.9999e-11	9.9304e-11	9.9304e-11
980	9.9999e-11	9.9303e-11	9.9303e-11
981	9.9999e-11	9.9302e-11	9.9302e-11
982	9.9999e-11	9.9302e-11	9.9302e-11
983	9.9999e-11	9.9301e-11	9.9301e-11
984	9.9999e-11	9.9300e-11	9.9300e-11
985	9.9999e-11	9.9299e-11	9.9299e-11
986	9.9999e-11	9.9299e-11	9.9299e-11
987	9.9999e-11	9.9298e-11	9.9298e-11
988	9.9999e-11	9.9297e-11	9.9297e-11
989	9.9999e-11	9.9297e-11	9.9297e-11
990	9.9999e-11	9.9296e-11	9.9296e-11
991	9.9999e-11	9.9295e-11	9.9295e-11
992	9.9999e-11	9.9294e-11	9.9294e-11
993	9.9999e-11	9.9294e-11	9.9294e-11
994	9.9999e-11	9.9293e-11	9.9293e-11
995	9.9999e-11	9.9292e-11	9.9292e-11
996	9.9999e-11	9.9291e-11	9.9291e-11
997	9.9999e-11	9.9291e-11	9.9291e-11
998	9.9999e-11	9.9290e-11	9.9290e-11
999	9.9999e-11	9.9289e-11	9.9289e-11
1000	9.9999e-11	9.9289e-11	9.9289e-11

Table B.7.16: Output for Problem 7.3.2-DIST-C2

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	6.9314e-11	6.9304e-11	6.9304e-11
2	6.9312e-11	6.9313e-11	6.9313e-11
3	6.9311e-11	6.9312e-11	6.9312e-11
4	6.9310e-11	6.9310e-11	6.9310e-11
5	6.9309e-11	6.9309e-11	6.9309e-11
6	6.9308e-11	6.9308e-11	6.9308e-11
7	6.9307e-11	6.9307e-11	6.9307e-11
8	6.9305e-11	6.9306e-11	6.9306e-11
9	6.9304e-11	6.9304e-11	6.9304e-11
10	6.9303e-11	6.9303e-11	6.9303e-11
11	6.9302e-11	6.9302e-11	6.9302e-11
12	6.9301e-11	6.9301e-11	6.9301e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
13	6.9299e-11	6.9300e-11	6.9300e-11
14	6.9298e-11	6.9299e-11	6.9299e-11
15	6.9297e-11	6.9297e-11	6.9297e-11
16	6.9296e-11	6.9296e-11	6.9296e-11
17	6.9295e-11	6.9295e-11	6.9295e-11
18	6.9294e-11	6.9294e-11	6.9294e-11
19	6.9292e-11	6.9293e-11	6.9293e-11
20	6.9291e-11	6.9292e-11	6.9292e-11
21	6.9290e-11	6.9290e-11	6.9290e-11
22	6.9289e-11	6.9289e-11	6.9289e-11
23	6.9288e-11	6.9288e-11	6.9288e-11
24	6.9287e-11	6.9287e-11	6.9287e-11
25	6.9285e-11	6.9286e-11	6.9286e-11
26	6.9284e-11	6.9285e-11	6.9285e-11
27	6.9283e-11	6.9283e-11	6.9283e-11
28	6.9282e-11	6.9282e-11	6.9282e-11
29	6.9281e-11	6.9281e-11	6.9281e-11
30	6.9280e-11	6.9280e-11	6.9280e-11
31	6.9278e-11	6.9279e-11	6.9279e-11
32	6.9277e-11	6.9277e-11	6.9277e-11
33	6.9276e-11	6.9276e-11	6.9276e-11
34	6.9275e-11	6.9275e-11	6.9275e-11
35	6.9274e-11	6.9274e-11	6.9274e-11
36	6.9272e-11	6.9273e-11	6.9273e-11
37	6.9271e-11	6.9272e-11	6.9272e-11
38	6.9270e-11	6.9270e-11	6.9270e-11
39	6.9269e-11	6.9269e-11	6.9269e-11
40	6.9268e-11	6.9268e-11	6.9268e-11
41	6.9267e-11	6.9267e-11	6.9267e-11
42	6.9265e-11	6.9266e-11	6.9266e-11
43	6.9264e-11	6.9265e-11	6.9265e-11
44	6.9263e-11	6.9263e-11	6.9263e-11
45	6.9262e-11	6.9262e-11	6.9262e-11
46	6.9261e-11	6.9261e-11	6.9261e-11
47	6.9260e-11	6.9260e-11	6.9260e-11
48	6.9258e-11	6.9259e-11	6.9259e-11
49	6.9257e-11	6.9258e-11	6.9258e-11
50	6.9256e-11	6.9256e-11	6.9256e-11
51	6.9255e-11	6.9255e-11	6.9255e-11
52	6.9254e-11	6.9254e-11	6.9254e-11

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x	$A(x)$	P_{v1}	P_{v2}
53	6.9253e-11	6.9253e-11	6.9253e-11
54	6.9251e-11	6.9252e-11	6.9252e-11
55	6.9250e-11	6.9250e-11	6.9250e-11
56	6.9249e-11	6.9249e-11	6.9249e-11
57	6.9248e-11	6.9248e-11	6.9248e-11
58	6.9247e-11	6.9247e-11	6.9247e-11
59	6.9245e-11	6.9246e-11	6.9246e-11
60	6.9244e-11	6.9245e-11	6.9245e-11
61	6.9243e-11	6.9243e-11	6.9243e-11
62	6.9242e-11	6.9242e-11	6.9242e-11
63	6.9241e-11	6.9241e-11	6.9241e-11
64	6.9240e-11	6.9240e-11	6.9240e-11
65	6.9238e-11	6.9239e-11	6.9239e-11
66	6.9237e-11	6.9238e-11	6.9238e-11
67	6.9236e-11	6.9236e-11	6.9236e-11
68	6.9235e-11	6.9235e-11	6.9235e-11
69	6.9234e-11	6.9234e-11	6.9234e-11
70	6.9233e-11	6.9233e-11	6.9233e-11
71	6.9231e-11	6.9232e-11	6.9232e-11
72	6.9230e-11	6.9231e-11	6.9231e-11
73	6.9229e-11	6.9229e-11	6.9229e-11
74	6.9228e-11	6.9228e-11	6.9228e-11
75	6.9227e-11	6.9227e-11	6.9227e-11
76	6.9226e-11	6.9226e-11	6.9226e-11
77	6.9224e-11	6.9225e-11	6.9225e-11
78	6.9223e-11	6.9224e-11	6.9224e-11
79	6.9222e-11	6.9222e-11	6.9222e-11
80	6.9221e-11	6.9221e-11	6.9221e-11
81	6.9220e-11	6.9220e-11	6.9220e-11
82	6.9219e-11	6.9219e-11	6.9219e-11
83	6.9217e-11	6.9218e-11	6.9218e-11
84	6.9216e-11	6.9216e-11	6.9216e-11
85	6.9215e-11	6.9215e-11	6.9215e-11
86	6.9214e-11	6.9214e-11	6.9214e-11
87	6.9213e-11	6.9213e-11	6.9213e-11
88	6.9211e-11	6.9212e-11	6.9212e-11
89	6.9210e-11	6.9211e-11	6.9211e-11
90	6.9209e-11	6.9209e-11	6.9209e-11
91	6.9208e-11	6.9208e-11	6.9208e-11
92	6.9207e-11	6.9207e-11	6.9207e-11

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x	$A(x)$	P_{v1}	P_{v2}
93	6.9206e-11	6.9206e-11	6.9206e-11
94	6.9204e-11	6.9205e-11	6.9205e-11
95	6.9203e-11	6.9204e-11	6.9204e-11
96	6.9202e-11	6.9202e-11	6.9202e-11
97	6.9201e-11	6.9201e-11	6.9201e-11
98	6.9200e-11	6.9200e-11	6.9200e-11
99	6.9199e-11	6.9199e-11	6.9199e-11
100	6.9197e-11	6.9198e-11	6.9198e-11
101	6.9196e-11	6.9197e-11	6.9197e-11
102	6.9195e-11	6.9195e-11	6.9195e-11
103	6.9194e-11	6.9194e-11	6.9194e-11
104	6.9193e-11	6.9193e-11	6.9193e-11
105	6.9192e-11	6.9192e-11	6.9192e-11
106	6.9190e-11	6.9191e-11	6.9191e-11
107	6.9189e-11	6.9190e-11	6.9190e-11
108	6.9188e-11	6.9188e-11	6.9188e-11
109	6.9187e-11	6.9187e-11	6.9187e-11
110	6.9186e-11	6.9186e-11	6.9186e-11
111	6.9184e-11	6.9185e-11	6.9185e-11
112	6.9183e-11	6.9184e-11	6.9184e-11
113	6.9182e-11	6.9182e-11	6.9182e-11
114	6.9181e-11	6.9181e-11	6.9181e-11
115	6.9180e-11	6.9180e-11	6.9180e-11
116	6.9179e-11	6.9179e-11	6.9179e-11
117	6.9177e-11	6.9178e-11	6.9178e-11
118	6.9176e-11	6.9177e-11	6.9177e-11
119	6.9175e-11	6.9175e-11	6.9175e-11
120	6.9174e-11	6.9174e-11	6.9174e-11
121	6.9173e-11	6.9173e-11	6.9173e-11
122	6.9172e-11	6.9172e-11	6.9172e-11
123	6.9170e-11	6.9171e-11	6.9171e-11
124	6.9169e-11	6.9170e-11	6.9170e-11
125	6.9168e-11	6.9168e-11	6.9168e-11
126	6.9167e-11	6.9167e-11	6.9167e-11
127	6.9166e-11	6.9166e-11	6.9166e-11
128	6.9165e-11	6.9165e-11	6.9165e-11
129	6.9163e-11	6.9164e-11	6.9164e-11
130	6.9162e-11	6.9163e-11	6.9163e-11
131	6.9161e-11	6.9161e-11	6.9161e-11
132	6.9160e-11	6.9160e-11	6.9160e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
133	6.9159e-11	6.9159e-11	6.9159e-11
134	6.9158e-11	6.9158e-11	6.9158e-11
135	6.9156e-11	6.9157e-11	6.9157e-11
136	6.9155e-11	6.9156e-11	6.9156e-11
137	6.9154e-11	6.9154e-11	6.9154e-11
138	6.9153e-11	6.9153e-11	6.9153e-11
139	6.9152e-11	6.9152e-11	6.9152e-11
140	6.9150e-11	6.9151e-11	6.9151e-11
141	6.9149e-11	6.9150e-11	6.9150e-11
142	6.9148e-11	6.9149e-11	6.9149e-11
143	6.9147e-11	6.9147e-11	6.9147e-11
144	6.9146e-11	6.9146e-11	6.9146e-11
145	6.9145e-11	6.9145e-11	6.9145e-11
146	6.9143e-11	6.9144e-11	6.9144e-11
147	6.9142e-11	6.9143e-11	6.9143e-11
148	6.9141e-11	6.9141e-11	6.9141e-11
149	6.9140e-11	6.9140e-11	6.9140e-11
150	6.9139e-11	6.9139e-11	6.9139e-11
151	6.9138e-11	6.9138e-11	6.9138e-11
152	6.9136e-11	6.9137e-11	6.9137e-11
153	6.9135e-11	6.9136e-11	6.9136e-11
154	6.9134e-11	6.9134e-11	6.9134e-11
155	6.9133e-11	6.9133e-11	6.9133e-11
156	6.9132e-11	6.9132e-11	6.9132e-11
157	6.9131e-11	6.9131e-11	6.9131e-11
158	6.9129e-11	6.9130e-11	6.9130e-11
159	6.9128e-11	6.9129e-11	6.9129e-11
160	6.9127e-11	6.9127e-11	6.9127e-11
161	6.9126e-11	6.9126e-11	6.9126e-11
162	6.9125e-11	6.9125e-11	6.9125e-11
163	6.9124e-11	6.9124e-11	6.9124e-11
164	6.9122e-11	6.9123e-11	6.9123e-11
165	6.9121e-11	6.9122e-11	6.9122e-11
166	6.9120e-11	6.9120e-11	6.9120e-11
167	6.9119e-11	6.9119e-11	6.9119e-11
168	6.9118e-11	6.9118e-11	6.9118e-11
169	6.9116e-11	6.9117e-11	6.9117e-11
170	6.9115e-11	6.9116e-11	6.9116e-11
171	6.9114e-11	6.9115e-11	6.9115e-11
172	6.9113e-11	6.9113e-11	6.9113e-11

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x	$A(x)$	P_{v1}	P_{v2}
173	6.9112e-11	6.9112e-11	6.9112e-11
174	6.9111e-11	6.9111e-11	6.9111e-11
175	6.9109e-11	6.9110e-11	6.9110e-11
176	6.9108e-11	6.9109e-11	6.9109e-11
177	6.9107e-11	6.9107e-11	6.9107e-11
178	6.9106e-11	6.9106e-11	6.9106e-11
179	6.9105e-11	6.9105e-11	6.9105e-11
180	6.9104e-11	6.9104e-11	6.9104e-11
181	6.9102e-11	6.9103e-11	6.9103e-11
182	6.9101e-11	6.9102e-11	6.9102e-11
183	6.9100e-11	6.9100e-11	6.9100e-11
184	6.9099e-11	6.9099e-11	6.9099e-11
185	6.9098e-11	6.9098e-11	6.9098e-11
186	6.9097e-11	6.9097e-11	6.9097e-11
187	6.9095e-11	6.9096e-11	6.9096e-11
188	6.9094e-11	6.9095e-11	6.9095e-11
189	6.9093e-11	6.9093e-11	6.9093e-11
190	6.9092e-11	6.9092e-11	6.9092e-11
191	6.9091e-11	6.9091e-11	6.9091e-11
192	6.9090e-11	6.9090e-11	6.9090e-11
193	6.9088e-11	6.9089e-11	6.9089e-11
194	6.9087e-11	6.9088e-11	6.9088e-11
195	6.9086e-11	6.9086e-11	6.9086e-11
196	6.9085e-11	6.9085e-11	6.9085e-11
197	6.9084e-11	6.9084e-11	6.9084e-11
198	6.9083e-11	6.9083e-11	6.9083e-11
199	6.9081e-11	6.9082e-11	6.9082e-11
200	6.9080e-11	6.9081e-11	6.9081e-11
201	6.9079e-11	6.9079e-11	6.9079e-11
202	6.9078e-11	6.9078e-11	6.9078e-11
203	6.9077e-11	6.9077e-11	6.9077e-11
204	6.9075e-11	6.9076e-11	6.9076e-11
205	6.9074e-11	6.9075e-11	6.9075e-11
206	6.9073e-11	6.9074e-11	6.9074e-11
207	6.9072e-11	6.9072e-11	6.9072e-11
208	6.9071e-11	6.9071e-11	6.9071e-11
209	6.9070e-11	6.9070e-11	6.9070e-11
210	6.9068e-11	6.9069e-11	6.9069e-11
211	6.9067e-11	6.9068e-11	6.9068e-11
212	6.9066e-11	6.9067e-11	6.9067e-11

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x	$A(x)$	P_{v1}	P_{v2}
213	6.9065e-11	6.9065e-11	6.9065e-11
214	6.9064e-11	6.9064e-11	6.9064e-11
215	6.9063e-11	6.9063e-11	6.9063e-11
216	6.9061e-11	6.9062e-11	6.9062e-11
217	6.9060e-11	6.9061e-11	6.9061e-11
218	6.9059e-11	6.9059e-11	6.9059e-11
219	6.9058e-11	6.9058e-11	6.9058e-11
220	6.9057e-11	6.9057e-11	6.9057e-11
221	6.9056e-11	6.9056e-11	6.9056e-11
222	6.9054e-11	6.9055e-11	6.9055e-11
223	6.9053e-11	6.9054e-11	6.9054e-11
224	6.9052e-11	6.9052e-11	6.9052e-11
225	6.9051e-11	6.9051e-11	6.9051e-11
226	6.9050e-11	6.9050e-11	6.9050e-11
227	6.9049e-11	6.9049e-11	6.9049e-11
228	6.9047e-11	6.9048e-11	6.9048e-11
229	6.9046e-11	6.9047e-11	6.9047e-11
230	6.9045e-11	6.9045e-11	6.9045e-11
231	6.9044e-11	6.9044e-11	6.9044e-11
232	6.9043e-11	6.9043e-11	6.9043e-11
233	6.9041e-11	6.9042e-11	6.9042e-11
234	6.9040e-11	6.9041e-11	6.9041e-11
235	6.9039e-11	6.9040e-11	6.9040e-11
236	6.9038e-11	6.9038e-11	6.9038e-11
237	6.9037e-11	6.9037e-11	6.9037e-11
238	6.9036e-11	6.9036e-11	6.9036e-11
239	6.9034e-11	6.9035e-11	6.9035e-11
240	6.9033e-11	6.9034e-11	6.9034e-11
241	6.9032e-11	6.9033e-11	6.9033e-11
242	6.9031e-11	6.9031e-11	6.9031e-11
243	6.9030e-11	6.9030e-11	6.9030e-11
244	6.9029e-11	6.9029e-11	6.9029e-11
245	6.9027e-11	6.9028e-11	6.9028e-11
246	6.9026e-11	6.9027e-11	6.9027e-11
247	6.9025e-11	6.9026e-11	6.9026e-11
248	6.9024e-11	6.9024e-11	6.9024e-11
249	6.9023e-11	6.9023e-11	6.9023e-11
250	6.9022e-11	6.9022e-11	6.9022e-11
251	6.9020e-11	6.9021e-11	6.9021e-11
252	6.9019e-11	6.9020e-11	6.9020e-11

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x	$A(x)$	P_{v1}	P_{v2}
253	6.9018e-11	6.9019e-11	6.9019e-11
254	6.9017e-11	6.9017e-11	6.9017e-11
255	6.9016e-11	6.9016e-11	6.9016e-11
256	6.9015e-11	6.9015e-11	6.9015e-11
257	6.9013e-11	6.9014e-11	6.9014e-11
258	6.9012e-11	6.9013e-11	6.9013e-11
259	6.9011e-11	6.9011e-11	6.9011e-11
260	6.9010e-11	6.9010e-11	6.9010e-11
261	6.9009e-11	6.9009e-11	6.9009e-11
262	6.9008e-11	6.9008e-11	6.9008e-11
263	6.9006e-11	6.9007e-11	6.9007e-11
264	6.9005e-11	6.9006e-11	6.9006e-11
265	6.9004e-11	6.9004e-11	6.9004e-11
266	6.9003e-11	6.9003e-11	6.9003e-11
267	6.9002e-11	6.9002e-11	6.9002e-11
268	6.9000e-11	6.9001e-11	6.9001e-11
269	6.8999e-11	6.9000e-11	6.9000e-11
270	6.8998e-11	6.8999e-11	6.8999e-11
271	6.8997e-11	6.8997e-11	6.8997e-11
272	6.8996e-11	6.8996e-11	6.8996e-11
273	6.8995e-11	6.8995e-11	6.8995e-11
274	6.8993e-11	6.8994e-11	6.8994e-11
275	6.8992e-11	6.8993e-11	6.8993e-11
276	6.8991e-11	6.8992e-11	6.8992e-11
277	6.8990e-11	6.8990e-11	6.8990e-11
278	6.8989e-11	6.8989e-11	6.8989e-11
279	6.8988e-11	6.8988e-11	6.8988e-11
280	6.8986e-11	6.8987e-11	6.8987e-11
281	6.8985e-11	6.8986e-11	6.8986e-11
282	6.8984e-11	6.8985e-11	6.8985e-11
283	6.8983e-11	6.8983e-11	6.8983e-11
284	6.8982e-11	6.8982e-11	6.8982e-11
285	6.8981e-11	6.8981e-11	6.8981e-11
286	6.8979e-11	6.8980e-11	6.8980e-11
287	6.8978e-11	6.8979e-11	6.8979e-11
288	6.8977e-11	6.8978e-11	6.8978e-11
289	6.8976e-11	6.8976e-11	6.8976e-11
290	6.8975e-11	6.8975e-11	6.8975e-11
291	6.8974e-11	6.8974e-11	6.8974e-11
292	6.8972e-11	6.8973e-11	6.8973e-11

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x	$A(x)$	P_{v1}	P_{v2}
293	6.8971e-11	6.8972e-11	6.8972e-11
294	6.8970e-11	6.8971e-11	6.8971e-11
295	6.8969e-11	6.8969e-11	6.8969e-11
296	6.8968e-11	6.8968e-11	6.8968e-11
297	6.8967e-11	6.8967e-11	6.8967e-11
298	6.8965e-11	6.8966e-11	6.8966e-11
299	6.8964e-11	6.8965e-11	6.8965e-11
300	6.8963e-11	6.8964e-11	6.8964e-11
301	6.8962e-11	6.8962e-11	6.8962e-11
302	6.8961e-11	6.8961e-11	6.8961e-11
303	6.8959e-11	6.8960e-11	6.8960e-11
304	6.8958e-11	6.8959e-11	6.8959e-11
305	6.8957e-11	6.8958e-11	6.8958e-11
306	6.8956e-11	6.8957e-11	6.8957e-11
307	6.8955e-11	6.8955e-11	6.8955e-11
308	6.8954e-11	6.8954e-11	6.8954e-11
309	6.8952e-11	6.8953e-11	6.8953e-11
310	6.8951e-11	6.8952e-11	6.8952e-11
311	6.8950e-11	6.8951e-11	6.8951e-11
312	6.8949e-11	6.8949e-11	6.8949e-11
313	6.8948e-11	6.8948e-11	6.8948e-11
314	6.8947e-11	6.8947e-11	6.8947e-11
315	6.8945e-11	6.8946e-11	6.8946e-11
316	6.8944e-11	6.8945e-11	6.8945e-11
317	6.8943e-11	6.8944e-11	6.8944e-11
318	6.8942e-11	6.8942e-11	6.8942e-11
319	6.8941e-11	6.8941e-11	6.8941e-11
320	6.8940e-11	6.8940e-11	6.8940e-11
321	6.8938e-11	6.8939e-11	6.8939e-11
322	6.8937e-11	6.8938e-11	6.8938e-11
323	6.8936e-11	6.8937e-11	6.8937e-11
324	6.8935e-11	6.8935e-11	6.8935e-11
325	6.8934e-11	6.8934e-11	6.8934e-11
326	6.8933e-11	6.8933e-11	6.8933e-11
327	6.8931e-11	6.8932e-11	6.8932e-11
328	6.8930e-11	6.8931e-11	6.8931e-11
329	6.8929e-11	6.8930e-11	6.8930e-11
330	6.8928e-11	6.8928e-11	6.8928e-11
331	6.8927e-11	6.8927e-11	6.8927e-11
332	6.8926e-11	6.8926e-11	6.8926e-11

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x	$A(x)$	P_{v1}	P_{v2}
333	6.8924e-11	6.8925e-11	6.8925e-11
334	6.8923e-11	6.8924e-11	6.8924e-11
335	6.8922e-11	6.8923e-11	6.8923e-11
336	6.8921e-11	6.8921e-11	6.8921e-11
337	6.8920e-11	6.8920e-11	6.8920e-11
338	6.8919e-11	6.8919e-11	6.8919e-11
339	6.8917e-11	6.8918e-11	6.8918e-11
340	6.8916e-11	6.8917e-11	6.8917e-11
341	6.8915e-11	6.8916e-11	6.8916e-11
342	6.8914e-11	6.8914e-11	6.8914e-11
343	6.8913e-11	6.8913e-11	6.8913e-11
344	6.8911e-11	6.8912e-11	6.8912e-11
345	6.8910e-11	6.8911e-11	6.8911e-11
346	6.8909e-11	6.8910e-11	6.8910e-11
347	6.8908e-11	6.8909e-11	6.8909e-11
348	6.8907e-11	6.8907e-11	6.8907e-11
349	6.8906e-11	6.8906e-11	6.8906e-11
350	6.8904e-11	6.8905e-11	6.8905e-11
351	6.8903e-11	6.8904e-11	6.8904e-11
352	6.8902e-11	6.8903e-11	6.8903e-11
353	6.8901e-11	6.8902e-11	6.8902e-11
354	6.8900e-11	6.8900e-11	6.8900e-11
355	6.8899e-11	6.8899e-11	6.8899e-11
356	6.8897e-11	6.8898e-11	6.8898e-11
357	6.8896e-11	6.8897e-11	6.8897e-11
358	6.8895e-11	6.8896e-11	6.8896e-11
359	6.8894e-11	6.8895e-11	6.8895e-11
360	6.8893e-11	6.8893e-11	6.8893e-11
361	6.8892e-11	6.8892e-11	6.8892e-11
362	6.8890e-11	6.8891e-11	6.8891e-11
363	6.8889e-11	6.8890e-11	6.8890e-11
364	6.8888e-11	6.8889e-11	6.8889e-11
365	6.8887e-11	6.8888e-11	6.8888e-11
366	6.8886e-11	6.8886e-11	6.8886e-11
367	6.8885e-11	6.8885e-11	6.8885e-11
368	6.8883e-11	6.8884e-11	6.8884e-11
369	6.8882e-11	6.8883e-11	6.8883e-11
370	6.8881e-11	6.8882e-11	6.8882e-11
371	6.8880e-11	6.8881e-11	6.8881e-11
372	6.8879e-11	6.8879e-11	6.8879e-11

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x	$A(x)$	P_{v1}	P_{v2}
373	6.8878e-11	6.8878e-11	6.8878e-11
374	6.8876e-11	6.8877e-11	6.8877e-11
375	6.8875e-11	6.8876e-11	6.8876e-11
376	6.8874e-11	6.8875e-11	6.8875e-11
377	6.8873e-11	6.8873e-11	6.8873e-11
378	6.8872e-11	6.8872e-11	6.8872e-11
379	6.8871e-11	6.8871e-11	6.8871e-11
380	6.8869e-11	6.8870e-11	6.8870e-11
381	6.8868e-11	6.8869e-11	6.8869e-11
382	6.8867e-11	6.8868e-11	6.8868e-11
383	6.8866e-11	6.8866e-11	6.8866e-11
384	6.8865e-11	6.8865e-11	6.8865e-11
385	6.8863e-11	6.8864e-11	6.8864e-11
386	6.8862e-11	6.8863e-11	6.8863e-11
387	6.8861e-11	6.8862e-11	6.8862e-11
388	6.8860e-11	6.8861e-11	6.8861e-11
389	6.8859e-11	6.8859e-11	6.8859e-11
390	6.8858e-11	6.8858e-11	6.8858e-11
391	6.8856e-11	6.8857e-11	6.8857e-11
392	6.8855e-11	6.8856e-11	6.8856e-11
393	6.8854e-11	6.8855e-11	6.8855e-11
394	6.8853e-11	6.8854e-11	6.8854e-11
395	6.8852e-11	6.8852e-11	6.8852e-11
396	6.8851e-11	6.8851e-11	6.8851e-11
397	6.8849e-11	6.8850e-11	6.8850e-11
398	6.8848e-11	6.8849e-11	6.8849e-11
399	6.8847e-11	6.8848e-11	6.8848e-11
400	6.8846e-11	6.8847e-11	6.8847e-11
401	6.8845e-11	6.8845e-11	6.8845e-11
402	6.8844e-11	6.8844e-11	6.8844e-11
403	6.8842e-11	6.8843e-11	6.8843e-11
404	6.8841e-11	6.8842e-11	6.8842e-11
405	6.8840e-11	6.8841e-11	6.8841e-11
406	6.8839e-11	6.8840e-11	6.8840e-11
407	6.8838e-11	6.8838e-11	6.8838e-11
408	6.8837e-11	6.8837e-11	6.8837e-11
409	6.8835e-11	6.8836e-11	6.8836e-11
410	6.8834e-11	6.8835e-11	6.8835e-11
411	6.8833e-11	6.8834e-11	6.8834e-11
412	6.8832e-11	6.8833e-11	6.8833e-11

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x	$A(x)$	P_{v1}	P_{v2}
413	6.8831e-11	6.8831e-11	6.8831e-11
414	6.8830e-11	6.8830e-11	6.8830e-11
415	6.8828e-11	6.8829e-11	6.8829e-11
416	6.8827e-11	6.8828e-11	6.8828e-11
417	6.8826e-11	6.8827e-11	6.8827e-11
418	6.8825e-11	6.8826e-11	6.8826e-11
419	6.8824e-11	6.8824e-11	6.8824e-11
420	6.8823e-11	6.8823e-11	6.8823e-11
421	6.8821e-11	6.8822e-11	6.8822e-11
422	6.8820e-11	6.8821e-11	6.8821e-11
423	6.8819e-11	6.8820e-11	6.8820e-11
424	6.8818e-11	6.8819e-11	6.8819e-11
425	6.8817e-11	6.8817e-11	6.8817e-11
426	6.8816e-11	6.8816e-11	6.8816e-11
427	6.8814e-11	6.8815e-11	6.8815e-11
428	6.8813e-11	6.8814e-11	6.8814e-11
429	6.8812e-11	6.8813e-11	6.8813e-11
430	6.8811e-11	6.8812e-11	6.8812e-11
431	6.8810e-11	6.8810e-11	6.8810e-11
432	6.8808e-11	6.8809e-11	6.8809e-11
433	6.8807e-11	6.8808e-11	6.8808e-11
434	6.8806e-11	6.8807e-11	6.8807e-11
435	6.8805e-11	6.8806e-11	6.8806e-11
436	6.8804e-11	6.8805e-11	6.8805e-11
437	6.8803e-11	6.8803e-11	6.8803e-11
438	6.8801e-11	6.8802e-11	6.8802e-11
439	6.8800e-11	6.8801e-11	6.8801e-11
440	6.8799e-11	6.8800e-11	6.8800e-11
441	6.8798e-11	6.8799e-11	6.8799e-11
442	6.8797e-11	6.8798e-11	6.8798e-11
443	6.8796e-11	6.8796e-11	6.8796e-11
444	6.8794e-11	6.8795e-11	6.8795e-11
445	6.8793e-11	6.8794e-11	6.8794e-11
446	6.8792e-11	6.8793e-11	6.8793e-11
447	6.8791e-11	6.8792e-11	6.8792e-11
448	6.8790e-11	6.8791e-11	6.8791e-11
449	6.8789e-11	6.8789e-11	6.8789e-11
450	6.8787e-11	6.8788e-11	6.8788e-11
451	6.8786e-11	6.8787e-11	6.8787e-11
452	6.8785e-11	6.8786e-11	6.8786e-11

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x	$A(x)$	P_{v1}	P_{v2}
453	6.8784e-11	6.8785e-11	6.8785e-11
454	6.8783e-11	6.8784e-11	6.8784e-11
455	6.8782e-11	6.8782e-11	6.8782e-11
456	6.8780e-11	6.8781e-11	6.8781e-11
457	6.8779e-11	6.8780e-11	6.8780e-11
458	6.8778e-11	6.8779e-11	6.8779e-11
459	6.8777e-11	6.8778e-11	6.8778e-11
460	6.8776e-11	6.8777e-11	6.8777e-11
461	6.8775e-11	6.8775e-11	6.8775e-11
462	6.8773e-11	6.8774e-11	6.8774e-11
463	6.8772e-11	6.8773e-11	6.8773e-11
464	6.8771e-11	6.8772e-11	6.8772e-11
465	6.8770e-11	6.8771e-11	6.8771e-11
466	6.8769e-11	6.8770e-11	6.8770e-11
467	6.8768e-11	6.8768e-11	6.8768e-11
468	6.8766e-11	6.8767e-11	6.8767e-11
469	6.8765e-11	6.8766e-11	6.8766e-11
470	6.8764e-11	6.8765e-11	6.8765e-11
471	6.8763e-11	6.8764e-11	6.8764e-11
472	6.8762e-11	6.8763e-11	6.8763e-11
473	6.8761e-11	6.8761e-11	6.8761e-11
474	6.8759e-11	6.8760e-11	6.8760e-11
475	6.8758e-11	6.8759e-11	6.8759e-11
476	6.8757e-11	6.8758e-11	6.8758e-11
477	6.8756e-11	6.8757e-11	6.8757e-11
478	6.8755e-11	6.8756e-11	6.8756e-11
479	6.8753e-11	6.8754e-11	6.8754e-11
480	6.8752e-11	6.8753e-11	6.8753e-11
481	6.8751e-11	6.8752e-11	6.8752e-11
482	6.8750e-11	6.8751e-11	6.8751e-11
483	6.8749e-11	6.8750e-11	6.8750e-11
484	6.8748e-11	6.8749e-11	6.8749e-11
485	6.8746e-11	6.8747e-11	6.8747e-11
486	6.8745e-11	6.8746e-11	6.8746e-11
487	6.8744e-11	6.8745e-11	6.8745e-11
488	6.8743e-11	6.8744e-11	6.8744e-11
489	6.8742e-11	6.8743e-11	6.8743e-11
490	6.8741e-11	6.8742e-11	6.8742e-11
491	6.8739e-11	6.8740e-11	6.8740e-11
492	6.8738e-11	6.8739e-11	6.8739e-11

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x	$A(x)$	P_{v1}	P_{v2}
493	6.8737e-11	6.8738e-11	6.8738e-11
494	6.8736e-11	6.8737e-11	6.8737e-11
495	6.8735e-11	6.8736e-11	6.8736e-11
496	6.8734e-11	6.8735e-11	6.8735e-11
497	6.8732e-11	6.8733e-11	6.8733e-11
498	6.8731e-11	6.8732e-11	6.8732e-11
499	6.8730e-11	6.8731e-11	6.8731e-11
500	6.8729e-11	6.8730e-11	6.8730e-11
501	6.8728e-11	6.8729e-11	6.8729e-11
502	6.8727e-11	6.8728e-11	6.8728e-11
503	6.8725e-11	6.8726e-11	6.8726e-11
504	6.8724e-11	6.8725e-11	6.8725e-11
505	6.8723e-11	6.8724e-11	6.8724e-11
506	6.8722e-11	6.8723e-11	6.8723e-11
507	6.8721e-11	6.8722e-11	6.8722e-11
508	6.8720e-11	6.8721e-11	6.8721e-11
509	6.8718e-11	6.8719e-11	6.8719e-11
510	6.8717e-11	6.8718e-11	6.8718e-11
511	6.8716e-11	6.8717e-11	6.8717e-11
512	6.8715e-11	6.8716e-11	6.8716e-11
513	6.8714e-11	6.8715e-11	6.8715e-11
514	6.8713e-11	6.8714e-11	6.8714e-11
515	6.8711e-11	6.8712e-11	6.8712e-11
516	6.8710e-11	6.8711e-11	6.8711e-11
517	6.8709e-11	6.8710e-11	6.8710e-11
518	6.8708e-11	6.8709e-11	6.8709e-11
519	6.8707e-11	6.8708e-11	6.8708e-11
520	6.8706e-11	6.8707e-11	6.8707e-11
521	6.8704e-11	6.8705e-11	6.8705e-11
522	6.8703e-11	6.8704e-11	6.8704e-11
523	6.8702e-11	6.8703e-11	6.8703e-11
524	6.8701e-11	6.8702e-11	6.8702e-11
525	6.8700e-11	6.8701e-11	6.8701e-11
526	6.8699e-11	6.8700e-11	6.8700e-11
527	6.8697e-11	6.8698e-11	6.8698e-11
528	6.8696e-11	6.8697e-11	6.8697e-11
529	6.8695e-11	6.8696e-11	6.8696e-11
530	6.8694e-11	6.8695e-11	6.8695e-11
531	6.8693e-11	6.8694e-11	6.8694e-11
532	6.8692e-11	6.8693e-11	6.8693e-11

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x	$A(x)$	P_{v1}	P_{v2}
533	6.8690e-11	6.8691e-11	6.8691e-11
534	6.8689e-11	6.8690e-11	6.8690e-11
535	6.8688e-11	6.8689e-11	6.8689e-11
536	6.8687e-11	6.8688e-11	6.8688e-11
537	6.8686e-11	6.8687e-11	6.8687e-11
538	6.8685e-11	6.8686e-11	6.8686e-11
539	6.8683e-11	6.8684e-11	6.8684e-11
540	6.8682e-11	6.8683e-11	6.8683e-11
541	6.8681e-11	6.8682e-11	6.8682e-11
542	6.8680e-11	6.8681e-11	6.8681e-11
543	6.8679e-11	6.8680e-11	6.8680e-11
544	6.8677e-11	6.8679e-11	6.8679e-11
545	6.8676e-11	6.8677e-11	6.8677e-11
546	6.8675e-11	6.8676e-11	6.8676e-11
547	6.8674e-11	6.8675e-11	6.8675e-11
548	6.8673e-11	6.8674e-11	6.8674e-11
549	6.8672e-11	6.8673e-11	6.8673e-11
550	6.8670e-11	6.8672e-11	6.8672e-11
551	6.8669e-11	6.8670e-11	6.8670e-11
552	6.8668e-11	6.8669e-11	6.8669e-11
553	6.8667e-11	6.8668e-11	6.8668e-11
554	6.8666e-11	6.8667e-11	6.8667e-11
555	6.8665e-11	6.8666e-11	6.8666e-11
556	6.8663e-11	6.8665e-11	6.8665e-11
557	6.8662e-11	6.8663e-11	6.8663e-11
558	6.8661e-11	6.8662e-11	6.8662e-11
559	6.8660e-11	6.8661e-11	6.8661e-11
560	6.8659e-11	6.8660e-11	6.8660e-11
561	6.8658e-11	6.8659e-11	6.8659e-11
562	6.8656e-11	6.8658e-11	6.8658e-11
563	6.8655e-11	6.8656e-11	6.8656e-11
564	6.8654e-11	6.8655e-11	6.8655e-11
565	6.8653e-11	6.8654e-11	6.8654e-11
566	6.8652e-11	6.8653e-11	6.8653e-11
567	6.8651e-11	6.8652e-11	6.8652e-11
568	6.8649e-11	6.8651e-11	6.8651e-11
569	6.8648e-11	6.8649e-11	6.8649e-11
570	6.8647e-11	6.8648e-11	6.8648e-11
571	6.8646e-11	6.8647e-11	6.8647e-11
572	6.8645e-11	6.8646e-11	6.8646e-11

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x	$A(x)$	P_{v1}	P_{v2}
573	6.8644e-11	6.8645e-11	6.8645e-11
574	6.8642e-11	6.8644e-11	6.8644e-11
575	6.8641e-11	6.8642e-11	6.8642e-11
576	6.8640e-11	6.8641e-11	6.8641e-11
577	6.8639e-11	6.8640e-11	6.8640e-11
578	6.8638e-11	6.8639e-11	6.8639e-11
579	6.8637e-11	6.8638e-11	6.8638e-11
580	6.8635e-11	6.8637e-11	6.8637e-11
581	6.8634e-11	6.8635e-11	6.8635e-11
582	6.8633e-11	6.8634e-11	6.8634e-11
583	6.8632e-11	6.8633e-11	6.8633e-11
584	6.8631e-11	6.8632e-11	6.8632e-11
585	6.8630e-11	6.8631e-11	6.8631e-11
586	6.8628e-11	6.8630e-11	6.8630e-11
587	6.8627e-11	6.8628e-11	6.8628e-11
588	6.8626e-11	6.8627e-11	6.8627e-11
589	6.8625e-11	6.8626e-11	6.8626e-11
590	6.8624e-11	6.8625e-11	6.8625e-11
591	6.8623e-11	6.8624e-11	6.8624e-11
592	6.8621e-11	6.8623e-11	6.8623e-11
593	6.8620e-11	6.8621e-11	6.8621e-11
594	6.8619e-11	6.8620e-11	6.8620e-11
595	6.8618e-11	6.8619e-11	6.8619e-11
596	6.8617e-11	6.8618e-11	6.8618e-11
597	6.8616e-11	6.8617e-11	6.8617e-11
598	6.8614e-11	6.8616e-11	6.8616e-11
599	6.8613e-11	6.8614e-11	6.8614e-11
600	6.8612e-11	6.8613e-11	6.8613e-11
601	6.8611e-11	6.8612e-11	6.8612e-11
602	6.8610e-11	6.8611e-11	6.8611e-11
603	6.8609e-11	6.8610e-11	6.8610e-11
604	6.8607e-11	6.8609e-11	6.8609e-11
605	6.8606e-11	6.8607e-11	6.8607e-11
606	6.8605e-11	6.8606e-11	6.8606e-11
607	6.8604e-11	6.8605e-11	6.8605e-11
608	6.8603e-11	6.8604e-11	6.8604e-11
609	6.8602e-11	6.8603e-11	6.8603e-11
610	6.8600e-11	6.8602e-11	6.8602e-11
611	6.8599e-11	6.8600e-11	6.8600e-11
612	6.8598e-11	6.8599e-11	6.8599e-11

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x	$A(x)$	P_{v1}	P_{v2}
613	6.8597e-11	6.8598e-11	6.8598e-11
614	6.8596e-11	6.8597e-11	6.8597e-11
615	6.8594e-11	6.8596e-11	6.8596e-11
616	6.8593e-11	6.8595e-11	6.8595e-11
617	6.8592e-11	6.8593e-11	6.8593e-11
618	6.8591e-11	6.8592e-11	6.8592e-11
619	6.8590e-11	6.8591e-11	6.8591e-11
620	6.8589e-11	6.8590e-11	6.8590e-11
621	6.8587e-11	6.8589e-11	6.8589e-11
622	6.8586e-11	6.8588e-11	6.8588e-11
623	6.8585e-11	6.8586e-11	6.8586e-11
624	6.8584e-11	6.8585e-11	6.8585e-11
625	6.8583e-11	6.8584e-11	6.8584e-11
626	6.8582e-11	6.8583e-11	6.8583e-11
627	6.8580e-11	6.8582e-11	6.8582e-11
628	6.8579e-11	6.8581e-11	6.8581e-11
629	6.8578e-11	6.8579e-11	6.8579e-11
630	6.8577e-11	6.8578e-11	6.8578e-11
631	6.8576e-11	6.8577e-11	6.8577e-11
632	6.8575e-11	6.8576e-11	6.8576e-11
633	6.8573e-11	6.8575e-11	6.8575e-11
634	6.8572e-11	6.8574e-11	6.8574e-11
635	6.8571e-11	6.8572e-11	6.8572e-11
636	6.8570e-11	6.8571e-11	6.8571e-11
637	6.8569e-11	6.8570e-11	6.8570e-11
638	6.8568e-11	6.8569e-11	6.8569e-11
639	6.8566e-11	6.8568e-11	6.8568e-11
640	6.8565e-11	6.8567e-11	6.8567e-11
641	6.8564e-11	6.8565e-11	6.8565e-11
642	6.8563e-11	6.8564e-11	6.8564e-11
643	6.8562e-11	6.8563e-11	6.8563e-11
644	6.8561e-11	6.8562e-11	6.8562e-11
645	6.8559e-11	6.8561e-11	6.8561e-11
646	6.8558e-11	6.8560e-11	6.8560e-11
647	6.8557e-11	6.8558e-11	6.8558e-11
648	6.8556e-11	6.8557e-11	6.8557e-11
649	6.8555e-11	6.8556e-11	6.8556e-11
650	6.8554e-11	6.8555e-11	6.8555e-11
651	6.8552e-11	6.8554e-11	6.8554e-11
652	6.8551e-11	6.8553e-11	6.8553e-11

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x	$A(x)$	P_{v1}	P_{v2}
653	6.8550e-11	6.8551e-11	6.8551e-11
654	6.8549e-11	6.8550e-11	6.8550e-11
655	6.8548e-11	6.8549e-11	6.8549e-11
656	6.8547e-11	6.8548e-11	6.8548e-11
657	6.8545e-11	6.8547e-11	6.8547e-11
658	6.8544e-11	6.8546e-11	6.8546e-11
659	6.8543e-11	6.8544e-11	6.8544e-11
660	6.8542e-11	6.8543e-11	6.8543e-11
661	6.8541e-11	6.8542e-11	6.8542e-11
662	6.8540e-11	6.8541e-11	6.8541e-11
663	6.8538e-11	6.8540e-11	6.8540e-11
664	6.8537e-11	6.8539e-11	6.8539e-11
665	6.8536e-11	6.8537e-11	6.8537e-11
666	6.8535e-11	6.8536e-11	6.8536e-11
667	6.8534e-11	6.8535e-11	6.8535e-11
668	6.8533e-11	6.8534e-11	6.8534e-11
669	6.8531e-11	6.8533e-11	6.8533e-11
670	6.8530e-11	6.8532e-11	6.8532e-11
671	6.8529e-11	6.8530e-11	6.8530e-11
672	6.8528e-11	6.8529e-11	6.8529e-11
673	6.8527e-11	6.8528e-11	6.8528e-11
674	6.8526e-11	6.8527e-11	6.8527e-11
675	6.8524e-11	6.8526e-11	6.8526e-11
676	6.8523e-11	6.8525e-11	6.8525e-11
677	6.8522e-11	6.8523e-11	6.8523e-11
678	6.8521e-11	6.8522e-11	6.8522e-11
679	6.8520e-11	6.8521e-11	6.8521e-11
680	6.8519e-11	6.8520e-11	6.8520e-11
681	6.8517e-11	6.8519e-11	6.8519e-11
682	6.8516e-11	6.8518e-11	6.8518e-11
683	6.8515e-11	6.8516e-11	6.8516e-11
684	6.8514e-11	6.8515e-11	6.8515e-11
685	6.8513e-11	6.8514e-11	6.8514e-11
686	6.8512e-11	6.8513e-11	6.8513e-11
687	6.8510e-11	6.8512e-11	6.8512e-11
688	6.8509e-11	6.8511e-11	6.8511e-11
689	6.8508e-11	6.8509e-11	6.8509e-11
690	6.8507e-11	6.8508e-11	6.8508e-11
691	6.8506e-11	6.8507e-11	6.8507e-11
692	6.8505e-11	6.8506e-11	6.8506e-11

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x	$A(x)$	P_{v1}	P_{v2}
693	6.8503e-11	6.8505e-11	6.8505e-11
694	6.8502e-11	6.8504e-11	6.8504e-11
695	6.8501e-11	6.8503e-11	6.8503e-11
696	6.8500e-11	6.8501e-11	6.8501e-11
697	6.8499e-11	6.8500e-11	6.8500e-11
698	6.8498e-11	6.8499e-11	6.8499e-11
699	6.8496e-11	6.8498e-11	6.8498e-11
700	6.8495e-11	6.8497e-11	6.8497e-11
701	6.8494e-11	6.8496e-11	6.8496e-11
702	6.8493e-11	6.8494e-11	6.8494e-11
703	6.8492e-11	6.8493e-11	6.8493e-11
704	6.8491e-11	6.8492e-11	6.8492e-11
705	6.8489e-11	6.8491e-11	6.8491e-11
706	6.8488e-11	6.8490e-11	6.8490e-11
707	6.8487e-11	6.8489e-11	6.8489e-11
708	6.8486e-11	6.8487e-11	6.8487e-11
709	6.8485e-11	6.8486e-11	6.8486e-11
710	6.8484e-11	6.8485e-11	6.8485e-11
711	6.8482e-11	6.8484e-11	6.8484e-11
712	6.8481e-11	6.8483e-11	6.8483e-11
713	6.8480e-11	6.8482e-11	6.8482e-11
714	6.8479e-11	6.8480e-11	6.8480e-11
715	6.8478e-11	6.8479e-11	6.8479e-11
716	6.8477e-11	6.8478e-11	6.8478e-11
717	6.8475e-11	6.8477e-11	6.8477e-11
718	6.8474e-11	6.8476e-11	6.8476e-11
719	6.8473e-11	6.8475e-11	6.8475e-11
720	6.8472e-11	6.8473e-11	6.8473e-11
721	6.8471e-11	6.8472e-11	6.8472e-11
722	6.8470e-11	6.8471e-11	6.8471e-11
723	6.8468e-11	6.8470e-11	6.8470e-11
724	6.8467e-11	6.8469e-11	6.8469e-11
725	6.8466e-11	6.8468e-11	6.8468e-11
726	6.8465e-11	6.8466e-11	6.8466e-11
727	6.8464e-11	6.8465e-11	6.8465e-11
728	6.8462e-11	6.8464e-11	6.8464e-11
729	6.8461e-11	6.8463e-11	6.8463e-11
730	6.8460e-11	6.8462e-11	6.8462e-11
731	6.8459e-11	6.8461e-11	6.8461e-11
732	6.8458e-11	6.8459e-11	6.8459e-11

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x	$A(x)$	P_{v1}	P_{v2}
733	6.8457e-11	6.8458e-11	6.8458e-11
734	6.8455e-11	6.8457e-11	6.8457e-11
735	6.8454e-11	6.8456e-11	6.8456e-11
736	6.8453e-11	6.8455e-11	6.8455e-11
737	6.8452e-11	6.8454e-11	6.8454e-11
738	6.8451e-11	6.8452e-11	6.8452e-11
739	6.8450e-11	6.8451e-11	6.8451e-11
740	6.8448e-11	6.8450e-11	6.8450e-11
741	6.8447e-11	6.8449e-11	6.8449e-11
742	6.8446e-11	6.8448e-11	6.8448e-11
743	6.8445e-11	6.8447e-11	6.8447e-11
744	6.8444e-11	6.8445e-11	6.8445e-11
745	6.8443e-11	6.8444e-11	6.8444e-11
746	6.8441e-11	6.8443e-11	6.8443e-11
747	6.8440e-11	6.8442e-11	6.8442e-11
748	6.8439e-11	6.8441e-11	6.8441e-11
749	6.8438e-11	6.8440e-11	6.8440e-11
750	6.8437e-11	6.8438e-11	6.8438e-11
751	6.8436e-11	6.8437e-11	6.8437e-11
752	6.8434e-11	6.8436e-11	6.8436e-11
753	6.8433e-11	6.8435e-11	6.8435e-11
754	6.8432e-11	6.8434e-11	6.8434e-11
755	6.8431e-11	6.8433e-11	6.8433e-11
756	6.8430e-11	6.8431e-11	6.8431e-11
757	6.8429e-11	6.8430e-11	6.8430e-11
758	6.8427e-11	6.8429e-11	6.8429e-11
759	6.8426e-11	6.8428e-11	6.8428e-11
760	6.8425e-11	6.8427e-11	6.8427e-11
761	6.8424e-11	6.8426e-11	6.8426e-11
762	6.8423e-11	6.8425e-11	6.8425e-11
763	6.8422e-11	6.8423e-11	6.8423e-11
764	6.8420e-11	6.8422e-11	6.8422e-11
765	6.8419e-11	6.8421e-11	6.8421e-11
766	6.8418e-11	6.8420e-11	6.8420e-11
767	6.8417e-11	6.8419e-11	6.8419e-11
768	6.8416e-11	6.8418e-11	6.8418e-11
769	6.8415e-11	6.8416e-11	6.8416e-11
770	6.8413e-11	6.8415e-11	6.8415e-11
771	6.8412e-11	6.8414e-11	6.8414e-11
772	6.8411e-11	6.8413e-11	6.8413e-11

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x	$A(x)$	P_{v1}	P_{v2}
773	6.8410e-11	6.8412e-11	6.8412e-11
774	6.8409e-11	6.8411e-11	6.8411e-11
775	6.8408e-11	6.8409e-11	6.8409e-11
776	6.8406e-11	6.8408e-11	6.8408e-11
777	6.8405e-11	6.8407e-11	6.8407e-11
778	6.8404e-11	6.8406e-11	6.8406e-11
779	6.8403e-11	6.8405e-11	6.8405e-11
780	6.8402e-11	6.8404e-11	6.8404e-11
781	6.8401e-11	6.8402e-11	6.8402e-11
782	6.8399e-11	6.8401e-11	6.8401e-11
783	6.8398e-11	6.8400e-11	6.8400e-11
784	6.8397e-11	6.8399e-11	6.8399e-11
785	6.8396e-11	6.8398e-11	6.8398e-11
786	6.8395e-11	6.8397e-11	6.8397e-11
787	6.8394e-11	6.8395e-11	6.8395e-11
788	6.8392e-11	6.8394e-11	6.8394e-11
789	6.8391e-11	6.8393e-11	6.8393e-11
790	6.8390e-11	6.8392e-11	6.8392e-11
791	6.8389e-11	6.8391e-11	6.8391e-11
792	6.8388e-11	6.8390e-11	6.8390e-11
793	6.8387e-11	6.8388e-11	6.8388e-11
794	6.8385e-11	6.8387e-11	6.8387e-11
795	6.8384e-11	6.8386e-11	6.8386e-11
796	6.8383e-11	6.8385e-11	6.8385e-11
797	6.8382e-11	6.8384e-11	6.8384e-11
798	6.8381e-11	6.8383e-11	6.8383e-11
799	6.8380e-11	6.8381e-11	6.8381e-11
800	6.8378e-11	6.8380e-11	6.8380e-11
801	6.8377e-11	6.8379e-11	6.8379e-11
802	6.8376e-11	6.8378e-11	6.8378e-11
803	6.8375e-11	6.8377e-11	6.8377e-11
804	6.8374e-11	6.8376e-11	6.8376e-11
805	6.8373e-11	6.8374e-11	6.8374e-11
806	6.8371e-11	6.8373e-11	6.8373e-11
807	6.8370e-11	6.8372e-11	6.8372e-11
808	6.8369e-11	6.8371e-11	6.8371e-11
809	6.8368e-11	6.8370e-11	6.8370e-11
810	6.8367e-11	6.8369e-11	6.8369e-11
811	6.8366e-11	6.8368e-11	6.8368e-11
812	6.8364e-11	6.8366e-11	6.8366e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
813	6.8363e-11	6.8365e-11	6.8365e-11
814	6.8362e-11	6.8364e-11	6.8364e-11
815	6.8361e-11	6.8363e-11	6.8363e-11
816	6.8360e-11	6.8362e-11	6.8362e-11
817	6.8359e-11	6.8361e-11	6.8361e-11
818	6.8357e-11	6.8359e-11	6.8359e-11
819	6.8356e-11	6.8358e-11	6.8358e-11
820	6.8355e-11	6.8357e-11	6.8357e-11
821	6.8354e-11	6.8356e-11	6.8356e-11
822	6.8353e-11	6.8355e-11	6.8355e-11
823	6.8352e-11	6.8354e-11	6.8354e-11
824	6.8350e-11	6.8352e-11	6.8352e-11
825	6.8349e-11	6.8351e-11	6.8351e-11
826	6.8348e-11	6.8350e-11	6.8350e-11
827	6.8347e-11	6.8349e-11	6.8349e-11
828	6.8346e-11	6.8348e-11	6.8348e-11
829	6.8345e-11	6.8347e-11	6.8347e-11
830	6.8343e-11	6.8345e-11	6.8345e-11
831	6.8342e-11	6.8344e-11	6.8344e-11
832	6.8341e-11	6.8343e-11	6.8343e-11
833	6.8340e-11	6.8342e-11	6.8342e-11
834	6.8339e-11	6.8341e-11	6.8341e-11
835	6.8338e-11	6.8340e-11	6.8340e-11
836	6.8336e-11	6.8338e-11	6.8338e-11
837	6.8335e-11	6.8337e-11	6.8337e-11
838	6.8334e-11	6.8336e-11	6.8336e-11
839	6.8333e-11	6.8335e-11	6.8335e-11
840	6.8332e-11	6.8334e-11	6.8334e-11
841	6.8331e-11	6.8333e-11	6.8333e-11
842	6.8329e-11	6.8331e-11	6.8331e-11
843	6.8328e-11	6.8330e-11	6.8330e-11
844	6.8327e-11	6.8329e-11	6.8329e-11
845	6.8326e-11	6.8328e-11	6.8328e-11
846	6.8325e-11	6.8327e-11	6.8327e-11
847	6.8324e-11	6.8326e-11	6.8326e-11
848	6.8322e-11	6.8324e-11	6.8324e-11
849	6.8321e-11	6.8323e-11	6.8323e-11
850	6.8320e-11	6.8322e-11	6.8322e-11
851	6.8319e-11	6.8321e-11	6.8321e-11
852	6.8318e-11	6.8320e-11	6.8320e-11

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x	$A(x)$	P_{v1}	P_{v2}
853	6.8317e-11	6.8319e-11	6.8319e-11
854	6.8315e-11	6.8318e-11	6.8318e-11
855	6.8314e-11	6.8316e-11	6.8316e-11
856	6.8313e-11	6.8315e-11	6.8315e-11
857	6.8312e-11	6.8314e-11	6.8314e-11
858	6.8311e-11	6.8313e-11	6.8313e-11
859	6.8310e-11	6.8312e-11	6.8312e-11
860	6.8308e-11	6.8311e-11	6.8311e-11
861	6.8307e-11	6.8309e-11	6.8309e-11
862	6.8306e-11	6.8308e-11	6.8308e-11
863	6.8305e-11	6.8307e-11	6.8307e-11
864	6.8304e-11	6.8306e-11	6.8306e-11
865	6.8303e-11	6.8305e-11	6.8305e-11
866	6.8301e-11	6.8304e-11	6.8304e-11
867	6.8300e-11	6.8302e-11	6.8302e-11
868	6.8299e-11	6.8301e-11	6.8301e-11
869	6.8298e-11	6.8300e-11	6.8300e-11
870	6.8297e-11	6.8299e-11	6.8299e-11
871	6.8296e-11	6.8298e-11	6.8298e-11
872	6.8294e-11	6.8297e-11	6.8297e-11
873	6.8293e-11	6.8295e-11	6.8295e-11
874	6.8292e-11	6.8294e-11	6.8294e-11
875	6.8291e-11	6.8293e-11	6.8293e-11
876	6.8290e-11	6.8292e-11	6.8292e-11
877	6.8289e-11	6.8291e-11	6.8291e-11
878	6.8287e-11	6.8290e-11	6.8290e-11
879	6.8286e-11	6.8288e-11	6.8288e-11
880	6.8285e-11	6.8287e-11	6.8287e-11
881	6.8284e-11	6.8286e-11	6.8286e-11
882	6.8283e-11	6.8285e-11	6.8285e-11
883	6.8282e-11	6.8284e-11	6.8284e-11
884	6.8280e-11	6.8283e-11	6.8283e-11
885	6.8279e-11	6.8281e-11	6.8281e-11
886	6.8278e-11	6.8280e-11	6.8280e-11
887	6.8277e-11	6.8279e-11	6.8279e-11
888	6.8276e-11	6.8278e-11	6.8278e-11
889	6.8275e-11	6.8277e-11	6.8277e-11
890	6.8273e-11	6.8276e-11	6.8276e-11
891	6.8272e-11	6.8275e-11	6.8275e-11
892	6.8271e-11	6.8273e-11	6.8273e-11

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x	$A(x)$	P_{v1}	P_{v2}
893	6.8270e-11	6.8272e-11	6.8272e-11
894	6.8269e-11	6.8271e-11	6.8271e-11
895	6.8268e-11	6.8270e-11	6.8270e-11
896	6.8266e-11	6.8269e-11	6.8269e-11
897	6.8265e-11	6.8268e-11	6.8268e-11
898	6.8264e-11	6.8266e-11	6.8266e-11
899	6.8263e-11	6.8265e-11	6.8265e-11
900	6.8262e-11	6.8264e-11	6.8264e-11
901	6.8261e-11	6.8263e-11	6.8263e-11
902	6.8259e-11	6.8262e-11	6.8262e-11
903	6.8258e-11	6.8261e-11	6.8261e-11
904	6.8257e-11	6.8259e-11	6.8259e-11
905	6.8256e-11	6.8258e-11	6.8258e-11
906	6.8255e-11	6.8257e-11	6.8257e-11
907	6.8254e-11	6.8256e-11	6.8256e-11
908	6.8252e-11	6.8255e-11	6.8255e-11
909	6.8251e-11	6.8254e-11	6.8254e-11
910	6.8250e-11	6.8252e-11	6.8252e-11
911	6.8249e-11	6.8251e-11	6.8251e-11
912	6.8248e-11	6.8250e-11	6.8250e-11
913	6.8247e-11	6.8249e-11	6.8249e-11
914	6.8245e-11	6.8248e-11	6.8248e-11
915	6.8244e-11	6.8247e-11	6.8247e-11
916	6.8243e-11	6.8245e-11	6.8245e-11
917	6.8242e-11	6.8244e-11	6.8244e-11
918	6.8241e-11	6.8243e-11	6.8243e-11
919	6.8240e-11	6.8242e-11	6.8242e-11
920	6.8238e-11	6.8241e-11	6.8241e-11
921	6.8237e-11	6.8240e-11	6.8240e-11
922	6.8236e-11	6.8238e-11	6.8238e-11
923	6.8235e-11	6.8237e-11	6.8237e-11
924	6.8234e-11	6.8236e-11	6.8236e-11
925	6.8233e-11	6.8235e-11	6.8235e-11
926	6.8231e-11	6.8234e-11	6.8234e-11
927	6.8230e-11	6.8233e-11	6.8233e-11
928	6.8229e-11	6.8232e-11	6.8232e-11
929	6.8228e-11	6.8230e-11	6.8230e-11
930	6.8227e-11	6.8229e-11	6.8229e-11
931	6.8226e-11	6.8228e-11	6.8228e-11
932	6.8224e-11	6.8227e-11	6.8227e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
933	6.8223e-11	6.8226e-11	6.8226e-11
934	6.8222e-11	6.8225e-11	6.8225e-11
935	6.8221e-11	6.8223e-11	6.8223e-11
936	6.8220e-11	6.8222e-11	6.8222e-11
937	6.8219e-11	6.8221e-11	6.8221e-11
938	6.8217e-11	6.8220e-11	6.8220e-11
939	6.8216e-11	6.8219e-11	6.8219e-11
940	6.8215e-11	6.8218e-11	6.8218e-11
941	6.8214e-11	6.8216e-11	6.8216e-11
942	6.8213e-11	6.8215e-11	6.8215e-11
943	6.8212e-11	6.8214e-11	6.8214e-11
944	6.8210e-11	6.8213e-11	6.8213e-11
945	6.8209e-11	6.8212e-11	6.8212e-11
946	6.8208e-11	6.8211e-11	6.8211e-11
947	6.8207e-11	6.8209e-11	6.8209e-11
948	6.8206e-11	6.8208e-11	6.8208e-11
949	6.8205e-11	6.8207e-11	6.8207e-11
950	6.8203e-11	6.8206e-11	6.8206e-11
951	6.8202e-11	6.8205e-11	6.8205e-11
952	6.8201e-11	6.8204e-11	6.8204e-11
953	6.8200e-11	6.8202e-11	6.8202e-11
954	6.8199e-11	6.8201e-11	6.8201e-11
955	6.8198e-11	6.8200e-11	6.8200e-11
956	6.8196e-11	6.8199e-11	6.8199e-11
957	6.8195e-11	6.8198e-11	6.8198e-11
958	6.8194e-11	6.8197e-11	6.8197e-11
959	6.8193e-11	6.8196e-11	6.8196e-11
960	6.8192e-11	6.8194e-11	6.8194e-11
961	6.8191e-11	6.8193e-11	6.8193e-11
962	6.8189e-11	6.8192e-11	6.8192e-11
963	6.8188e-11	6.8191e-11	6.8191e-11
964	6.8187e-11	6.8190e-11	6.8190e-11
965	6.8186e-11	6.8189e-11	6.8189e-11
966	6.8185e-11	6.8187e-11	6.8187e-11
967	6.8184e-11	6.8186e-11	6.8186e-11
968	6.8182e-11	6.8185e-11	6.8185e-11
969	6.8181e-11	6.8184e-11	6.8184e-11
970	6.8180e-11	6.8183e-11	6.8183e-11
971	6.8179e-11	6.8182e-11	6.8182e-11
972	6.8178e-11	6.8180e-11	6.8180e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
973	6.8177e-11	6.8179e-11	6.8179e-11
974	6.8175e-11	6.8178e-11	6.8178e-11
975	6.8174e-11	6.8177e-11	6.8177e-11
976	6.8173e-11	6.8176e-11	6.8176e-11
977	6.8172e-11	6.8175e-11	6.8175e-11
978	6.8171e-11	6.8173e-11	6.8173e-11
979	6.8170e-11	6.8172e-11	6.8172e-11
980	6.8168e-11	6.8171e-11	6.8171e-11
981	6.8167e-11	6.8170e-11	6.8170e-11
982	6.8166e-11	6.8169e-11	6.8169e-11
983	6.8165e-11	6.8168e-11	6.8168e-11
984	6.8164e-11	6.8166e-11	6.8166e-11
985	6.8163e-11	6.8165e-11	6.8165e-11
986	6.8162e-11	6.8164e-11	6.8164e-11
987	6.8160e-11	6.8163e-11	6.8163e-11
988	6.8159e-11	6.8162e-11	6.8162e-11
989	6.8158e-11	6.8161e-11	6.8161e-11
990	6.8157e-11	6.8160e-11	6.8160e-11
991	6.8156e-11	6.8158e-11	6.8158e-11
992	6.8155e-11	6.8157e-11	6.8157e-11
993	6.8153e-11	6.8156e-11	6.8156e-11
994	6.8152e-11	6.8155e-11	6.8155e-11
995	6.8151e-11	6.8154e-11	6.8154e-11
996	6.8150e-11	6.8153e-11	6.8153e-11
997	6.8149e-11	6.8151e-11	6.8151e-11
998	6.8148e-11	6.8150e-11	6.8150e-11
999	6.8146e-11	6.8149e-11	6.8149e-11
1000	6.8145e-11	6.8148e-11	6.8148e-11

Table B.7.17: Output for Problem 7.3.2-DIST-C

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	9.9999e-11	9.9993e-11	9.9993e-11
2	9.9999e-11	9.9998e-11	9.9998e-11
3	9.9999e-11	9.9997e-11	9.9997e-11
4	9.9999e-11	9.9996e-11	9.9996e-11
5	9.9999e-11	9.9995e-11	9.9995e-11
6	9.9999e-11	9.9995e-11	9.9995e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
7	9.9999e-11	9.9994e-11	9.9994e-11
8	9.9999e-11	9.9993e-11	9.9993e-11
9	9.9999e-11	9.9993e-11	9.9993e-11
10	9.9999e-11	9.9992e-11	9.9992e-11
11	9.9999e-11	9.9991e-11	9.9991e-11
12	9.9999e-11	9.9991e-11	9.9991e-11
13	9.9999e-11	9.9990e-11	9.9990e-11
14	9.9999e-11	9.9989e-11	9.9989e-11
15	9.9999e-11	9.9989e-11	9.9989e-11
16	9.9999e-11	9.9988e-11	9.9988e-11
17	9.9999e-11	9.9987e-11	9.9987e-11
18	9.9999e-11	9.9986e-11	9.9986e-11
19	9.9999e-11	9.9986e-11	9.9986e-11
20	9.9999e-11	9.9985e-11	9.9985e-11
21	9.9999e-11	9.9984e-11	9.9984e-11
22	9.9999e-11	9.9984e-11	9.9984e-11
23	9.9999e-11	9.9983e-11	9.9983e-11
24	9.9999e-11	9.9982e-11	9.9982e-11
25	9.9999e-11	9.9982e-11	9.9982e-11
26	9.9999e-11	9.9981e-11	9.9981e-11
27	9.9999e-11	9.9980e-11	9.9980e-11
28	9.9999e-11	9.9979e-11	9.9979e-11
29	9.9999e-11	9.9979e-11	9.9979e-11
30	9.9999e-11	9.9978e-11	9.9978e-11
31	9.9999e-11	9.9977e-11	9.9977e-11
32	9.9999e-11	9.9977e-11	9.9977e-11
33	9.9999e-11	9.9976e-11	9.9976e-11
34	9.9999e-11	9.9975e-11	9.9975e-11
35	9.9999e-11	9.9975e-11	9.9975e-11
36	9.9999e-11	9.9974e-11	9.9974e-11
37	9.9999e-11	9.9973e-11	9.9973e-11
38	9.9999e-11	9.9973e-11	9.9973e-11
39	9.9999e-11	9.9972e-11	9.9972e-11
40	9.9999e-11	9.9971e-11	9.9971e-11
41	9.9999e-11	9.9970e-11	9.9970e-11
42	9.9999e-11	9.9970e-11	9.9970e-11
43	9.9999e-11	9.9969e-11	9.9969e-11
44	9.9999e-11	9.9968e-11	9.9968e-11
45	9.9999e-11	9.9968e-11	9.9968e-11
46	9.9999e-11	9.9967e-11	9.9967e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
47	9.9999e-11	9.9966e-11	9.9966e-11
48	9.9999e-11	9.9966e-11	9.9966e-11
49	9.9999e-11	9.9965e-11	9.9965e-11
50	9.9999e-11	9.9964e-11	9.9964e-11
51	9.9999e-11	9.9964e-11	9.9964e-11
52	9.9999e-11	9.9963e-11	9.9963e-11
53	9.9999e-11	9.9962e-11	9.9962e-11
54	9.9999e-11	9.9961e-11	9.9961e-11
55	9.9999e-11	9.9961e-11	9.9961e-11
56	9.9999e-11	9.9960e-11	9.9960e-11
57	9.9999e-11	9.9959e-11	9.9959e-11
58	9.9999e-11	9.9959e-11	9.9959e-11
59	9.9999e-11	9.9958e-11	9.9958e-11
60	9.9999e-11	9.9957e-11	9.9957e-11
61	9.9999e-11	9.9957e-11	9.9957e-11
62	9.9999e-11	9.9956e-11	9.9956e-11
63	9.9999e-11	9.9955e-11	9.9955e-11
64	9.9999e-11	9.9954e-11	9.9954e-11
65	9.9999e-11	9.9954e-11	9.9954e-11
66	9.9999e-11	9.9953e-11	9.9953e-11
67	9.9999e-11	9.9952e-11	9.9952e-11
68	9.9999e-11	9.9952e-11	9.9952e-11
69	9.9999e-11	9.9951e-11	9.9951e-11
70	9.9999e-11	9.9950e-11	9.9950e-11
71	9.9999e-11	9.9950e-11	9.9950e-11
72	9.9999e-11	9.9949e-11	9.9949e-11
73	9.9999e-11	9.9948e-11	9.9948e-11
74	9.9999e-11	9.9948e-11	9.9948e-11
75	9.9999e-11	9.9947e-11	9.9947e-11
76	9.9999e-11	9.9946e-11	9.9946e-11
77	9.9999e-11	9.9945e-11	9.9945e-11
78	9.9999e-11	9.9945e-11	9.9945e-11
79	9.9999e-11	9.9944e-11	9.9944e-11
80	9.9999e-11	9.9943e-11	9.9943e-11
81	9.9999e-11	9.9943e-11	9.9943e-11
82	9.9999e-11	9.9942e-11	9.9942e-11
83	9.9999e-11	9.9941e-11	9.9941e-11
84	9.9999e-11	9.9941e-11	9.9941e-11
85	9.9999e-11	9.9940e-11	9.9940e-11
86	9.9999e-11	9.9939e-11	9.9939e-11

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x	$A(x)$	P_{v1}	P_{v2}
87	9.9999e-11	9.9938e-11	9.9938e-11
88	9.9999e-11	9.9938e-11	9.9938e-11
89	9.9999e-11	9.9937e-11	9.9937e-11
90	9.9999e-11	9.9936e-11	9.9936e-11
91	9.9999e-11	9.9936e-11	9.9936e-11
92	9.9999e-11	9.9935e-11	9.9935e-11
93	9.9999e-11	9.9934e-11	9.9934e-11
94	9.9999e-11	9.9934e-11	9.9934e-11
95	9.9999e-11	9.9933e-11	9.9933e-11
96	9.9999e-11	9.9932e-11	9.9932e-11
97	9.9999e-11	9.9932e-11	9.9932e-11
98	9.9999e-11	9.9931e-11	9.9931e-11
99	9.9999e-11	9.9930e-11	9.9930e-11
100	9.9999e-11	9.9929e-11	9.9929e-11
101	9.9999e-11	9.9929e-11	9.9929e-11
102	9.9999e-11	9.9928e-11	9.9928e-11
103	9.9999e-11	9.9927e-11	9.9927e-11
104	9.9999e-11	9.9927e-11	9.9927e-11
105	9.9999e-11	9.9926e-11	9.9926e-11
106	9.9999e-11	9.9925e-11	9.9925e-11
107	9.9999e-11	9.9925e-11	9.9925e-11
108	9.9999e-11	9.9924e-11	9.9924e-11
109	9.9999e-11	9.9923e-11	9.9923e-11
110	9.9999e-11	9.9922e-11	9.9922e-11
111	9.9999e-11	9.9922e-11	9.9922e-11
112	9.9999e-11	9.9921e-11	9.9921e-11
113	9.9999e-11	9.9920e-11	9.9920e-11
114	9.9999e-11	9.9920e-11	9.9920e-11
115	9.9999e-11	9.9919e-11	9.9919e-11
116	9.9999e-11	9.9918e-11	9.9918e-11
117	9.9999e-11	9.9918e-11	9.9918e-11
118	9.9999e-11	9.9917e-11	9.9917e-11
119	9.9999e-11	9.9916e-11	9.9916e-11
120	9.9999e-11	9.9915e-11	9.9915e-11
121	9.9999e-11	9.9915e-11	9.9915e-11
122	9.9999e-11	9.9914e-11	9.9914e-11
123	9.9999e-11	9.9913e-11	9.9913e-11
124	9.9999e-11	9.9913e-11	9.9913e-11
125	9.9999e-11	9.9912e-11	9.9912e-11
126	9.9999e-11	9.9911e-11	9.9911e-11

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x	$A(x)$	P_{v1}	P_{v2}
127	9.9999e-11	9.9911e-11	9.9911e-11
128	9.9999e-11	9.9910e-11	9.9910e-11
129	9.9999e-11	9.9909e-11	9.9909e-11
130	9.9999e-11	9.9909e-11	9.9909e-11
131	9.9999e-11	9.9908e-11	9.9908e-11
132	9.9999e-11	9.9907e-11	9.9907e-11
133	9.9999e-11	9.9906e-11	9.9906e-11
134	9.9999e-11	9.9906e-11	9.9906e-11
135	9.9999e-11	9.9905e-11	9.9905e-11
136	9.9999e-11	9.9904e-11	9.9904e-11
137	9.9999e-11	9.9904e-11	9.9904e-11
138	9.9999e-11	9.9903e-11	9.9903e-11
139	9.9999e-11	9.9902e-11	9.9902e-11
140	9.9999e-11	9.9902e-11	9.9902e-11
141	9.9999e-11	9.9901e-11	9.9901e-11
142	9.9999e-11	9.9900e-11	9.9900e-11
143	9.9999e-11	9.9899e-11	9.9899e-11
144	9.9999e-11	9.9899e-11	9.9899e-11
145	9.9999e-11	9.9898e-11	9.9898e-11
146	9.9999e-11	9.9897e-11	9.9897e-11
147	9.9999e-11	9.9897e-11	9.9897e-11
148	9.9999e-11	9.9896e-11	9.9896e-11
149	9.9999e-11	9.9895e-11	9.9895e-11
150	9.9999e-11	9.9895e-11	9.9895e-11
151	9.9999e-11	9.9894e-11	9.9894e-11
152	9.9999e-11	9.9893e-11	9.9893e-11
153	9.9999e-11	9.9892e-11	9.9892e-11
154	9.9999e-11	9.9892e-11	9.9892e-11
155	9.9999e-11	9.9891e-11	9.9891e-11
156	9.9999e-11	9.9890e-11	9.9890e-11
157	9.9999e-11	9.9890e-11	9.9890e-11
158	9.9999e-11	9.9889e-11	9.9889e-11
159	9.9999e-11	9.9888e-11	9.9888e-11
160	9.9999e-11	9.9888e-11	9.9888e-11
161	9.9999e-11	9.9887e-11	9.9887e-11
162	9.9999e-11	9.9886e-11	9.9886e-11
163	9.9999e-11	9.9885e-11	9.9885e-11
164	9.9999e-11	9.9885e-11	9.9885e-11
165	9.9999e-11	9.9884e-11	9.9884e-11
166	9.9999e-11	9.9883e-11	9.9883e-11

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x	$A(x)$	P_{v1}	P_{v2}
167	9.9999e-11	9.9883e-11	9.9883e-11
168	9.9999e-11	9.9882e-11	9.9882e-11
169	9.9999e-11	9.9881e-11	9.9881e-11
170	9.9999e-11	9.9881e-11	9.9881e-11
171	9.9999e-11	9.9880e-11	9.9880e-11
172	9.9999e-11	9.9879e-11	9.9879e-11
173	9.9999e-11	9.9878e-11	9.9878e-11
174	9.9999e-11	9.9878e-11	9.9878e-11
175	9.9999e-11	9.9877e-11	9.9877e-11
176	9.9999e-11	9.9876e-11	9.9876e-11
177	9.9999e-11	9.9876e-11	9.9876e-11
178	9.9999e-11	9.9875e-11	9.9875e-11
179	9.9999e-11	9.9874e-11	9.9874e-11
180	9.9999e-11	9.9874e-11	9.9874e-11
181	9.9999e-11	9.9873e-11	9.9873e-11
182	9.9999e-11	9.9872e-11	9.9872e-11
183	9.9999e-11	9.9871e-11	9.9871e-11
184	9.9999e-11	9.9871e-11	9.9871e-11
185	9.9999e-11	9.9870e-11	9.9870e-11
186	9.9999e-11	9.9869e-11	9.9869e-11
187	9.9999e-11	9.9869e-11	9.9869e-11
188	9.9999e-11	9.9868e-11	9.9868e-11
189	9.9999e-11	9.9867e-11	9.9867e-11
190	9.9999e-11	9.9867e-11	9.9867e-11
191	9.9999e-11	9.9866e-11	9.9866e-11
192	9.9999e-11	9.9865e-11	9.9865e-11
193	9.9999e-11	9.9864e-11	9.9864e-11
194	9.9999e-11	9.9864e-11	9.9864e-11
195	9.9999e-11	9.9863e-11	9.9863e-11
196	9.9999e-11	9.9862e-11	9.9862e-11
197	9.9999e-11	9.9862e-11	9.9862e-11
198	9.9999e-11	9.9861e-11	9.9861e-11
199	9.9999e-11	9.9860e-11	9.9860e-11
200	9.9999e-11	9.9860e-11	9.9860e-11
201	9.9999e-11	9.9859e-11	9.9859e-11
202	9.9999e-11	9.9858e-11	9.9858e-11
203	9.9999e-11	9.9857e-11	9.9857e-11
204	9.9999e-11	9.9857e-11	9.9857e-11
205	9.9999e-11	9.9856e-11	9.9856e-11
206	9.9999e-11	9.9855e-11	9.9855e-11

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x	$A(x)$	P_{v1}	P_{v2}
207	9.9999e-11	9.9855e-11	9.9855e-11
208	9.9999e-11	9.9854e-11	9.9854e-11
209	9.9999e-11	9.9853e-11	9.9853e-11
210	9.9999e-11	9.9853e-11	9.9853e-11
211	9.9999e-11	9.9852e-11	9.9852e-11
212	9.9999e-11	9.9851e-11	9.9851e-11
213	9.9999e-11	9.9850e-11	9.9850e-11
214	9.9999e-11	9.9850e-11	9.9850e-11
215	9.9999e-11	9.9849e-11	9.9849e-11
216	9.9999e-11	9.9848e-11	9.9848e-11
217	9.9999e-11	9.9848e-11	9.9848e-11
218	9.9999e-11	9.9847e-11	9.9847e-11
219	9.9999e-11	9.9846e-11	9.9846e-11
220	9.9999e-11	9.9846e-11	9.9846e-11
221	9.9999e-11	9.9845e-11	9.9845e-11
222	9.9999e-11	9.9844e-11	9.9844e-11
223	9.9999e-11	9.9843e-11	9.9843e-11
224	9.9999e-11	9.9843e-11	9.9843e-11
225	9.9999e-11	9.9842e-11	9.9842e-11
226	9.9999e-11	9.9841e-11	9.9841e-11
227	9.9999e-11	9.9841e-11	9.9841e-11
228	9.9999e-11	9.9840e-11	9.9840e-11
229	9.9999e-11	9.9839e-11	9.9839e-11
230	9.9999e-11	9.9839e-11	9.9839e-11
231	9.9999e-11	9.9838e-11	9.9838e-11
232	9.9999e-11	9.9837e-11	9.9837e-11
233	9.9999e-11	9.9836e-11	9.9836e-11
234	9.9999e-11	9.9836e-11	9.9836e-11
235	9.9999e-11	9.9835e-11	9.9835e-11
236	9.9999e-11	9.9834e-11	9.9834e-11
237	9.9999e-11	9.9834e-11	9.9834e-11
238	9.9999e-11	9.9833e-11	9.9833e-11
239	9.9999e-11	9.9832e-11	9.9832e-11
240	9.9999e-11	9.9832e-11	9.9832e-11
241	9.9999e-11	9.9831e-11	9.9831e-11
242	9.9999e-11	9.9830e-11	9.9830e-11
243	9.9999e-11	9.9829e-11	9.9829e-11
244	9.9999e-11	9.9829e-11	9.9829e-11
245	9.9999e-11	9.9828e-11	9.9828e-11
246	9.9999e-11	9.9827e-11	9.9827e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
247	9.9999e-11	9.9827e-11	9.9827e-11
248	9.9999e-11	9.9826e-11	9.9826e-11
249	9.9999e-11	9.9825e-11	9.9825e-11
250	9.9999e-11	9.9825e-11	9.9825e-11
251	9.9999e-11	9.9824e-11	9.9824e-11
252	9.9999e-11	9.9823e-11	9.9823e-11
253	9.9999e-11	9.9822e-11	9.9822e-11
254	9.9999e-11	9.9822e-11	9.9822e-11
255	9.9999e-11	9.9821e-11	9.9821e-11
256	9.9999e-11	9.9820e-11	9.9820e-11
257	9.9999e-11	9.9820e-11	9.9820e-11
258	9.9999e-11	9.9819e-11	9.9819e-11
259	9.9999e-11	9.9818e-11	9.9818e-11
260	9.9999e-11	9.9818e-11	9.9818e-11
261	9.9999e-11	9.9817e-11	9.9817e-11
262	9.9999e-11	9.9816e-11	9.9816e-11
263	9.9999e-11	9.9815e-11	9.9815e-11
264	9.9999e-11	9.9815e-11	9.9815e-11
265	9.9999e-11	9.9814e-11	9.9814e-11
266	9.9999e-11	9.9813e-11	9.9813e-11
267	9.9999e-11	9.9813e-11	9.9813e-11
268	9.9999e-11	9.9812e-11	9.9812e-11
269	9.9999e-11	9.9811e-11	9.9811e-11
270	9.9999e-11	9.9810e-11	9.9810e-11
271	9.9999e-11	9.9810e-11	9.9810e-11
272	9.9999e-11	9.9809e-11	9.9809e-11
273	9.9999e-11	9.9808e-11	9.9808e-11
274	9.9999e-11	9.9808e-11	9.9808e-11
275	9.9999e-11	9.9807e-11	9.9807e-11
276	9.9999e-11	9.9806e-11	9.9806e-11
277	9.9999e-11	9.9806e-11	9.9806e-11
278	9.9999e-11	9.9805e-11	9.9805e-11
279	9.9999e-11	9.9804e-11	9.9804e-11
280	9.9999e-11	9.9803e-11	9.9803e-11
281	9.9999e-11	9.9803e-11	9.9803e-11
282	9.9999e-11	9.9802e-11	9.9802e-11
283	9.9999e-11	9.9801e-11	9.9801e-11
284	9.9999e-11	9.9801e-11	9.9801e-11
285	9.9999e-11	9.9800e-11	9.9800e-11
286	9.9999e-11	9.9799e-11	9.9799e-11

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x	$A(x)$	P_{v1}	P_{v2}
287	9.9999e-11	9.9799e-11	9.9799e-11
288	9.9999e-11	9.9798e-11	9.9798e-11
289	9.9999e-11	9.9797e-11	9.9797e-11
290	9.9999e-11	9.9796e-11	9.9796e-11
291	9.9999e-11	9.9796e-11	9.9796e-11
292	9.9999e-11	9.9795e-11	9.9795e-11
293	9.9999e-11	9.9794e-11	9.9794e-11
294	9.9999e-11	9.9794e-11	9.9794e-11
295	9.9999e-11	9.9793e-11	9.9793e-11
296	9.9999e-11	9.9792e-11	9.9792e-11
297	9.9999e-11	9.9792e-11	9.9792e-11
298	9.9999e-11	9.9791e-11	9.9791e-11
299	9.9999e-11	9.9790e-11	9.9790e-11
300	9.9999e-11	9.9789e-11	9.9789e-11
301	9.9999e-11	9.9789e-11	9.9789e-11
302	9.9999e-11	9.9788e-11	9.9788e-11
303	9.9999e-11	9.9787e-11	9.9787e-11
304	9.9999e-11	9.9787e-11	9.9787e-11
305	9.9999e-11	9.9786e-11	9.9786e-11
306	9.9999e-11	9.9785e-11	9.9785e-11
307	9.9999e-11	9.9784e-11	9.9784e-11
308	9.9999e-11	9.9784e-11	9.9784e-11
309	9.9999e-11	9.9783e-11	9.9783e-11
310	9.9999e-11	9.9782e-11	9.9782e-11
311	9.9999e-11	9.9782e-11	9.9782e-11
312	9.9999e-11	9.9781e-11	9.9781e-11
313	9.9999e-11	9.9780e-11	9.9780e-11
314	9.9999e-11	9.9780e-11	9.9780e-11
315	9.9999e-11	9.9779e-11	9.9779e-11
316	9.9999e-11	9.9778e-11	9.9778e-11
317	9.9999e-11	9.9777e-11	9.9777e-11
318	9.9999e-11	9.9777e-11	9.9777e-11
319	9.9999e-11	9.9776e-11	9.9776e-11
320	9.9999e-11	9.9775e-11	9.9775e-11
321	9.9999e-11	9.9775e-11	9.9775e-11
322	9.9999e-11	9.9774e-11	9.9774e-11
323	9.9999e-11	9.9773e-11	9.9773e-11
324	9.9999e-11	9.9772e-11	9.9772e-11
325	9.9999e-11	9.9772e-11	9.9772e-11
326	9.9999e-11	9.9771e-11	9.9771e-11

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x	$A(x)$	P_{v1}	P_{v2}
327	9.9999e-11	9.9770e-11	9.9770e-11
328	9.9999e-11	9.9770e-11	9.9770e-11
329	9.9999e-11	9.9769e-11	9.9769e-11
330	9.9999e-11	9.9768e-11	9.9768e-11
331	9.9999e-11	9.9768e-11	9.9768e-11
332	9.9999e-11	9.9767e-11	9.9767e-11
333	9.9999e-11	9.9766e-11	9.9766e-11
334	9.9999e-11	9.9765e-11	9.9765e-11
335	9.9999e-11	9.9765e-11	9.9765e-11
336	9.9999e-11	9.9764e-11	9.9764e-11
337	9.9999e-11	9.9763e-11	9.9763e-11
338	9.9999e-11	9.9763e-11	9.9763e-11
339	9.9999e-11	9.9762e-11	9.9762e-11
340	9.9999e-11	9.9761e-11	9.9761e-11
341	9.9999e-11	9.9761e-11	9.9761e-11
342	9.9999e-11	9.9760e-11	9.9760e-11
343	9.9999e-11	9.9759e-11	9.9759e-11
344	9.9999e-11	9.9758e-11	9.9758e-11
345	9.9999e-11	9.9758e-11	9.9758e-11
346	9.9999e-11	9.9757e-11	9.9757e-11
347	9.9999e-11	9.9756e-11	9.9756e-11
348	9.9999e-11	9.9756e-11	9.9756e-11
349	9.9999e-11	9.9755e-11	9.9755e-11
350	9.9999e-11	9.9754e-11	9.9754e-11
351	9.9999e-11	9.9753e-11	9.9753e-11
352	9.9999e-11	9.9753e-11	9.9753e-11
353	9.9999e-11	9.9752e-11	9.9752e-11
354	9.9999e-11	9.9751e-11	9.9751e-11
355	9.9999e-11	9.9751e-11	9.9751e-11
356	9.9999e-11	9.9750e-11	9.9750e-11
357	9.9999e-11	9.9749e-11	9.9749e-11
358	9.9999e-11	9.9749e-11	9.9749e-11
359	9.9999e-11	9.9748e-11	9.9748e-11
360	9.9999e-11	9.9747e-11	9.9747e-11
361	9.9999e-11	9.9746e-11	9.9746e-11
362	9.9999e-11	9.9746e-11	9.9746e-11
363	9.9999e-11	9.9745e-11	9.9745e-11
364	9.9999e-11	9.9744e-11	9.9744e-11
365	9.9999e-11	9.9744e-11	9.9744e-11
366	9.9999e-11	9.9743e-11	9.9743e-11

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x	$A(x)$	P_{v1}	P_{v2}
367	9.9999e-11	9.9742e-11	9.9742e-11
368	9.9999e-11	9.9741e-11	9.9741e-11
369	9.9999e-11	9.9741e-11	9.9741e-11
370	9.9999e-11	9.9740e-11	9.9740e-11
371	9.9999e-11	9.9739e-11	9.9739e-11
372	9.9999e-11	9.9739e-11	9.9739e-11
373	9.9999e-11	9.9738e-11	9.9738e-11
374	9.9999e-11	9.9737e-11	9.9737e-11
375	9.9999e-11	9.9737e-11	9.9737e-11
376	9.9999e-11	9.9736e-11	9.9736e-11
377	9.9999e-11	9.9735e-11	9.9735e-11
378	9.9999e-11	9.9734e-11	9.9734e-11
379	9.9999e-11	9.9734e-11	9.9734e-11
380	9.9999e-11	9.9733e-11	9.9733e-11
381	9.9999e-11	9.9732e-11	9.9732e-11
382	9.9999e-11	9.9732e-11	9.9732e-11
383	9.9999e-11	9.9731e-11	9.9731e-11
384	9.9999e-11	9.9730e-11	9.9730e-11
385	9.9999e-11	9.9729e-11	9.9729e-11
386	9.9999e-11	9.9729e-11	9.9729e-11
387	9.9999e-11	9.9728e-11	9.9728e-11
388	9.9999e-11	9.9727e-11	9.9727e-11
389	9.9999e-11	9.9727e-11	9.9727e-11
390	9.9999e-11	9.9726e-11	9.9726e-11
391	9.9999e-11	9.9725e-11	9.9725e-11
392	9.9999e-11	9.9725e-11	9.9725e-11
393	9.9999e-11	9.9724e-11	9.9724e-11
394	9.9999e-11	9.9723e-11	9.9723e-11
395	9.9999e-11	9.9722e-11	9.9722e-11
396	9.9999e-11	9.9722e-11	9.9722e-11
397	9.9999e-11	9.9721e-11	9.9721e-11
398	9.9999e-11	9.9720e-11	9.9720e-11
399	9.9999e-11	9.9720e-11	9.9720e-11
400	9.9999e-11	9.9719e-11	9.9719e-11
401	9.9999e-11	9.9718e-11	9.9718e-11
402	9.9999e-11	9.9717e-11	9.9717e-11
403	9.9999e-11	9.9717e-11	9.9717e-11
404	9.9999e-11	9.9716e-11	9.9716e-11
405	9.9999e-11	9.9715e-11	9.9715e-11
406	9.9999e-11	9.9715e-11	9.9715e-11

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x	$A(x)$	P_{v1}	P_{v2}
407	9.9999e-11	9.9714e-11	9.9714e-11
408	9.9999e-11	9.9713e-11	9.9713e-11
409	9.9999e-11	9.9712e-11	9.9712e-11
410	9.9999e-11	9.9712e-11	9.9712e-11
411	9.9999e-11	9.9711e-11	9.9711e-11
412	9.9999e-11	9.9710e-11	9.9710e-11
413	9.9999e-11	9.9710e-11	9.9710e-11
414	9.9999e-11	9.9709e-11	9.9709e-11
415	9.9999e-11	9.9708e-11	9.9708e-11
416	9.9999e-11	9.9708e-11	9.9708e-11
417	9.9999e-11	9.9707e-11	9.9707e-11
418	9.9999e-11	9.9706e-11	9.9706e-11
419	9.9999e-11	9.9705e-11	9.9705e-11
420	9.9999e-11	9.9705e-11	9.9705e-11
421	9.9999e-11	9.9704e-11	9.9704e-11
422	9.9999e-11	9.9703e-11	9.9703e-11
423	9.9999e-11	9.9703e-11	9.9703e-11
424	9.9999e-11	9.9702e-11	9.9702e-11
425	9.9999e-11	9.9701e-11	9.9701e-11
426	9.9999e-11	9.9700e-11	9.9700e-11
427	9.9999e-11	9.9700e-11	9.9700e-11
428	9.9999e-11	9.9699e-11	9.9699e-11
429	9.9999e-11	9.9698e-11	9.9698e-11
430	9.9999e-11	9.9698e-11	9.9698e-11
431	9.9999e-11	9.9697e-11	9.9697e-11
432	9.9999e-11	9.9696e-11	9.9696e-11
433	9.9999e-11	9.9696e-11	9.9696e-11
434	9.9999e-11	9.9695e-11	9.9695e-11
435	9.9999e-11	9.9694e-11	9.9694e-11
436	9.9999e-11	9.9693e-11	9.9693e-11
437	9.9999e-11	9.9693e-11	9.9693e-11
438	9.9999e-11	9.9692e-11	9.9692e-11
439	9.9999e-11	9.9691e-11	9.9691e-11
440	9.9999e-11	9.9691e-11	9.9691e-11
441	9.9999e-11	9.9690e-11	9.9690e-11
442	9.9999e-11	9.9689e-11	9.9689e-11
443	9.9999e-11	9.9688e-11	9.9688e-11
444	9.9999e-11	9.9688e-11	9.9688e-11
445	9.9999e-11	9.9687e-11	9.9687e-11
446	9.9999e-11	9.9686e-11	9.9686e-11

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x	$A(x)$	P_{v1}	P_{v2}
447	9.9999e-11	9.9686e-11	9.9686e-11
448	9.9999e-11	9.9685e-11	9.9685e-11
449	9.9999e-11	9.9684e-11	9.9684e-11
450	9.9999e-11	9.9683e-11	9.9683e-11
451	9.9999e-11	9.9683e-11	9.9683e-11
452	9.9999e-11	9.9682e-11	9.9682e-11
453	9.9999e-11	9.9681e-11	9.9681e-11
454	9.9999e-11	9.9681e-11	9.9681e-11
455	9.9999e-11	9.9680e-11	9.9680e-11
456	9.9999e-11	9.9679e-11	9.9679e-11
457	9.9999e-11	9.9679e-11	9.9679e-11
458	9.9999e-11	9.9678e-11	9.9678e-11
459	9.9999e-11	9.9677e-11	9.9677e-11
460	9.9999e-11	9.9676e-11	9.9676e-11
461	9.9999e-11	9.9676e-11	9.9676e-11
462	9.9999e-11	9.9675e-11	9.9675e-11
463	9.9999e-11	9.9674e-11	9.9674e-11
464	9.9999e-11	9.9674e-11	9.9674e-11
465	9.9999e-11	9.9673e-11	9.9673e-11
466	9.9999e-11	9.9672e-11	9.9672e-11
467	9.9999e-11	9.9671e-11	9.9671e-11
468	9.9999e-11	9.9671e-11	9.9671e-11
469	9.9999e-11	9.9670e-11	9.9670e-11
470	9.9999e-11	9.9669e-11	9.9669e-11
471	9.9999e-11	9.9669e-11	9.9669e-11
472	9.9999e-11	9.9668e-11	9.9668e-11
473	9.9999e-11	9.9667e-11	9.9667e-11
474	9.9999e-11	9.9666e-11	9.9666e-11
475	9.9999e-11	9.9666e-11	9.9666e-11
476	9.9999e-11	9.9665e-11	9.9665e-11
477	9.9999e-11	9.9664e-11	9.9664e-11
478	9.9999e-11	9.9664e-11	9.9664e-11
479	9.9999e-11	9.9663e-11	9.9663e-11
480	9.9999e-11	9.9662e-11	9.9662e-11
481	9.9999e-11	9.9661e-11	9.9661e-11
482	9.9999e-11	9.9661e-11	9.9661e-11
483	9.9999e-11	9.9660e-11	9.9660e-11
484	9.9999e-11	9.9659e-11	9.9659e-11
485	9.9999e-11	9.9659e-11	9.9659e-11
486	9.9999e-11	9.9658e-11	9.9658e-11

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x	$A(x)$	P_{v1}	P_{v2}
487	9.9999e-11	9.9657e-11	9.9657e-11
488	9.9999e-11	9.9657e-11	9.9657e-11
489	9.9999e-11	9.9656e-11	9.9656e-11
490	9.9999e-11	9.9655e-11	9.9655e-11
491	9.9999e-11	9.9654e-11	9.9654e-11
492	9.9999e-11	9.9654e-11	9.9654e-11
493	9.9999e-11	9.9653e-11	9.9653e-11
494	9.9999e-11	9.9652e-11	9.9652e-11
495	9.9999e-11	9.9652e-11	9.9652e-11
496	9.9999e-11	9.9651e-11	9.9651e-11
497	9.9999e-11	9.9650e-11	9.9650e-11
498	9.9999e-11	9.9649e-11	9.9649e-11
499	9.9999e-11	9.9649e-11	9.9649e-11
500	9.9999e-11	9.9648e-11	9.9648e-11
501	9.9999e-11	9.9647e-11	9.9647e-11
502	9.9999e-11	9.9647e-11	9.9647e-11
503	9.9999e-11	9.9646e-11	9.9646e-11
504	9.9999e-11	9.9645e-11	9.9645e-11
505	9.9999e-11	9.9644e-11	9.9644e-11
506	9.9999e-11	9.9644e-11	9.9644e-11
507	9.9999e-11	9.9643e-11	9.9643e-11
508	9.9999e-11	9.9642e-11	9.9642e-11
509	9.9999e-11	9.9642e-11	9.9642e-11
510	9.9999e-11	9.9641e-11	9.9641e-11
511	9.9999e-11	9.9640e-11	9.9640e-11
512	9.9999e-11	9.9639e-11	9.9639e-11
513	9.9999e-11	9.9639e-11	9.9639e-11
514	9.9999e-11	9.9638e-11	9.9638e-11
515	9.9999e-11	9.9637e-11	9.9637e-11
516	9.9999e-11	9.9637e-11	9.9637e-11
517	9.9999e-11	9.9636e-11	9.9636e-11
518	9.9999e-11	9.9635e-11	9.9635e-11
519	9.9999e-11	9.9634e-11	9.9634e-11
520	9.9999e-11	9.9634e-11	9.9634e-11
521	9.9999e-11	9.9633e-11	9.9633e-11
522	9.9999e-11	9.9632e-11	9.9632e-11
523	9.9999e-11	9.9632e-11	9.9632e-11
524	9.9999e-11	9.9631e-11	9.9631e-11
525	9.9999e-11	9.9630e-11	9.9630e-11
526	9.9999e-11	9.9630e-11	9.9630e-11

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x	$A(x)$	P_{v1}	P_{v2}
527	9.9999e-11	9.9629e-11	9.9629e-11
528	9.9999e-11	9.9628e-11	9.9628e-11
529	9.9999e-11	9.9627e-11	9.9627e-11
530	9.9999e-11	9.9627e-11	9.9627e-11
531	9.9999e-11	9.9626e-11	9.9626e-11
532	9.9999e-11	9.9625e-11	9.9625e-11
533	9.9999e-11	9.9625e-11	9.9625e-11
534	9.9999e-11	9.9624e-11	9.9624e-11
535	9.9999e-11	9.9623e-11	9.9623e-11
536	9.9999e-11	9.9622e-11	9.9622e-11
537	9.9999e-11	9.9622e-11	9.9622e-11
538	9.9999e-11	9.9621e-11	9.9621e-11
539	9.9999e-11	9.9620e-11	9.9620e-11
540	9.9999e-11	9.9620e-11	9.9620e-11
541	9.9999e-11	9.9619e-11	9.9619e-11
542	9.9999e-11	9.9618e-11	9.9618e-11
543	9.9999e-11	9.9617e-11	9.9617e-11
544	9.9999e-11	9.9617e-11	9.9617e-11
545	9.9999e-11	9.9616e-11	9.9616e-11
546	9.9999e-11	9.9615e-11	9.9615e-11
547	9.9999e-11	9.9615e-11	9.9615e-11
548	9.9999e-11	9.9614e-11	9.9614e-11
549	9.9999e-11	9.9613e-11	9.9613e-11
550	9.9999e-11	9.9612e-11	9.9612e-11
551	9.9999e-11	9.9612e-11	9.9612e-11
552	9.9999e-11	9.9611e-11	9.9611e-11
553	9.9999e-11	9.9610e-11	9.9610e-11
554	9.9999e-11	9.9610e-11	9.9610e-11
555	9.9999e-11	9.9609e-11	9.9609e-11
556	9.9999e-11	9.9608e-11	9.9608e-11
557	9.9999e-11	9.9607e-11	9.9607e-11
558	9.9999e-11	9.9607e-11	9.9607e-11
559	9.9999e-11	9.9606e-11	9.9606e-11
560	9.9999e-11	9.9605e-11	9.9605e-11
561	9.9999e-11	9.9605e-11	9.9605e-11
562	9.9999e-11	9.9604e-11	9.9604e-11
563	9.9999e-11	9.9603e-11	9.9603e-11
564	9.9999e-11	9.9602e-11	9.9602e-11
565	9.9999e-11	9.9602e-11	9.9602e-11
566	9.9999e-11	9.9601e-11	9.9601e-11

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x	$A(x)$	P_{v1}	P_{v2}
567	9.9999e-11	9.9600e-11	9.9600e-11
568	9.9999e-11	9.9600e-11	9.9600e-11
569	9.9999e-11	9.9599e-11	9.9599e-11
570	9.9999e-11	9.9598e-11	9.9598e-11
571	9.9999e-11	9.9597e-11	9.9597e-11
572	9.9999e-11	9.9597e-11	9.9597e-11
573	9.9999e-11	9.9596e-11	9.9596e-11
574	9.9999e-11	9.9595e-11	9.9595e-11
575	9.9999e-11	9.9595e-11	9.9595e-11
576	9.9999e-11	9.9594e-11	9.9594e-11
577	9.9999e-11	9.9593e-11	9.9593e-11
578	9.9999e-11	9.9592e-11	9.9592e-11
579	9.9999e-11	9.9592e-11	9.9592e-11
580	9.9999e-11	9.9591e-11	9.9591e-11
581	9.9999e-11	9.9590e-11	9.9590e-11
582	9.9999e-11	9.9590e-11	9.9590e-11
583	9.9999e-11	9.9589e-11	9.9589e-11
584	9.9999e-11	9.9588e-11	9.9588e-11
585	9.9999e-11	9.9587e-11	9.9587e-11
586	9.9999e-11	9.9587e-11	9.9587e-11
587	9.9999e-11	9.9586e-11	9.9586e-11
588	9.9999e-11	9.9585e-11	9.9585e-11
589	9.9999e-11	9.9585e-11	9.9585e-11
590	9.9999e-11	9.9584e-11	9.9584e-11
591	9.9999e-11	9.9583e-11	9.9583e-11
592	9.9999e-11	9.9582e-11	9.9582e-11
593	9.9999e-11	9.9582e-11	9.9582e-11
594	9.9999e-11	9.9581e-11	9.9581e-11
595	9.9999e-11	9.9580e-11	9.9580e-11
596	9.9999e-11	9.9580e-11	9.9580e-11
597	9.9999e-11	9.9579e-11	9.9579e-11
598	9.9999e-11	9.9578e-11	9.9578e-11
599	9.9999e-11	9.9577e-11	9.9577e-11
600	9.9999e-11	9.9577e-11	9.9577e-11
601	9.9999e-11	9.9576e-11	9.9576e-11
602	9.9999e-11	9.9575e-11	9.9575e-11
603	9.9999e-11	9.9575e-11	9.9575e-11
604	9.9999e-11	9.9574e-11	9.9574e-11
605	9.9999e-11	9.9573e-11	9.9573e-11
606	9.9999e-11	9.9572e-11	9.9572e-11

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x	$A(x)$	P_{v1}	P_{v2}
607	9.9999e-11	9.9572e-11	9.9572e-11
608	9.9999e-11	9.9571e-11	9.9571e-11
609	9.9999e-11	9.9570e-11	9.9570e-11
610	9.9999e-11	9.9570e-11	9.9570e-11
611	9.9999e-11	9.9569e-11	9.9569e-11
612	9.9999e-11	9.9568e-11	9.9568e-11
613	9.9999e-11	9.9567e-11	9.9567e-11
614	9.9999e-11	9.9567e-11	9.9567e-11
615	9.9999e-11	9.9566e-11	9.9566e-11
616	9.9999e-11	9.9565e-11	9.9565e-11
617	9.9999e-11	9.9565e-11	9.9565e-11
618	9.9999e-11	9.9564e-11	9.9564e-11
619	9.9999e-11	9.9563e-11	9.9563e-11
620	9.9999e-11	9.9562e-11	9.9562e-11
621	9.9999e-11	9.9562e-11	9.9562e-11
622	9.9999e-11	9.9561e-11	9.9561e-11
623	9.9999e-11	9.9560e-11	9.9560e-11
624	9.9999e-11	9.9560e-11	9.9560e-11
625	9.9999e-11	9.9559e-11	9.9559e-11
626	9.9999e-11	9.9558e-11	9.9558e-11
627	9.9999e-11	9.9557e-11	9.9557e-11
628	9.9999e-11	9.9557e-11	9.9557e-11
629	9.9999e-11	9.9556e-11	9.9556e-11
630	9.9999e-11	9.9555e-11	9.9555e-11
631	9.9999e-11	9.9555e-11	9.9555e-11
632	9.9999e-11	9.9554e-11	9.9554e-11
633	9.9999e-11	9.9553e-11	9.9553e-11
634	9.9999e-11	9.9552e-11	9.9552e-11
635	9.9999e-11	9.9552e-11	9.9552e-11
636	9.9999e-11	9.9551e-11	9.9551e-11
637	9.9999e-11	9.9550e-11	9.9550e-11
638	9.9999e-11	9.9550e-11	9.9550e-11
639	9.9999e-11	9.9549e-11	9.9549e-11
640	9.9999e-11	9.9548e-11	9.9548e-11
641	9.9999e-11	9.9547e-11	9.9547e-11
642	9.9999e-11	9.9547e-11	9.9547e-11
643	9.9999e-11	9.9546e-11	9.9546e-11
644	9.9999e-11	9.9545e-11	9.9545e-11
645	9.9999e-11	9.9545e-11	9.9545e-11
646	9.9999e-11	9.9544e-11	9.9544e-11

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x	$A(x)$	P_{v1}	P_{v2}
647	9.9999e-11	9.9543e-11	9.9543e-11
648	9.9999e-11	9.9542e-11	9.9542e-11
649	9.9999e-11	9.9542e-11	9.9542e-11
650	9.9999e-11	9.9541e-11	9.9541e-11
651	9.9999e-11	9.9540e-11	9.9540e-11
652	9.9999e-11	9.9540e-11	9.9540e-11
653	9.9999e-11	9.9539e-11	9.9539e-11
654	9.9999e-11	9.9538e-11	9.9538e-11
655	9.9999e-11	9.9537e-11	9.9537e-11
656	9.9999e-11	9.9537e-11	9.9537e-11
657	9.9999e-11	9.9536e-11	9.9536e-11
658	9.9999e-11	9.9535e-11	9.9535e-11
659	9.9999e-11	9.9535e-11	9.9535e-11
660	9.9999e-11	9.9534e-11	9.9534e-11
661	9.9999e-11	9.9533e-11	9.9533e-11
662	9.9999e-11	9.9532e-11	9.9532e-11
663	9.9999e-11	9.9532e-11	9.9532e-11
664	9.9999e-11	9.9531e-11	9.9531e-11
665	9.9999e-11	9.9530e-11	9.9530e-11
666	9.9999e-11	9.9530e-11	9.9530e-11
667	9.9999e-11	9.9529e-11	9.9529e-11
668	9.9999e-11	9.9528e-11	9.9528e-11
669	9.9999e-11	9.9527e-11	9.9527e-11
670	9.9999e-11	9.9527e-11	9.9527e-11
671	9.9999e-11	9.9526e-11	9.9526e-11
672	9.9999e-11	9.9525e-11	9.9525e-11
673	9.9999e-11	9.9525e-11	9.9525e-11
674	9.9999e-11	9.9524e-11	9.9524e-11
675	9.9999e-11	9.9523e-11	9.9523e-11
676	9.9999e-11	9.9522e-11	9.9522e-11
677	9.9999e-11	9.9522e-11	9.9522e-11
678	9.9999e-11	9.9521e-11	9.9521e-11
679	9.9999e-11	9.9520e-11	9.9520e-11
680	9.9999e-11	9.9520e-11	9.9520e-11
681	9.9999e-11	9.9519e-11	9.9519e-11
682	9.9999e-11	9.9518e-11	9.9518e-11
683	9.9999e-11	9.9517e-11	9.9517e-11
684	9.9999e-11	9.9517e-11	9.9517e-11
685	9.9999e-11	9.9516e-11	9.9516e-11
686	9.9999e-11	9.9515e-11	9.9515e-11

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x	$A(x)$	P_{v1}	P_{v2}
687	9.9999e-11	9.9515e-11	9.9515e-11
688	9.9999e-11	9.9514e-11	9.9514e-11
689	9.9999e-11	9.9513e-11	9.9513e-11
690	9.9999e-11	9.9512e-11	9.9512e-11
691	9.9999e-11	9.9512e-11	9.9512e-11
692	9.9999e-11	9.9511e-11	9.9511e-11
693	9.9999e-11	9.9510e-11	9.9510e-11
694	9.9999e-11	9.9510e-11	9.9510e-11
695	9.9999e-11	9.9509e-11	9.9509e-11
696	9.9999e-11	9.9508e-11	9.9508e-11
697	9.9999e-11	9.9507e-11	9.9507e-11
698	9.9999e-11	9.9507e-11	9.9507e-11
699	9.9999e-11	9.9506e-11	9.9506e-11
700	9.9999e-11	9.9505e-11	9.9505e-11
701	9.9999e-11	9.9505e-11	9.9505e-11
702	9.9999e-11	9.9504e-11	9.9504e-11
703	9.9999e-11	9.9503e-11	9.9503e-11
704	9.9999e-11	9.9502e-11	9.9502e-11
705	9.9999e-11	9.9502e-11	9.9502e-11
706	9.9999e-11	9.9501e-11	9.9501e-11
707	9.9999e-11	9.9500e-11	9.9500e-11
708	9.9999e-11	9.9499e-11	9.9499e-11
709	9.9999e-11	9.9499e-11	9.9499e-11
710	9.9999e-11	9.9498e-11	9.9498e-11
711	9.9999e-11	9.9497e-11	9.9497e-11
712	9.9999e-11	9.9497e-11	9.9497e-11
713	9.9999e-11	9.9496e-11	9.9496e-11
714	9.9999e-11	9.9495e-11	9.9495e-11
715	9.9999e-11	9.9494e-11	9.9494e-11
716	9.9999e-11	9.9494e-11	9.9494e-11
717	9.9999e-11	9.9493e-11	9.9493e-11
718	9.9999e-11	9.9492e-11	9.9492e-11
719	9.9999e-11	9.9492e-11	9.9492e-11
720	9.9999e-11	9.9491e-11	9.9491e-11
721	9.9999e-11	9.9490e-11	9.9490e-11
722	9.9999e-11	9.9489e-11	9.9489e-11
723	9.9999e-11	9.9489e-11	9.9489e-11
724	9.9999e-11	9.9488e-11	9.9488e-11
725	9.9999e-11	9.9487e-11	9.9487e-11
726	9.9999e-11	9.9487e-11	9.9487e-11

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x	$A(x)$	P_{v1}	P_{v2}
727	9.9999e-11	9.9486e-11	9.9486e-11
728	9.9999e-11	9.9485e-11	9.9485e-11
729	9.9999e-11	9.9484e-11	9.9484e-11
730	9.9999e-11	9.9484e-11	9.9484e-11
731	9.9999e-11	9.9483e-11	9.9483e-11
732	9.9999e-11	9.9482e-11	9.9482e-11
733	9.9999e-11	9.9482e-11	9.9482e-11
734	9.9999e-11	9.9481e-11	9.9481e-11
735	9.9999e-11	9.9480e-11	9.9480e-11
736	9.9999e-11	9.9479e-11	9.9479e-11
737	9.9999e-11	9.9479e-11	9.9479e-11
738	9.9999e-11	9.9478e-11	9.9478e-11
739	9.9999e-11	9.9477e-11	9.9477e-11
740	9.9999e-11	9.9477e-11	9.9477e-11
741	9.9999e-11	9.9476e-11	9.9476e-11
742	9.9999e-11	9.9475e-11	9.9475e-11
743	9.9999e-11	9.9474e-11	9.9474e-11
744	9.9999e-11	9.9474e-11	9.9474e-11
745	9.9999e-11	9.9473e-11	9.9473e-11
746	9.9999e-11	9.9472e-11	9.9472e-11
747	9.9999e-11	9.9471e-11	9.9471e-11
748	9.9999e-11	9.9471e-11	9.9471e-11
749	9.9999e-11	9.9470e-11	9.9470e-11
750	9.9999e-11	9.9469e-11	9.9469e-11
751	9.9999e-11	9.9469e-11	9.9469e-11
752	9.9999e-11	9.9468e-11	9.9468e-11
753	9.9999e-11	9.9467e-11	9.9467e-11
754	9.9999e-11	9.9466e-11	9.9466e-11
755	9.9999e-11	9.9466e-11	9.9466e-11
756	9.9999e-11	9.9465e-11	9.9465e-11
757	9.9999e-11	9.9464e-11	9.9464e-11
758	9.9999e-11	9.9464e-11	9.9464e-11
759	9.9999e-11	9.9463e-11	9.9463e-11
760	9.9999e-11	9.9462e-11	9.9462e-11
761	9.9999e-11	9.9461e-11	9.9461e-11
762	9.9999e-11	9.9461e-11	9.9461e-11
763	9.9999e-11	9.9460e-11	9.9460e-11
764	9.9999e-11	9.9459e-11	9.9459e-11
765	9.9999e-11	9.9459e-11	9.9459e-11
766	9.9999e-11	9.9458e-11	9.9458e-11

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x	$A(x)$	P_{v1}	P_{v2}
767	9.9999e-11	9.9457e-11	9.9457e-11
768	9.9999e-11	9.9456e-11	9.9456e-11
769	9.9999e-11	9.9456e-11	9.9456e-11
770	9.9999e-11	9.9455e-11	9.9455e-11
771	9.9999e-11	9.9454e-11	9.9454e-11
772	9.9999e-11	9.9454e-11	9.9454e-11
773	9.9999e-11	9.9453e-11	9.9453e-11
774	9.9999e-11	9.9452e-11	9.9452e-11
775	9.9999e-11	9.9451e-11	9.9451e-11
776	9.9999e-11	9.9451e-11	9.9451e-11
777	9.9999e-11	9.9450e-11	9.9450e-11
778	9.9999e-11	9.9449e-11	9.9449e-11
779	9.9999e-11	9.9448e-11	9.9448e-11
780	9.9999e-11	9.9448e-11	9.9448e-11
781	9.9999e-11	9.9447e-11	9.9447e-11
782	9.9999e-11	9.9446e-11	9.9446e-11
783	9.9999e-11	9.9446e-11	9.9446e-11
784	9.9999e-11	9.9445e-11	9.9445e-11
785	9.9999e-11	9.9444e-11	9.9444e-11
786	9.9999e-11	9.9443e-11	9.9443e-11
787	9.9999e-11	9.9443e-11	9.9443e-11
788	9.9999e-11	9.9442e-11	9.9442e-11
789	9.9999e-11	9.9441e-11	9.9441e-11
790	9.9999e-11	9.9441e-11	9.9441e-11
791	9.9999e-11	9.9440e-11	9.9440e-11
792	9.9999e-11	9.9439e-11	9.9439e-11
793	9.9999e-11	9.9438e-11	9.9438e-11
794	9.9999e-11	9.9438e-11	9.9438e-11
795	9.9999e-11	9.9437e-11	9.9437e-11
796	9.9999e-11	9.9436e-11	9.9436e-11
797	9.9999e-11	9.9436e-11	9.9436e-11
798	9.9999e-11	9.9435e-11	9.9435e-11
799	9.9999e-11	9.9434e-11	9.9434e-11
800	9.9999e-11	9.9433e-11	9.9433e-11
801	9.9999e-11	9.9433e-11	9.9433e-11
802	9.9999e-11	9.9432e-11	9.9432e-11
803	9.9999e-11	9.9431e-11	9.9431e-11
804	9.9999e-11	9.9430e-11	9.9430e-11
805	9.9999e-11	9.9430e-11	9.9430e-11
806	9.9999e-11	9.9429e-11	9.9429e-11

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x	$A(x)$	P_{v1}	P_{v2}
807	9.9999e-11	9.9428e-11	9.9428e-11
808	9.9999e-11	9.9428e-11	9.9428e-11
809	9.9999e-11	9.9427e-11	9.9427e-11
810	9.9999e-11	9.9426e-11	9.9426e-11
811	9.9999e-11	9.9425e-11	9.9425e-11
812	9.9999e-11	9.9425e-11	9.9425e-11
813	9.9999e-11	9.9424e-11	9.9424e-11
814	9.9999e-11	9.9423e-11	9.9423e-11
815	9.9999e-11	9.9423e-11	9.9423e-11
816	9.9999e-11	9.9422e-11	9.9422e-11
817	9.9999e-11	9.9421e-11	9.9421e-11
818	9.9999e-11	9.9420e-11	9.9420e-11
819	9.9999e-11	9.9420e-11	9.9420e-11
820	9.9999e-11	9.9419e-11	9.9419e-11
821	9.9999e-11	9.9418e-11	9.9418e-11
822	9.9999e-11	9.9417e-11	9.9417e-11
823	9.9999e-11	9.9417e-11	9.9417e-11
824	9.9999e-11	9.9416e-11	9.9416e-11
825	9.9999e-11	9.9415e-11	9.9415e-11
826	9.9999e-11	9.9415e-11	9.9415e-11
827	9.9999e-11	9.9414e-11	9.9414e-11
828	9.9999e-11	9.9413e-11	9.9413e-11
829	9.9999e-11	9.9412e-11	9.9412e-11
830	9.9999e-11	9.9412e-11	9.9412e-11
831	9.9999e-11	9.9411e-11	9.9411e-11
832	9.9999e-11	9.9410e-11	9.9410e-11
833	9.9999e-11	9.9410e-11	9.9410e-11
834	9.9999e-11	9.9409e-11	9.9409e-11
835	9.9999e-11	9.9408e-11	9.9408e-11
836	9.9999e-11	9.9407e-11	9.9407e-11
837	9.9999e-11	9.9407e-11	9.9407e-11
838	9.9999e-11	9.9406e-11	9.9406e-11
839	9.9999e-11	9.9405e-11	9.9405e-11
840	9.9999e-11	9.9404e-11	9.9404e-11
841	9.9999e-11	9.9404e-11	9.9404e-11
842	9.9999e-11	9.9403e-11	9.9403e-11
843	9.9999e-11	9.9402e-11	9.9402e-11
844	9.9999e-11	9.9402e-11	9.9402e-11
845	9.9999e-11	9.9401e-11	9.9401e-11
846	9.9999e-11	9.9400e-11	9.9400e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
847	9.9999e-11	9.9399e-11	9.9399e-11
848	9.9999e-11	9.9399e-11	9.9399e-11
849	9.9999e-11	9.9398e-11	9.9398e-11
850	9.9999e-11	9.9397e-11	9.9397e-11
851	9.9999e-11	9.9397e-11	9.9397e-11
852	9.9999e-11	9.9396e-11	9.9396e-11
853	9.9999e-11	9.9395e-11	9.9395e-11
854	9.9999e-11	9.9394e-11	9.9394e-11
855	9.9999e-11	9.9394e-11	9.9394e-11
856	9.9999e-11	9.9393e-11	9.9393e-11
857	9.9999e-11	9.9392e-11	9.9392e-11
858	9.9999e-11	9.9391e-11	9.9391e-11
859	9.9999e-11	9.9391e-11	9.9391e-11
860	9.9999e-11	9.9390e-11	9.9390e-11
861	9.9999e-11	9.9389e-11	9.9389e-11
862	9.9999e-11	9.9389e-11	9.9389e-11
863	9.9999e-11	9.9388e-11	9.9388e-11
864	9.9999e-11	9.9387e-11	9.9387e-11
865	9.9999e-11	9.9386e-11	9.9386e-11
866	9.9999e-11	9.9386e-11	9.9386e-11
867	9.9999e-11	9.9385e-11	9.9385e-11
868	9.9999e-11	9.9384e-11	9.9384e-11
869	9.9999e-11	9.9384e-11	9.9384e-11
870	9.9999e-11	9.9383e-11	9.9383e-11
871	9.9999e-11	9.9382e-11	9.9382e-11
872	9.9999e-11	9.9381e-11	9.9381e-11
873	9.9999e-11	9.9381e-11	9.9381e-11
874	9.9999e-11	9.9380e-11	9.9380e-11
875	9.9999e-11	9.9379e-11	9.9379e-11
876	9.9999e-11	9.9378e-11	9.9378e-11
877	9.9999e-11	9.9378e-11	9.9378e-11
878	9.9999e-11	9.9377e-11	9.9377e-11
879	9.9999e-11	9.9376e-11	9.9376e-11
880	9.9999e-11	9.9376e-11	9.9376e-11
881	9.9999e-11	9.9375e-11	9.9375e-11
882	9.9999e-11	9.9374e-11	9.9374e-11
883	9.9999e-11	9.9373e-11	9.9373e-11
884	9.9999e-11	9.9373e-11	9.9373e-11
885	9.9999e-11	9.9372e-11	9.9372e-11
886	9.9999e-11	9.9371e-11	9.9371e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
887	9.9999e-11	9.9371e-11	9.9371e-11
888	9.9999e-11	9.9370e-11	9.9370e-11
889	9.9999e-11	9.9369e-11	9.9369e-11
890	9.9999e-11	9.9368e-11	9.9368e-11
891	9.9999e-11	9.9368e-11	9.9368e-11
892	9.9999e-11	9.9367e-11	9.9367e-11
893	9.9999e-11	9.9366e-11	9.9366e-11
894	9.9999e-11	9.9365e-11	9.9365e-11
895	9.9999e-11	9.9365e-11	9.9365e-11
896	9.9999e-11	9.9364e-11	9.9364e-11
897	9.9999e-11	9.9363e-11	9.9363e-11
898	9.9999e-11	9.9363e-11	9.9363e-11
899	9.9999e-11	9.9362e-11	9.9362e-11
900	9.9999e-11	9.9361e-11	9.9361e-11
901	9.9999e-11	9.9360e-11	9.9360e-11
902	9.9999e-11	9.9360e-11	9.9360e-11
903	9.9999e-11	9.9359e-11	9.9359e-11
904	9.9999e-11	9.9358e-11	9.9358e-11
905	9.9999e-11	9.9357e-11	9.9357e-11
906	9.9999e-11	9.9357e-11	9.9357e-11
907	9.9999e-11	9.9356e-11	9.9356e-11
908	9.9999e-11	9.9355e-11	9.9355e-11
909	9.9999e-11	9.9355e-11	9.9355e-11
910	9.9999e-11	9.9354e-11	9.9354e-11
911	9.9999e-11	9.9353e-11	9.9353e-11
912	9.9999e-11	9.9352e-11	9.9352e-11
913	9.9999e-11	9.9352e-11	9.9352e-11
914	9.9999e-11	9.9351e-11	9.9351e-11
915	9.9999e-11	9.9350e-11	9.9350e-11
916	9.9999e-11	9.9350e-11	9.9350e-11
917	9.9999e-11	9.9349e-11	9.9349e-11
918	9.9999e-11	9.9348e-11	9.9348e-11
919	9.9999e-11	9.9347e-11	9.9347e-11
920	9.9999e-11	9.9347e-11	9.9347e-11
921	9.9999e-11	9.9346e-11	9.9346e-11
922	9.9999e-11	9.9345e-11	9.9345e-11
923	9.9999e-11	9.9344e-11	9.9344e-11
924	9.9999e-11	9.9344e-11	9.9344e-11
925	9.9999e-11	9.9343e-11	9.9343e-11
926	9.9999e-11	9.9342e-11	9.9342e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
927	9.9999e-11	9.9342e-11	9.9342e-11
928	9.9999e-11	9.9341e-11	9.9341e-11
929	9.9999e-11	9.9340e-11	9.9340e-11
930	9.9999e-11	9.9339e-11	9.9339e-11
931	9.9999e-11	9.9339e-11	9.9339e-11
932	9.9999e-11	9.9338e-11	9.9338e-11
933	9.9999e-11	9.9337e-11	9.9337e-11
934	9.9999e-11	9.9336e-11	9.9336e-11
935	9.9999e-11	9.9336e-11	9.9336e-11
936	9.9999e-11	9.9335e-11	9.9335e-11
937	9.9999e-11	9.9334e-11	9.9334e-11
938	9.9999e-11	9.9334e-11	9.9334e-11
939	9.9999e-11	9.9333e-11	9.9333e-11
940	9.9999e-11	9.9332e-11	9.9332e-11
941	9.9999e-11	9.9331e-11	9.9331e-11
942	9.9999e-11	9.9331e-11	9.9331e-11
943	9.9999e-11	9.9330e-11	9.9330e-11
944	9.9999e-11	9.9329e-11	9.9329e-11
945	9.9999e-11	9.9329e-11	9.9329e-11
946	9.9999e-11	9.9328e-11	9.9328e-11
947	9.9999e-11	9.9327e-11	9.9327e-11
948	9.9999e-11	9.9326e-11	9.9326e-11
949	9.9999e-11	9.9326e-11	9.9326e-11
950	9.9999e-11	9.9325e-11	9.9325e-11
951	9.9999e-11	9.9324e-11	9.9324e-11
952	9.9999e-11	9.9323e-11	9.9323e-11
953	9.9999e-11	9.9323e-11	9.9323e-11
954	9.9999e-11	9.9322e-11	9.9322e-11
955	9.9999e-11	9.9321e-11	9.9321e-11
956	9.9999e-11	9.9321e-11	9.9321e-11
957	9.9999e-11	9.9320e-11	9.9320e-11
958	9.9999e-11	9.9319e-11	9.9319e-11
959	9.9999e-11	9.9318e-11	9.9318e-11
960	9.9999e-11	9.9318e-11	9.9318e-11
961	9.9999e-11	9.9317e-11	9.9317e-11
962	9.9999e-11	9.9316e-11	9.9316e-11
963	9.9999e-11	9.9315e-11	9.9315e-11
964	9.9999e-11	9.9315e-11	9.9315e-11
965	9.9999e-11	9.9314e-11	9.9314e-11
966	9.9999e-11	9.9313e-11	9.9313e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
967	9.9999e-11	9.9313e-11	9.9313e-11
968	9.9999e-11	9.9312e-11	9.9312e-11
969	9.9999e-11	9.9311e-11	9.9311e-11
970	9.9999e-11	9.9310e-11	9.9310e-11
971	9.9999e-11	9.9310e-11	9.9310e-11
972	9.9999e-11	9.9309e-11	9.9309e-11
973	9.9999e-11	9.9308e-11	9.9308e-11
974	9.9999e-11	9.9307e-11	9.9307e-11
975	9.9999e-11	9.9307e-11	9.9307e-11
976	9.9999e-11	9.9306e-11	9.9306e-11
977	9.9999e-11	9.9305e-11	9.9305e-11
978	9.9999e-11	9.9305e-11	9.9305e-11
979	9.9999e-11	9.9304e-11	9.9304e-11
980	9.9999e-11	9.9303e-11	9.9303e-11
981	9.9999e-11	9.9302e-11	9.9302e-11
982	9.9999e-11	9.9302e-11	9.9302e-11
983	9.9999e-11	9.9301e-11	9.9301e-11
984	9.9999e-11	9.9300e-11	9.9300e-11
985	9.9999e-11	9.9299e-11	9.9299e-11
986	9.9999e-11	9.9299e-11	9.9299e-11
987	9.9999e-11	9.9298e-11	9.9298e-11
988	9.9999e-11	9.9297e-11	9.9297e-11
989	9.9999e-11	9.9297e-11	9.9297e-11
990	9.9999e-11	9.9296e-11	9.9296e-11
991	9.9999e-11	9.9295e-11	9.9295e-11
992	9.9999e-11	9.9294e-11	9.9294e-11
993	9.9999e-11	9.9294e-11	9.9294e-11
994	9.9999e-11	9.9293e-11	9.9293e-11
995	9.9999e-11	9.9292e-11	9.9292e-11
996	9.9999e-11	9.9291e-11	9.9291e-11
997	9.9999e-11	9.9291e-11	9.9291e-11
998	9.9999e-11	9.9290e-11	9.9290e-11
999	9.9999e-11	9.9289e-11	9.9289e-11
1000	9.9999e-11	9.9289e-11	9.9289e-11

Table B.7.18: Output for Problem 7.3.3-DIST-C2

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
1	6.9314e-11	6.9304e-11	6.9304e-11
2	6.9312e-11	6.9313e-11	6.9313e-11
3	6.9311e-11	6.9312e-11	6.9312e-11
4	6.9310e-11	6.9310e-11	6.9310e-11
5	6.9309e-11	6.9309e-11	6.9309e-11
6	6.9308e-11	6.9308e-11	6.9308e-11
7	6.9307e-11	6.9307e-11	6.9307e-11
8	6.9305e-11	6.9306e-11	6.9306e-11
9	6.9304e-11	6.9304e-11	6.9304e-11
10	6.9303e-11	6.9303e-11	6.9303e-11
11	6.9302e-11	6.9302e-11	6.9302e-11
12	6.9301e-11	6.9301e-11	6.9301e-11
13	6.9299e-11	6.9300e-11	6.9300e-11
14	6.9298e-11	6.9299e-11	6.9299e-11
15	6.9297e-11	6.9297e-11	6.9297e-11
16	6.9296e-11	6.9296e-11	6.9296e-11
17	6.9295e-11	6.9295e-11	6.9295e-11
18	6.9294e-11	6.9294e-11	6.9294e-11
19	6.9292e-11	6.9293e-11	6.9293e-11
20	6.9291e-11	6.9292e-11	6.9292e-11
21	6.9290e-11	6.9290e-11	6.9290e-11
22	6.9289e-11	6.9289e-11	6.9289e-11
23	6.9288e-11	6.9288e-11	6.9288e-11
24	6.9287e-11	6.9287e-11	6.9287e-11
25	6.9285e-11	6.9286e-11	6.9286e-11
26	6.9284e-11	6.9285e-11	6.9285e-11
27	6.9283e-11	6.9283e-11	6.9283e-11
28	6.9282e-11	6.9282e-11	6.9282e-11
29	6.9281e-11	6.9281e-11	6.9281e-11
30	6.9280e-11	6.9280e-11	6.9280e-11
31	6.9278e-11	6.9279e-11	6.9279e-11
32	6.9277e-11	6.9277e-11	6.9277e-11
33	6.9276e-11	6.9276e-11	6.9276e-11
34	6.9275e-11	6.9275e-11	6.9275e-11
35	6.9274e-11	6.9274e-11	6.9274e-11
36	6.9272e-11	6.9273e-11	6.9273e-11
37	6.9271e-11	6.9272e-11	6.9272e-11
38	6.9270e-11	6.9270e-11	6.9270e-11
39	6.9269e-11	6.9269e-11	6.9269e-11
40	6.9268e-11	6.9268e-11	6.9268e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
41	6.9267e-11	6.9267e-11	6.9267e-11
42	6.9265e-11	6.9266e-11	6.9266e-11
43	6.9264e-11	6.9265e-11	6.9265e-11
44	6.9263e-11	6.9263e-11	6.9263e-11
45	6.9262e-11	6.9262e-11	6.9262e-11
46	6.9261e-11	6.9261e-11	6.9261e-11
47	6.9260e-11	6.9260e-11	6.9260e-11
48	6.9258e-11	6.9259e-11	6.9259e-11
49	6.9257e-11	6.9258e-11	6.9258e-11
50	6.9256e-11	6.9256e-11	6.9256e-11
51	6.9255e-11	6.9255e-11	6.9255e-11
52	6.9254e-11	6.9254e-11	6.9254e-11
53	6.9253e-11	6.9253e-11	6.9253e-11
54	6.9251e-11	6.9252e-11	6.9252e-11
55	6.9250e-11	6.9250e-11	6.9250e-11
56	6.9249e-11	6.9249e-11	6.9249e-11
57	6.9248e-11	6.9248e-11	6.9248e-11
58	6.9247e-11	6.9247e-11	6.9247e-11
59	6.9245e-11	6.9246e-11	6.9246e-11
60	6.9244e-11	6.9245e-11	6.9245e-11
61	6.9243e-11	6.9243e-11	6.9243e-11
62	6.9242e-11	6.9242e-11	6.9242e-11
63	6.9241e-11	6.9241e-11	6.9241e-11
64	6.9240e-11	6.9240e-11	6.9240e-11
65	6.9238e-11	6.9239e-11	6.9239e-11
66	6.9237e-11	6.9238e-11	6.9238e-11
67	6.9236e-11	6.9236e-11	6.9236e-11
68	6.9235e-11	6.9235e-11	6.9235e-11
69	6.9234e-11	6.9234e-11	6.9234e-11
70	6.9233e-11	6.9233e-11	6.9233e-11
71	6.9231e-11	6.9232e-11	6.9232e-11
72	6.9230e-11	6.9231e-11	6.9231e-11
73	6.9229e-11	6.9229e-11	6.9229e-11
74	6.9228e-11	6.9228e-11	6.9228e-11
75	6.9227e-11	6.9227e-11	6.9227e-11
76	6.9226e-11	6.9226e-11	6.9226e-11
77	6.9224e-11	6.9225e-11	6.9225e-11
78	6.9223e-11	6.9224e-11	6.9224e-11
79	6.9222e-11	6.9222e-11	6.9222e-11
80	6.9221e-11	6.9221e-11	6.9221e-11

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x	$A(x)$	P_{v1}	P_{v2}
81	6.9220e-11	6.9220e-11	6.9220e-11
82	6.9219e-11	6.9219e-11	6.9219e-11
83	6.9217e-11	6.9218e-11	6.9218e-11
84	6.9216e-11	6.9216e-11	6.9216e-11
85	6.9215e-11	6.9215e-11	6.9215e-11
86	6.9214e-11	6.9214e-11	6.9214e-11
87	6.9213e-11	6.9213e-11	6.9213e-11
88	6.9211e-11	6.9212e-11	6.9212e-11
89	6.9210e-11	6.9211e-11	6.9211e-11
90	6.9209e-11	6.9209e-11	6.9209e-11
91	6.9208e-11	6.9208e-11	6.9208e-11
92	6.9207e-11	6.9207e-11	6.9207e-11
93	6.9206e-11	6.9206e-11	6.9206e-11
94	6.9204e-11	6.9205e-11	6.9205e-11
95	6.9203e-11	6.9204e-11	6.9204e-11
96	6.9202e-11	6.9202e-11	6.9202e-11
97	6.9201e-11	6.9201e-11	6.9201e-11
98	6.9200e-11	6.9200e-11	6.9200e-11
99	6.9199e-11	6.9199e-11	6.9199e-11
100	6.9197e-11	6.9198e-11	6.9198e-11
101	6.9196e-11	6.9197e-11	6.9197e-11
102	6.9195e-11	6.9195e-11	6.9195e-11
103	6.9194e-11	6.9194e-11	6.9194e-11
104	6.9193e-11	6.9193e-11	6.9193e-11
105	6.9192e-11	6.9192e-11	6.9192e-11
106	6.9190e-11	6.9191e-11	6.9191e-11
107	6.9189e-11	6.9190e-11	6.9190e-11
108	6.9188e-11	6.9188e-11	6.9188e-11
109	6.9187e-11	6.9187e-11	6.9187e-11
110	6.9186e-11	6.9186e-11	6.9186e-11
111	6.9184e-11	6.9185e-11	6.9185e-11
112	6.9183e-11	6.9184e-11	6.9184e-11
113	6.9182e-11	6.9182e-11	6.9182e-11
114	6.9181e-11	6.9181e-11	6.9181e-11
115	6.9180e-11	6.9180e-11	6.9180e-11
116	6.9179e-11	6.9179e-11	6.9179e-11
117	6.9177e-11	6.9178e-11	6.9178e-11
118	6.9176e-11	6.9177e-11	6.9177e-11
119	6.9175e-11	6.9175e-11	6.9175e-11
120	6.9174e-11	6.9174e-11	6.9174e-11

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x	$A(x)$	P_{v1}	P_{v2}
121	6.9173e-11	6.9173e-11	6.9173e-11
122	6.9172e-11	6.9172e-11	6.9172e-11
123	6.9170e-11	6.9171e-11	6.9171e-11
124	6.9169e-11	6.9170e-11	6.9170e-11
125	6.9168e-11	6.9168e-11	6.9168e-11
126	6.9167e-11	6.9167e-11	6.9167e-11
127	6.9166e-11	6.9166e-11	6.9166e-11
128	6.9165e-11	6.9165e-11	6.9165e-11
129	6.9163e-11	6.9164e-11	6.9164e-11
130	6.9162e-11	6.9163e-11	6.9163e-11
131	6.9161e-11	6.9161e-11	6.9161e-11
132	6.9160e-11	6.9160e-11	6.9160e-11
133	6.9159e-11	6.9159e-11	6.9159e-11
134	6.9158e-11	6.9158e-11	6.9158e-11
135	6.9156e-11	6.9157e-11	6.9157e-11
136	6.9155e-11	6.9156e-11	6.9156e-11
137	6.9154e-11	6.9154e-11	6.9154e-11
138	6.9153e-11	6.9153e-11	6.9153e-11
139	6.9152e-11	6.9152e-11	6.9152e-11
140	6.9150e-11	6.9151e-11	6.9151e-11
141	6.9149e-11	6.9150e-11	6.9150e-11
142	6.9148e-11	6.9149e-11	6.9149e-11
143	6.9147e-11	6.9147e-11	6.9147e-11
144	6.9146e-11	6.9146e-11	6.9146e-11
145	6.9145e-11	6.9145e-11	6.9145e-11
146	6.9143e-11	6.9144e-11	6.9144e-11
147	6.9142e-11	6.9143e-11	6.9143e-11
148	6.9141e-11	6.9141e-11	6.9141e-11
149	6.9140e-11	6.9140e-11	6.9140e-11
150	6.9139e-11	6.9139e-11	6.9139e-11
151	6.9138e-11	6.9138e-11	6.9138e-11
152	6.9136e-11	6.9137e-11	6.9137e-11
153	6.9135e-11	6.9136e-11	6.9136e-11
154	6.9134e-11	6.9134e-11	6.9134e-11
155	6.9133e-11	6.9133e-11	6.9133e-11
156	6.9132e-11	6.9132e-11	6.9132e-11
157	6.9131e-11	6.9131e-11	6.9131e-11
158	6.9129e-11	6.9130e-11	6.9130e-11
159	6.9128e-11	6.9129e-11	6.9129e-11
160	6.9127e-11	6.9127e-11	6.9127e-11

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x	$A(x)$	P_{v1}	P_{v2}
161	6.9126e-11	6.9126e-11	6.9126e-11
162	6.9125e-11	6.9125e-11	6.9125e-11
163	6.9124e-11	6.9124e-11	6.9124e-11
164	6.9122e-11	6.9123e-11	6.9123e-11
165	6.9121e-11	6.9122e-11	6.9122e-11
166	6.9120e-11	6.9120e-11	6.9120e-11
167	6.9119e-11	6.9119e-11	6.9119e-11
168	6.9118e-11	6.9118e-11	6.9118e-11
169	6.9116e-11	6.9117e-11	6.9117e-11
170	6.9115e-11	6.9116e-11	6.9116e-11
171	6.9114e-11	6.9115e-11	6.9115e-11
172	6.9113e-11	6.9113e-11	6.9113e-11
173	6.9112e-11	6.9112e-11	6.9112e-11
174	6.9111e-11	6.9111e-11	6.9111e-11
175	6.9109e-11	6.9110e-11	6.9110e-11
176	6.9108e-11	6.9109e-11	6.9109e-11
177	6.9107e-11	6.9107e-11	6.9107e-11
178	6.9106e-11	6.9106e-11	6.9106e-11
179	6.9105e-11	6.9105e-11	6.9105e-11
180	6.9104e-11	6.9104e-11	6.9104e-11
181	6.9102e-11	6.9103e-11	6.9103e-11
182	6.9101e-11	6.9102e-11	6.9102e-11
183	6.9100e-11	6.9100e-11	6.9100e-11
184	6.9099e-11	6.9099e-11	6.9099e-11
185	6.9098e-11	6.9098e-11	6.9098e-11
186	6.9097e-11	6.9097e-11	6.9097e-11
187	6.9095e-11	6.9096e-11	6.9096e-11
188	6.9094e-11	6.9095e-11	6.9095e-11
189	6.9093e-11	6.9093e-11	6.9093e-11
190	6.9092e-11	6.9092e-11	6.9092e-11
191	6.9091e-11	6.9091e-11	6.9091e-11
192	6.9090e-11	6.9090e-11	6.9090e-11
193	6.9088e-11	6.9089e-11	6.9089e-11
194	6.9087e-11	6.9088e-11	6.9088e-11
195	6.9086e-11	6.9086e-11	6.9086e-11
196	6.9085e-11	6.9085e-11	6.9085e-11
197	6.9084e-11	6.9084e-11	6.9084e-11
198	6.9083e-11	6.9083e-11	6.9083e-11
199	6.9081e-11	6.9082e-11	6.9082e-11
200	6.9080e-11	6.9081e-11	6.9081e-11

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x	$A(x)$	P_{v1}	P_{v2}
201	6.9079e-11	6.9079e-11	6.9079e-11
202	6.9078e-11	6.9078e-11	6.9078e-11
203	6.9077e-11	6.9077e-11	6.9077e-11
204	6.9075e-11	6.9076e-11	6.9076e-11
205	6.9074e-11	6.9075e-11	6.9075e-11
206	6.9073e-11	6.9074e-11	6.9074e-11
207	6.9072e-11	6.9072e-11	6.9072e-11
208	6.9071e-11	6.9071e-11	6.9071e-11
209	6.9070e-11	6.9070e-11	6.9070e-11
210	6.9068e-11	6.9069e-11	6.9069e-11
211	6.9067e-11	6.9068e-11	6.9068e-11
212	6.9066e-11	6.9067e-11	6.9067e-11
213	6.9065e-11	6.9065e-11	6.9065e-11
214	6.9064e-11	6.9064e-11	6.9064e-11
215	6.9063e-11	6.9063e-11	6.9063e-11
216	6.9061e-11	6.9062e-11	6.9062e-11
217	6.9060e-11	6.9061e-11	6.9061e-11
218	6.9059e-11	6.9059e-11	6.9059e-11
219	6.9058e-11	6.9058e-11	6.9058e-11
220	6.9057e-11	6.9057e-11	6.9057e-11
221	6.9056e-11	6.9056e-11	6.9056e-11
222	6.9054e-11	6.9055e-11	6.9055e-11
223	6.9053e-11	6.9054e-11	6.9054e-11
224	6.9052e-11	6.9052e-11	6.9052e-11
225	6.9051e-11	6.9051e-11	6.9051e-11
226	6.9050e-11	6.9050e-11	6.9050e-11
227	6.9049e-11	6.9049e-11	6.9049e-11
228	6.9047e-11	6.9048e-11	6.9048e-11
229	6.9046e-11	6.9047e-11	6.9047e-11
230	6.9045e-11	6.9045e-11	6.9045e-11
231	6.9044e-11	6.9044e-11	6.9044e-11
232	6.9043e-11	6.9043e-11	6.9043e-11
233	6.9041e-11	6.9042e-11	6.9042e-11
234	6.9040e-11	6.9041e-11	6.9041e-11
235	6.9039e-11	6.9040e-11	6.9040e-11
236	6.9038e-11	6.9038e-11	6.9038e-11
237	6.9037e-11	6.9037e-11	6.9037e-11
238	6.9036e-11	6.9036e-11	6.9036e-11
239	6.9034e-11	6.9035e-11	6.9035e-11
240	6.9033e-11	6.9034e-11	6.9034e-11

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x	$A(x)$	P_{v1}	P_{v2}
241	6.9032e-11	6.9033e-11	6.9033e-11
242	6.9031e-11	6.9031e-11	6.9031e-11
243	6.9030e-11	6.9030e-11	6.9030e-11
244	6.9029e-11	6.9029e-11	6.9029e-11
245	6.9027e-11	6.9028e-11	6.9028e-11
246	6.9026e-11	6.9027e-11	6.9027e-11
247	6.9025e-11	6.9026e-11	6.9026e-11
248	6.9024e-11	6.9024e-11	6.9024e-11
249	6.9023e-11	6.9023e-11	6.9023e-11
250	6.9022e-11	6.9022e-11	6.9022e-11
251	6.9020e-11	6.9021e-11	6.9021e-11
252	6.9019e-11	6.9020e-11	6.9020e-11
253	6.9018e-11	6.9019e-11	6.9019e-11
254	6.9017e-11	6.9017e-11	6.9017e-11
255	6.9016e-11	6.9016e-11	6.9016e-11
256	6.9015e-11	6.9015e-11	6.9015e-11
257	6.9013e-11	6.9014e-11	6.9014e-11
258	6.9012e-11	6.9013e-11	6.9013e-11
259	6.9011e-11	6.9011e-11	6.9011e-11
260	6.9010e-11	6.9010e-11	6.9010e-11
261	6.9009e-11	6.9009e-11	6.9009e-11
262	6.9008e-11	6.9008e-11	6.9008e-11
263	6.9006e-11	6.9007e-11	6.9007e-11
264	6.9005e-11	6.9006e-11	6.9006e-11
265	6.9004e-11	6.9004e-11	6.9004e-11
266	6.9003e-11	6.9003e-11	6.9003e-11
267	6.9002e-11	6.9002e-11	6.9002e-11
268	6.9000e-11	6.9001e-11	6.9001e-11
269	6.8999e-11	6.9000e-11	6.9000e-11
270	6.8998e-11	6.8999e-11	6.8999e-11
271	6.8997e-11	6.8997e-11	6.8997e-11
272	6.8996e-11	6.8996e-11	6.8996e-11
273	6.8995e-11	6.8995e-11	6.8995e-11
274	6.8993e-11	6.8994e-11	6.8994e-11
275	6.8992e-11	6.8993e-11	6.8993e-11
276	6.8991e-11	6.8992e-11	6.8992e-11
277	6.8990e-11	6.8990e-11	6.8990e-11
278	6.8989e-11	6.8989e-11	6.8989e-11
279	6.8988e-11	6.8988e-11	6.8988e-11
280	6.8986e-11	6.8987e-11	6.8987e-11

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x	$A(x)$	P_{v1}	P_{v2}
281	6.8985e-11	6.8986e-11	6.8986e-11
282	6.8984e-11	6.8985e-11	6.8985e-11
283	6.8983e-11	6.8983e-11	6.8983e-11
284	6.8982e-11	6.8982e-11	6.8982e-11
285	6.8981e-11	6.8981e-11	6.8981e-11
286	6.8979e-11	6.8980e-11	6.8980e-11
287	6.8978e-11	6.8979e-11	6.8979e-11
288	6.8977e-11	6.8978e-11	6.8978e-11
289	6.8976e-11	6.8976e-11	6.8976e-11
290	6.8975e-11	6.8975e-11	6.8975e-11
291	6.8974e-11	6.8974e-11	6.8974e-11
292	6.8972e-11	6.8973e-11	6.8973e-11
293	6.8971e-11	6.8972e-11	6.8972e-11
294	6.8970e-11	6.8971e-11	6.8971e-11
295	6.8969e-11	6.8969e-11	6.8969e-11
296	6.8968e-11	6.8968e-11	6.8968e-11
297	6.8967e-11	6.8967e-11	6.8967e-11
298	6.8965e-11	6.8966e-11	6.8966e-11
299	6.8964e-11	6.8965e-11	6.8965e-11
300	6.8963e-11	6.8964e-11	6.8964e-11
301	6.8962e-11	6.8962e-11	6.8962e-11
302	6.8961e-11	6.8961e-11	6.8961e-11
303	6.8959e-11	6.8960e-11	6.8960e-11
304	6.8958e-11	6.8959e-11	6.8959e-11
305	6.8957e-11	6.8958e-11	6.8958e-11
306	6.8956e-11	6.8957e-11	6.8957e-11
307	6.8955e-11	6.8955e-11	6.8955e-11
308	6.8954e-11	6.8954e-11	6.8954e-11
309	6.8952e-11	6.8953e-11	6.8953e-11
310	6.8951e-11	6.8952e-11	6.8952e-11
311	6.8950e-11	6.8951e-11	6.8951e-11
312	6.8949e-11	6.8949e-11	6.8949e-11
313	6.8948e-11	6.8948e-11	6.8948e-11
314	6.8947e-11	6.8947e-11	6.8947e-11
315	6.8945e-11	6.8946e-11	6.8946e-11
316	6.8944e-11	6.8945e-11	6.8945e-11
317	6.8943e-11	6.8944e-11	6.8944e-11
318	6.8942e-11	6.8942e-11	6.8942e-11
319	6.8941e-11	6.8941e-11	6.8941e-11
320	6.8940e-11	6.8940e-11	6.8940e-11

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x	$A(x)$	P_{v1}	P_{v2}
321	6.8938e-11	6.8939e-11	6.8939e-11
322	6.8937e-11	6.8938e-11	6.8938e-11
323	6.8936e-11	6.8937e-11	6.8937e-11
324	6.8935e-11	6.8935e-11	6.8935e-11
325	6.8934e-11	6.8934e-11	6.8934e-11
326	6.8933e-11	6.8933e-11	6.8933e-11
327	6.8931e-11	6.8932e-11	6.8932e-11
328	6.8930e-11	6.8931e-11	6.8931e-11
329	6.8929e-11	6.8930e-11	6.8930e-11
330	6.8928e-11	6.8928e-11	6.8928e-11
331	6.8927e-11	6.8927e-11	6.8927e-11
332	6.8926e-11	6.8926e-11	6.8926e-11
333	6.8924e-11	6.8925e-11	6.8925e-11
334	6.8923e-11	6.8924e-11	6.8924e-11
335	6.8922e-11	6.8923e-11	6.8923e-11
336	6.8921e-11	6.8921e-11	6.8921e-11
337	6.8920e-11	6.8920e-11	6.8920e-11
338	6.8919e-11	6.8919e-11	6.8919e-11
339	6.8917e-11	6.8918e-11	6.8918e-11
340	6.8916e-11	6.8917e-11	6.8917e-11
341	6.8915e-11	6.8916e-11	6.8916e-11
342	6.8914e-11	6.8914e-11	6.8914e-11
343	6.8913e-11	6.8913e-11	6.8913e-11
344	6.8911e-11	6.8912e-11	6.8912e-11
345	6.8910e-11	6.8911e-11	6.8911e-11
346	6.8909e-11	6.8910e-11	6.8910e-11
347	6.8908e-11	6.8909e-11	6.8909e-11
348	6.8907e-11	6.8907e-11	6.8907e-11
349	6.8906e-11	6.8906e-11	6.8906e-11
350	6.8904e-11	6.8905e-11	6.8905e-11
351	6.8903e-11	6.8904e-11	6.8904e-11
352	6.8902e-11	6.8903e-11	6.8903e-11
353	6.8901e-11	6.8902e-11	6.8902e-11
354	6.8900e-11	6.8900e-11	6.8900e-11
355	6.8899e-11	6.8899e-11	6.8899e-11
356	6.8897e-11	6.8898e-11	6.8898e-11
357	6.8896e-11	6.8897e-11	6.8897e-11
358	6.8895e-11	6.8896e-11	6.8896e-11
359	6.8894e-11	6.8895e-11	6.8895e-11
360	6.8893e-11	6.8893e-11	6.8893e-11

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x	$A(x)$	P_{v1}	P_{v2}
361	6.8892e-11	6.8892e-11	6.8892e-11
362	6.8890e-11	6.8891e-11	6.8891e-11
363	6.8889e-11	6.8890e-11	6.8890e-11
364	6.8888e-11	6.8889e-11	6.8889e-11
365	6.8887e-11	6.8888e-11	6.8888e-11
366	6.8886e-11	6.8886e-11	6.8886e-11
367	6.8885e-11	6.8885e-11	6.8885e-11
368	6.8883e-11	6.8884e-11	6.8884e-11
369	6.8882e-11	6.8883e-11	6.8883e-11
370	6.8881e-11	6.8882e-11	6.8882e-11
371	6.8880e-11	6.8881e-11	6.8881e-11
372	6.8879e-11	6.8879e-11	6.8879e-11
373	6.8878e-11	6.8878e-11	6.8878e-11
374	6.8876e-11	6.8877e-11	6.8877e-11
375	6.8875e-11	6.8876e-11	6.8876e-11
376	6.8874e-11	6.8875e-11	6.8875e-11
377	6.8873e-11	6.8873e-11	6.8873e-11
378	6.8872e-11	6.8872e-11	6.8872e-11
379	6.8871e-11	6.8871e-11	6.8871e-11
380	6.8869e-11	6.8870e-11	6.8870e-11
381	6.8868e-11	6.8869e-11	6.8869e-11
382	6.8867e-11	6.8868e-11	6.8868e-11
383	6.8866e-11	6.8866e-11	6.8866e-11
384	6.8865e-11	6.8865e-11	6.8865e-11
385	6.8863e-11	6.8864e-11	6.8864e-11
386	6.8862e-11	6.8863e-11	6.8863e-11
387	6.8861e-11	6.8862e-11	6.8862e-11
388	6.8860e-11	6.8861e-11	6.8861e-11
389	6.8859e-11	6.8859e-11	6.8859e-11
390	6.8858e-11	6.8858e-11	6.8858e-11
391	6.8856e-11	6.8857e-11	6.8857e-11
392	6.8855e-11	6.8856e-11	6.8856e-11
393	6.8854e-11	6.8855e-11	6.8855e-11
394	6.8853e-11	6.8854e-11	6.8854e-11
395	6.8852e-11	6.8852e-11	6.8852e-11
396	6.8851e-11	6.8851e-11	6.8851e-11
397	6.8849e-11	6.8850e-11	6.8850e-11
398	6.8848e-11	6.8849e-11	6.8849e-11
399	6.8847e-11	6.8848e-11	6.8848e-11
400	6.8846e-11	6.8847e-11	6.8847e-11

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x	$A(x)$	P_{v1}	P_{v2}
401	6.8845e-11	6.8845e-11	6.8845e-11
402	6.8844e-11	6.8844e-11	6.8844e-11
403	6.8842e-11	6.8843e-11	6.8843e-11
404	6.8841e-11	6.8842e-11	6.8842e-11
405	6.8840e-11	6.8841e-11	6.8841e-11
406	6.8839e-11	6.8840e-11	6.8840e-11
407	6.8838e-11	6.8838e-11	6.8838e-11
408	6.8837e-11	6.8837e-11	6.8837e-11
409	6.8835e-11	6.8836e-11	6.8836e-11
410	6.8834e-11	6.8835e-11	6.8835e-11
411	6.8833e-11	6.8834e-11	6.8834e-11
412	6.8832e-11	6.8833e-11	6.8833e-11
413	6.8831e-11	6.8831e-11	6.8831e-11
414	6.8830e-11	6.8830e-11	6.8830e-11
415	6.8828e-11	6.8829e-11	6.8829e-11
416	6.8827e-11	6.8828e-11	6.8828e-11
417	6.8826e-11	6.8827e-11	6.8827e-11
418	6.8825e-11	6.8826e-11	6.8826e-11
419	6.8824e-11	6.8824e-11	6.8824e-11
420	6.8823e-11	6.8823e-11	6.8823e-11
421	6.8821e-11	6.8822e-11	6.8822e-11
422	6.8820e-11	6.8821e-11	6.8821e-11
423	6.8819e-11	6.8820e-11	6.8820e-11
424	6.8818e-11	6.8819e-11	6.8819e-11
425	6.8817e-11	6.8817e-11	6.8817e-11
426	6.8816e-11	6.8816e-11	6.8816e-11
427	6.8814e-11	6.8815e-11	6.8815e-11
428	6.8813e-11	6.8814e-11	6.8814e-11
429	6.8812e-11	6.8813e-11	6.8813e-11
430	6.8811e-11	6.8812e-11	6.8812e-11
431	6.8810e-11	6.8810e-11	6.8810e-11
432	6.8808e-11	6.8809e-11	6.8809e-11
433	6.8807e-11	6.8808e-11	6.8808e-11
434	6.8806e-11	6.8807e-11	6.8807e-11
435	6.8805e-11	6.8806e-11	6.8806e-11
436	6.8804e-11	6.8805e-11	6.8805e-11
437	6.8803e-11	6.8803e-11	6.8803e-11
438	6.8801e-11	6.8802e-11	6.8802e-11
439	6.8800e-11	6.8801e-11	6.8801e-11
440	6.8799e-11	6.8800e-11	6.8800e-11

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x	$A(x)$	P_{v1}	P_{v2}
441	6.8798e-11	6.8799e-11	6.8799e-11
442	6.8797e-11	6.8798e-11	6.8798e-11
443	6.8796e-11	6.8796e-11	6.8796e-11
444	6.8794e-11	6.8795e-11	6.8795e-11
445	6.8793e-11	6.8794e-11	6.8794e-11
446	6.8792e-11	6.8793e-11	6.8793e-11
447	6.8791e-11	6.8792e-11	6.8792e-11
448	6.8790e-11	6.8791e-11	6.8791e-11
449	6.8789e-11	6.8789e-11	6.8789e-11
450	6.8787e-11	6.8788e-11	6.8788e-11
451	6.8786e-11	6.8787e-11	6.8787e-11
452	6.8785e-11	6.8786e-11	6.8786e-11
453	6.8784e-11	6.8785e-11	6.8785e-11
454	6.8783e-11	6.8784e-11	6.8784e-11
455	6.8782e-11	6.8782e-11	6.8782e-11
456	6.8780e-11	6.8781e-11	6.8781e-11
457	6.8779e-11	6.8780e-11	6.8780e-11
458	6.8778e-11	6.8779e-11	6.8779e-11
459	6.8777e-11	6.8778e-11	6.8778e-11
460	6.8776e-11	6.8777e-11	6.8777e-11
461	6.8775e-11	6.8775e-11	6.8775e-11
462	6.8773e-11	6.8774e-11	6.8774e-11
463	6.8772e-11	6.8773e-11	6.8773e-11
464	6.8771e-11	6.8772e-11	6.8772e-11
465	6.8770e-11	6.8771e-11	6.8771e-11
466	6.8769e-11	6.8770e-11	6.8770e-11
467	6.8768e-11	6.8768e-11	6.8768e-11
468	6.8766e-11	6.8767e-11	6.8767e-11
469	6.8765e-11	6.8766e-11	6.8766e-11
470	6.8764e-11	6.8765e-11	6.8765e-11
471	6.8763e-11	6.8764e-11	6.8764e-11
472	6.8762e-11	6.8763e-11	6.8763e-11
473	6.8761e-11	6.8761e-11	6.8761e-11
474	6.8759e-11	6.8760e-11	6.8760e-11
475	6.8758e-11	6.8759e-11	6.8759e-11
476	6.8757e-11	6.8758e-11	6.8758e-11
477	6.8756e-11	6.8757e-11	6.8757e-11
478	6.8755e-11	6.8756e-11	6.8756e-11
479	6.8753e-11	6.8754e-11	6.8754e-11
480	6.8752e-11	6.8753e-11	6.8753e-11

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x	$A(x)$	P_{v1}	P_{v2}
481	6.8751e-11	6.8752e-11	6.8752e-11
482	6.8750e-11	6.8751e-11	6.8751e-11
483	6.8749e-11	6.8750e-11	6.8750e-11
484	6.8748e-11	6.8749e-11	6.8749e-11
485	6.8746e-11	6.8747e-11	6.8747e-11
486	6.8745e-11	6.8746e-11	6.8746e-11
487	6.8744e-11	6.8745e-11	6.8745e-11
488	6.8743e-11	6.8744e-11	6.8744e-11
489	6.8742e-11	6.8743e-11	6.8743e-11
490	6.8741e-11	6.8742e-11	6.8742e-11
491	6.8739e-11	6.8740e-11	6.8740e-11
492	6.8738e-11	6.8739e-11	6.8739e-11
493	6.8737e-11	6.8738e-11	6.8738e-11
494	6.8736e-11	6.8737e-11	6.8737e-11
495	6.8735e-11	6.8736e-11	6.8736e-11
496	6.8734e-11	6.8735e-11	6.8735e-11
497	6.8732e-11	6.8733e-11	6.8733e-11
498	6.8731e-11	6.8732e-11	6.8732e-11
499	6.8730e-11	6.8731e-11	6.8731e-11
500	6.8729e-11	6.8730e-11	6.8730e-11
501	6.8728e-11	6.8729e-11	6.8729e-11
502	6.8727e-11	6.8728e-11	6.8728e-11
503	6.8725e-11	6.8726e-11	6.8726e-11
504	6.8724e-11	6.8725e-11	6.8725e-11
505	6.8723e-11	6.8724e-11	6.8724e-11
506	6.8722e-11	6.8723e-11	6.8723e-11
507	6.8721e-11	6.8722e-11	6.8722e-11
508	6.8720e-11	6.8721e-11	6.8721e-11
509	6.8718e-11	6.8719e-11	6.8719e-11
510	6.8717e-11	6.8718e-11	6.8718e-11
511	6.8716e-11	6.8717e-11	6.8717e-11
512	6.8715e-11	6.8716e-11	6.8716e-11
513	6.8714e-11	6.8715e-11	6.8715e-11
514	6.8713e-11	6.8714e-11	6.8714e-11
515	6.8711e-11	6.8712e-11	6.8712e-11
516	6.8710e-11	6.8711e-11	6.8711e-11
517	6.8709e-11	6.8710e-11	6.8710e-11
518	6.8708e-11	6.8709e-11	6.8709e-11
519	6.8707e-11	6.8708e-11	6.8708e-11
520	6.8706e-11	6.8707e-11	6.8707e-11

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x	$A(x)$	P_{v1}	P_{v2}
521	6.8704e-11	6.8705e-11	6.8705e-11
522	6.8703e-11	6.8704e-11	6.8704e-11
523	6.8702e-11	6.8703e-11	6.8703e-11
524	6.8701e-11	6.8702e-11	6.8702e-11
525	6.8700e-11	6.8701e-11	6.8701e-11
526	6.8699e-11	6.8700e-11	6.8700e-11
527	6.8697e-11	6.8698e-11	6.8698e-11
528	6.8696e-11	6.8697e-11	6.8697e-11
529	6.8695e-11	6.8696e-11	6.8696e-11
530	6.8694e-11	6.8695e-11	6.8695e-11
531	6.8693e-11	6.8694e-11	6.8694e-11
532	6.8692e-11	6.8693e-11	6.8693e-11
533	6.8690e-11	6.8691e-11	6.8691e-11
534	6.8689e-11	6.8690e-11	6.8690e-11
535	6.8688e-11	6.8689e-11	6.8689e-11
536	6.8687e-11	6.8688e-11	6.8688e-11
537	6.8686e-11	6.8687e-11	6.8687e-11
538	6.8685e-11	6.8686e-11	6.8686e-11
539	6.8683e-11	6.8684e-11	6.8684e-11
540	6.8682e-11	6.8683e-11	6.8683e-11
541	6.8681e-11	6.8682e-11	6.8682e-11
542	6.8680e-11	6.8681e-11	6.8681e-11
543	6.8679e-11	6.8680e-11	6.8680e-11
544	6.8677e-11	6.8679e-11	6.8679e-11
545	6.8676e-11	6.8677e-11	6.8677e-11
546	6.8675e-11	6.8676e-11	6.8676e-11
547	6.8674e-11	6.8675e-11	6.8675e-11
548	6.8673e-11	6.8674e-11	6.8674e-11
549	6.8672e-11	6.8673e-11	6.8673e-11
550	6.8670e-11	6.8672e-11	6.8672e-11
551	6.8669e-11	6.8670e-11	6.8670e-11
552	6.8668e-11	6.8669e-11	6.8669e-11
553	6.8667e-11	6.8668e-11	6.8668e-11
554	6.8666e-11	6.8667e-11	6.8667e-11
555	6.8665e-11	6.8666e-11	6.8666e-11
556	6.8663e-11	6.8665e-11	6.8665e-11
557	6.8662e-11	6.8663e-11	6.8663e-11
558	6.8661e-11	6.8662e-11	6.8662e-11
559	6.8660e-11	6.8661e-11	6.8661e-11
560	6.8659e-11	6.8660e-11	6.8660e-11

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x	$A(x)$	P_{v1}	P_{v2}
561	6.8658e-11	6.8659e-11	6.8659e-11
562	6.8656e-11	6.8658e-11	6.8658e-11
563	6.8655e-11	6.8656e-11	6.8656e-11
564	6.8654e-11	6.8655e-11	6.8655e-11
565	6.8653e-11	6.8654e-11	6.8654e-11
566	6.8652e-11	6.8653e-11	6.8653e-11
567	6.8651e-11	6.8652e-11	6.8652e-11
568	6.8649e-11	6.8651e-11	6.8651e-11
569	6.8648e-11	6.8649e-11	6.8649e-11
570	6.8647e-11	6.8648e-11	6.8648e-11
571	6.8646e-11	6.8647e-11	6.8647e-11
572	6.8645e-11	6.8646e-11	6.8646e-11
573	6.8644e-11	6.8645e-11	6.8645e-11
574	6.8642e-11	6.8644e-11	6.8644e-11
575	6.8641e-11	6.8642e-11	6.8642e-11
576	6.8640e-11	6.8641e-11	6.8641e-11
577	6.8639e-11	6.8640e-11	6.8640e-11
578	6.8638e-11	6.8639e-11	6.8639e-11
579	6.8637e-11	6.8638e-11	6.8638e-11
580	6.8635e-11	6.8637e-11	6.8637e-11
581	6.8634e-11	6.8635e-11	6.8635e-11
582	6.8633e-11	6.8634e-11	6.8634e-11
583	6.8632e-11	6.8633e-11	6.8633e-11
584	6.8631e-11	6.8632e-11	6.8632e-11
585	6.8630e-11	6.8631e-11	6.8631e-11
586	6.8628e-11	6.8630e-11	6.8630e-11
587	6.8627e-11	6.8628e-11	6.8628e-11
588	6.8626e-11	6.8627e-11	6.8627e-11
589	6.8625e-11	6.8626e-11	6.8626e-11
590	6.8624e-11	6.8625e-11	6.8625e-11
591	6.8623e-11	6.8624e-11	6.8624e-11
592	6.8621e-11	6.8623e-11	6.8623e-11
593	6.8620e-11	6.8621e-11	6.8621e-11
594	6.8619e-11	6.8620e-11	6.8620e-11
595	6.8618e-11	6.8619e-11	6.8619e-11
596	6.8617e-11	6.8618e-11	6.8618e-11
597	6.8616e-11	6.8617e-11	6.8617e-11
598	6.8614e-11	6.8616e-11	6.8616e-11
599	6.8613e-11	6.8614e-11	6.8614e-11
600	6.8612e-11	6.8613e-11	6.8613e-11

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x	$A(x)$	P_{v1}	P_{v2}
601	6.8611e-11	6.8612e-11	6.8612e-11
602	6.8610e-11	6.8611e-11	6.8611e-11
603	6.8609e-11	6.8610e-11	6.8610e-11
604	6.8607e-11	6.8609e-11	6.8609e-11
605	6.8606e-11	6.8607e-11	6.8607e-11
606	6.8605e-11	6.8606e-11	6.8606e-11
607	6.8604e-11	6.8605e-11	6.8605e-11
608	6.8603e-11	6.8604e-11	6.8604e-11
609	6.8602e-11	6.8603e-11	6.8603e-11
610	6.8600e-11	6.8602e-11	6.8602e-11
611	6.8599e-11	6.8600e-11	6.8600e-11
612	6.8598e-11	6.8599e-11	6.8599e-11
613	6.8597e-11	6.8598e-11	6.8598e-11
614	6.8596e-11	6.8597e-11	6.8597e-11
615	6.8594e-11	6.8596e-11	6.8596e-11
616	6.8593e-11	6.8595e-11	6.8595e-11
617	6.8592e-11	6.8593e-11	6.8593e-11
618	6.8591e-11	6.8592e-11	6.8592e-11
619	6.8590e-11	6.8591e-11	6.8591e-11
620	6.8589e-11	6.8590e-11	6.8590e-11
621	6.8587e-11	6.8589e-11	6.8589e-11
622	6.8586e-11	6.8588e-11	6.8588e-11
623	6.8585e-11	6.8586e-11	6.8586e-11
624	6.8584e-11	6.8585e-11	6.8585e-11
625	6.8583e-11	6.8584e-11	6.8584e-11
626	6.8582e-11	6.8583e-11	6.8583e-11
627	6.8580e-11	6.8582e-11	6.8582e-11
628	6.8579e-11	6.8581e-11	6.8581e-11
629	6.8578e-11	6.8579e-11	6.8579e-11
630	6.8577e-11	6.8578e-11	6.8578e-11
631	6.8576e-11	6.8577e-11	6.8577e-11
632	6.8575e-11	6.8576e-11	6.8576e-11
633	6.8573e-11	6.8575e-11	6.8575e-11
634	6.8572e-11	6.8574e-11	6.8574e-11
635	6.8571e-11	6.8572e-11	6.8572e-11
636	6.8570e-11	6.8571e-11	6.8571e-11
637	6.8569e-11	6.8570e-11	6.8570e-11
638	6.8568e-11	6.8569e-11	6.8569e-11
639	6.8566e-11	6.8568e-11	6.8568e-11
640	6.8565e-11	6.8567e-11	6.8567e-11

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x	$A(x)$	P_{v1}	P_{v2}
641	6.8564e-11	6.8565e-11	6.8565e-11
642	6.8563e-11	6.8564e-11	6.8564e-11
643	6.8562e-11	6.8563e-11	6.8563e-11
644	6.8561e-11	6.8562e-11	6.8562e-11
645	6.8559e-11	6.8561e-11	6.8561e-11
646	6.8558e-11	6.8560e-11	6.8560e-11
647	6.8557e-11	6.8558e-11	6.8558e-11
648	6.8556e-11	6.8557e-11	6.8557e-11
649	6.8555e-11	6.8556e-11	6.8556e-11
650	6.8554e-11	6.8555e-11	6.8555e-11
651	6.8552e-11	6.8554e-11	6.8554e-11
652	6.8551e-11	6.8553e-11	6.8553e-11
653	6.8550e-11	6.8551e-11	6.8551e-11
654	6.8549e-11	6.8550e-11	6.8550e-11
655	6.8548e-11	6.8549e-11	6.8549e-11
656	6.8547e-11	6.8548e-11	6.8548e-11
657	6.8545e-11	6.8547e-11	6.8547e-11
658	6.8544e-11	6.8546e-11	6.8546e-11
659	6.8543e-11	6.8544e-11	6.8544e-11
660	6.8542e-11	6.8543e-11	6.8543e-11
661	6.8541e-11	6.8542e-11	6.8542e-11
662	6.8540e-11	6.8541e-11	6.8541e-11
663	6.8538e-11	6.8540e-11	6.8540e-11
664	6.8537e-11	6.8539e-11	6.8539e-11
665	6.8536e-11	6.8537e-11	6.8537e-11
666	6.8535e-11	6.8536e-11	6.8536e-11
667	6.8534e-11	6.8535e-11	6.8535e-11
668	6.8533e-11	6.8534e-11	6.8534e-11
669	6.8531e-11	6.8533e-11	6.8533e-11
670	6.8530e-11	6.8532e-11	6.8532e-11
671	6.8529e-11	6.8530e-11	6.8530e-11
672	6.8528e-11	6.8529e-11	6.8529e-11
673	6.8527e-11	6.8528e-11	6.8528e-11
674	6.8526e-11	6.8527e-11	6.8527e-11
675	6.8524e-11	6.8526e-11	6.8526e-11
676	6.8523e-11	6.8525e-11	6.8525e-11
677	6.8522e-11	6.8523e-11	6.8523e-11
678	6.8521e-11	6.8522e-11	6.8522e-11
679	6.8520e-11	6.8521e-11	6.8521e-11
680	6.8519e-11	6.8520e-11	6.8520e-11

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x	$A(x)$	P_{v1}	P_{v2}
681	6.8517e-11	6.8519e-11	6.8519e-11
682	6.8516e-11	6.8518e-11	6.8518e-11
683	6.8515e-11	6.8516e-11	6.8516e-11
684	6.8514e-11	6.8515e-11	6.8515e-11
685	6.8513e-11	6.8514e-11	6.8514e-11
686	6.8512e-11	6.8513e-11	6.8513e-11
687	6.8510e-11	6.8512e-11	6.8512e-11
688	6.8509e-11	6.8511e-11	6.8511e-11
689	6.8508e-11	6.8509e-11	6.8509e-11
690	6.8507e-11	6.8508e-11	6.8508e-11
691	6.8506e-11	6.8507e-11	6.8507e-11
692	6.8505e-11	6.8506e-11	6.8506e-11
693	6.8503e-11	6.8505e-11	6.8505e-11
694	6.8502e-11	6.8504e-11	6.8504e-11
695	6.8501e-11	6.8503e-11	6.8503e-11
696	6.8500e-11	6.8501e-11	6.8501e-11
697	6.8499e-11	6.8500e-11	6.8500e-11
698	6.8498e-11	6.8499e-11	6.8499e-11
699	6.8496e-11	6.8498e-11	6.8498e-11
700	6.8495e-11	6.8497e-11	6.8497e-11
701	6.8494e-11	6.8496e-11	6.8496e-11
702	6.8493e-11	6.8494e-11	6.8494e-11
703	6.8492e-11	6.8493e-11	6.8493e-11
704	6.8491e-11	6.8492e-11	6.8492e-11
705	6.8489e-11	6.8491e-11	6.8491e-11
706	6.8488e-11	6.8490e-11	6.8490e-11
707	6.8487e-11	6.8489e-11	6.8489e-11
708	6.8486e-11	6.8487e-11	6.8487e-11
709	6.8485e-11	6.8486e-11	6.8486e-11
710	6.8484e-11	6.8485e-11	6.8485e-11
711	6.8482e-11	6.8484e-11	6.8484e-11
712	6.8481e-11	6.8483e-11	6.8483e-11
713	6.8480e-11	6.8482e-11	6.8482e-11
714	6.8479e-11	6.8480e-11	6.8480e-11
715	6.8478e-11	6.8479e-11	6.8479e-11
716	6.8477e-11	6.8478e-11	6.8478e-11
717	6.8475e-11	6.8477e-11	6.8477e-11
718	6.8474e-11	6.8476e-11	6.8476e-11
719	6.8473e-11	6.8475e-11	6.8475e-11
720	6.8472e-11	6.8473e-11	6.8473e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
721	6.8471e-11	6.8472e-11	6.8472e-11
722	6.8470e-11	6.8471e-11	6.8471e-11
723	6.8468e-11	6.8470e-11	6.8470e-11
724	6.8467e-11	6.8469e-11	6.8469e-11
725	6.8466e-11	6.8468e-11	6.8468e-11
726	6.8465e-11	6.8466e-11	6.8466e-11
727	6.8464e-11	6.8465e-11	6.8465e-11
728	6.8462e-11	6.8464e-11	6.8464e-11
729	6.8461e-11	6.8463e-11	6.8463e-11
730	6.8460e-11	6.8462e-11	6.8462e-11
731	6.8459e-11	6.8461e-11	6.8461e-11
732	6.8458e-11	6.8459e-11	6.8459e-11
733	6.8457e-11	6.8458e-11	6.8458e-11
734	6.8455e-11	6.8457e-11	6.8457e-11
735	6.8454e-11	6.8456e-11	6.8456e-11
736	6.8453e-11	6.8455e-11	6.8455e-11
737	6.8452e-11	6.8454e-11	6.8454e-11
738	6.8451e-11	6.8452e-11	6.8452e-11
739	6.8450e-11	6.8451e-11	6.8451e-11
740	6.8448e-11	6.8450e-11	6.8450e-11
741	6.8447e-11	6.8449e-11	6.8449e-11
742	6.8446e-11	6.8448e-11	6.8448e-11
743	6.8445e-11	6.8447e-11	6.8447e-11
744	6.8444e-11	6.8445e-11	6.8445e-11
745	6.8443e-11	6.8444e-11	6.8444e-11
746	6.8441e-11	6.8443e-11	6.8443e-11
747	6.8440e-11	6.8442e-11	6.8442e-11
748	6.8439e-11	6.8441e-11	6.8441e-11
749	6.8438e-11	6.8440e-11	6.8440e-11
750	6.8437e-11	6.8438e-11	6.8438e-11
751	6.8436e-11	6.8437e-11	6.8437e-11
752	6.8434e-11	6.8436e-11	6.8436e-11
753	6.8433e-11	6.8435e-11	6.8435e-11
754	6.8432e-11	6.8434e-11	6.8434e-11
755	6.8431e-11	6.8433e-11	6.8433e-11
756	6.8430e-11	6.8431e-11	6.8431e-11
757	6.8429e-11	6.8430e-11	6.8430e-11
758	6.8427e-11	6.8429e-11	6.8429e-11
759	6.8426e-11	6.8428e-11	6.8428e-11
760	6.8425e-11	6.8427e-11	6.8427e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
761	6.8424e-11	6.8426e-11	6.8426e-11
762	6.8423e-11	6.8425e-11	6.8425e-11
763	6.8422e-11	6.8423e-11	6.8423e-11
764	6.8420e-11	6.8422e-11	6.8422e-11
765	6.8419e-11	6.8421e-11	6.8421e-11
766	6.8418e-11	6.8420e-11	6.8420e-11
767	6.8417e-11	6.8419e-11	6.8419e-11
768	6.8416e-11	6.8418e-11	6.8418e-11
769	6.8415e-11	6.8416e-11	6.8416e-11
770	6.8413e-11	6.8415e-11	6.8415e-11
771	6.8412e-11	6.8414e-11	6.8414e-11
772	6.8411e-11	6.8413e-11	6.8413e-11
773	6.8410e-11	6.8412e-11	6.8412e-11
774	6.8409e-11	6.8411e-11	6.8411e-11
775	6.8408e-11	6.8409e-11	6.8409e-11
776	6.8406e-11	6.8408e-11	6.8408e-11
777	6.8405e-11	6.8407e-11	6.8407e-11
778	6.8404e-11	6.8406e-11	6.8406e-11
779	6.8403e-11	6.8405e-11	6.8405e-11
780	6.8402e-11	6.8404e-11	6.8404e-11
781	6.8401e-11	6.8402e-11	6.8402e-11
782	6.8399e-11	6.8401e-11	6.8401e-11
783	6.8398e-11	6.8400e-11	6.8400e-11
784	6.8397e-11	6.8399e-11	6.8399e-11
785	6.8396e-11	6.8398e-11	6.8398e-11
786	6.8395e-11	6.8397e-11	6.8397e-11
787	6.8394e-11	6.8395e-11	6.8395e-11
788	6.8392e-11	6.8394e-11	6.8394e-11
789	6.8391e-11	6.8393e-11	6.8393e-11
790	6.8390e-11	6.8392e-11	6.8392e-11
791	6.8389e-11	6.8391e-11	6.8391e-11
792	6.8388e-11	6.8390e-11	6.8390e-11
793	6.8387e-11	6.8388e-11	6.8388e-11
794	6.8385e-11	6.8387e-11	6.8387e-11
795	6.8384e-11	6.8386e-11	6.8386e-11
796	6.8383e-11	6.8385e-11	6.8385e-11
797	6.8382e-11	6.8384e-11	6.8384e-11
798	6.8381e-11	6.8383e-11	6.8383e-11
799	6.8380e-11	6.8381e-11	6.8381e-11
800	6.8378e-11	6.8380e-11	6.8380e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
801	6.8377e-11	6.8379e-11	6.8379e-11
802	6.8376e-11	6.8378e-11	6.8378e-11
803	6.8375e-11	6.8377e-11	6.8377e-11
804	6.8374e-11	6.8376e-11	6.8376e-11
805	6.8373e-11	6.8374e-11	6.8374e-11
806	6.8371e-11	6.8373e-11	6.8373e-11
807	6.8370e-11	6.8372e-11	6.8372e-11
808	6.8369e-11	6.8371e-11	6.8371e-11
809	6.8368e-11	6.8370e-11	6.8370e-11
810	6.8367e-11	6.8369e-11	6.8369e-11
811	6.8366e-11	6.8368e-11	6.8368e-11
812	6.8364e-11	6.8366e-11	6.8366e-11
813	6.8363e-11	6.8365e-11	6.8365e-11
814	6.8362e-11	6.8364e-11	6.8364e-11
815	6.8361e-11	6.8363e-11	6.8363e-11
816	6.8360e-11	6.8362e-11	6.8362e-11
817	6.8359e-11	6.8361e-11	6.8361e-11
818	6.8357e-11	6.8359e-11	6.8359e-11
819	6.8356e-11	6.8358e-11	6.8358e-11
820	6.8355e-11	6.8357e-11	6.8357e-11
821	6.8354e-11	6.8356e-11	6.8356e-11
822	6.8353e-11	6.8355e-11	6.8355e-11
823	6.8352e-11	6.8354e-11	6.8354e-11
824	6.8350e-11	6.8352e-11	6.8352e-11
825	6.8349e-11	6.8351e-11	6.8351e-11
826	6.8348e-11	6.8350e-11	6.8350e-11
827	6.8347e-11	6.8349e-11	6.8349e-11
828	6.8346e-11	6.8348e-11	6.8348e-11
829	6.8345e-11	6.8347e-11	6.8347e-11
830	6.8343e-11	6.8345e-11	6.8345e-11
831	6.8342e-11	6.8344e-11	6.8344e-11
832	6.8341e-11	6.8343e-11	6.8343e-11
833	6.8340e-11	6.8342e-11	6.8342e-11
834	6.8339e-11	6.8341e-11	6.8341e-11
835	6.8338e-11	6.8340e-11	6.8340e-11
836	6.8336e-11	6.8338e-11	6.8338e-11
837	6.8335e-11	6.8337e-11	6.8337e-11
838	6.8334e-11	6.8336e-11	6.8336e-11
839	6.8333e-11	6.8335e-11	6.8335e-11
840	6.8332e-11	6.8334e-11	6.8334e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
841	6.8331e-11	6.8333e-11	6.8333e-11
842	6.8329e-11	6.8331e-11	6.8331e-11
843	6.8328e-11	6.8330e-11	6.8330e-11
844	6.8327e-11	6.8329e-11	6.8329e-11
845	6.8326e-11	6.8328e-11	6.8328e-11
846	6.8325e-11	6.8327e-11	6.8327e-11
847	6.8324e-11	6.8326e-11	6.8326e-11
848	6.8322e-11	6.8324e-11	6.8324e-11
849	6.8321e-11	6.8323e-11	6.8323e-11
850	6.8320e-11	6.8322e-11	6.8322e-11
851	6.8319e-11	6.8321e-11	6.8321e-11
852	6.8318e-11	6.8320e-11	6.8320e-11
853	6.8317e-11	6.8319e-11	6.8319e-11
854	6.8315e-11	6.8318e-11	6.8318e-11
855	6.8314e-11	6.8316e-11	6.8316e-11
856	6.8313e-11	6.8315e-11	6.8315e-11
857	6.8312e-11	6.8314e-11	6.8314e-11
858	6.8311e-11	6.8313e-11	6.8313e-11
859	6.8310e-11	6.8312e-11	6.8312e-11
860	6.8308e-11	6.8311e-11	6.8311e-11
861	6.8307e-11	6.8309e-11	6.8309e-11
862	6.8306e-11	6.8308e-11	6.8308e-11
863	6.8305e-11	6.8307e-11	6.8307e-11
864	6.8304e-11	6.8306e-11	6.8306e-11
865	6.8303e-11	6.8305e-11	6.8305e-11
866	6.8301e-11	6.8304e-11	6.8304e-11
867	6.8300e-11	6.8302e-11	6.8302e-11
868	6.8299e-11	6.8301e-11	6.8301e-11
869	6.8298e-11	6.8300e-11	6.8300e-11
870	6.8297e-11	6.8299e-11	6.8299e-11
871	6.8296e-11	6.8298e-11	6.8298e-11
872	6.8294e-11	6.8297e-11	6.8297e-11
873	6.8293e-11	6.8295e-11	6.8295e-11
874	6.8292e-11	6.8294e-11	6.8294e-11
875	6.8291e-11	6.8293e-11	6.8293e-11
876	6.8290e-11	6.8292e-11	6.8292e-11
877	6.8289e-11	6.8291e-11	6.8291e-11
878	6.8287e-11	6.8290e-11	6.8290e-11
879	6.8286e-11	6.8288e-11	6.8288e-11
880	6.8285e-11	6.8287e-11	6.8287e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
881	6.8284e-11	6.8286e-11	6.8286e-11
882	6.8283e-11	6.8285e-11	6.8285e-11
883	6.8282e-11	6.8284e-11	6.8284e-11
884	6.8280e-11	6.8283e-11	6.8283e-11
885	6.8279e-11	6.8281e-11	6.8281e-11
886	6.8278e-11	6.8280e-11	6.8280e-11
887	6.8277e-11	6.8279e-11	6.8279e-11
888	6.8276e-11	6.8278e-11	6.8278e-11
889	6.8275e-11	6.8277e-11	6.8277e-11
890	6.8273e-11	6.8276e-11	6.8276e-11
891	6.8272e-11	6.8275e-11	6.8275e-11
892	6.8271e-11	6.8273e-11	6.8273e-11
893	6.8270e-11	6.8272e-11	6.8272e-11
894	6.8269e-11	6.8271e-11	6.8271e-11
895	6.8268e-11	6.8270e-11	6.8270e-11
896	6.8266e-11	6.8269e-11	6.8269e-11
897	6.8265e-11	6.8268e-11	6.8268e-11
898	6.8264e-11	6.8266e-11	6.8266e-11
899	6.8263e-11	6.8265e-11	6.8265e-11
900	6.8262e-11	6.8264e-11	6.8264e-11
901	6.8261e-11	6.8263e-11	6.8263e-11
902	6.8259e-11	6.8262e-11	6.8262e-11
903	6.8258e-11	6.8261e-11	6.8261e-11
904	6.8257e-11	6.8259e-11	6.8259e-11
905	6.8256e-11	6.8258e-11	6.8258e-11
906	6.8255e-11	6.8257e-11	6.8257e-11
907	6.8254e-11	6.8256e-11	6.8256e-11
908	6.8252e-11	6.8255e-11	6.8255e-11
909	6.8251e-11	6.8254e-11	6.8254e-11
910	6.8250e-11	6.8252e-11	6.8252e-11
911	6.8249e-11	6.8251e-11	6.8251e-11
912	6.8248e-11	6.8250e-11	6.8250e-11
913	6.8247e-11	6.8249e-11	6.8249e-11
914	6.8245e-11	6.8248e-11	6.8248e-11
915	6.8244e-11	6.8247e-11	6.8247e-11
916	6.8243e-11	6.8245e-11	6.8245e-11
917	6.8242e-11	6.8244e-11	6.8244e-11
918	6.8241e-11	6.8243e-11	6.8243e-11
919	6.8240e-11	6.8242e-11	6.8242e-11
920	6.8238e-11	6.8241e-11	6.8241e-11

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x	$A(x)$	P_{v1}	P_{v2}
921	6.8237e-11	6.8240e-11	6.8240e-11
922	6.8236e-11	6.8238e-11	6.8238e-11
923	6.8235e-11	6.8237e-11	6.8237e-11
924	6.8234e-11	6.8236e-11	6.8236e-11
925	6.8233e-11	6.8235e-11	6.8235e-11
926	6.8231e-11	6.8234e-11	6.8234e-11
927	6.8230e-11	6.8233e-11	6.8233e-11
928	6.8229e-11	6.8232e-11	6.8232e-11
929	6.8228e-11	6.8230e-11	6.8230e-11
930	6.8227e-11	6.8229e-11	6.8229e-11
931	6.8226e-11	6.8228e-11	6.8228e-11
932	6.8224e-11	6.8227e-11	6.8227e-11
933	6.8223e-11	6.8226e-11	6.8226e-11
934	6.8222e-11	6.8225e-11	6.8225e-11
935	6.8221e-11	6.8223e-11	6.8223e-11
936	6.8220e-11	6.8222e-11	6.8222e-11
937	6.8219e-11	6.8221e-11	6.8221e-11
938	6.8217e-11	6.8220e-11	6.8220e-11
939	6.8216e-11	6.8219e-11	6.8219e-11
940	6.8215e-11	6.8218e-11	6.8218e-11
941	6.8214e-11	6.8216e-11	6.8216e-11
942	6.8213e-11	6.8215e-11	6.8215e-11
943	6.8212e-11	6.8214e-11	6.8214e-11
944	6.8210e-11	6.8213e-11	6.8213e-11
945	6.8209e-11	6.8212e-11	6.8212e-11
946	6.8208e-11	6.8211e-11	6.8211e-11
947	6.8207e-11	6.8209e-11	6.8209e-11
948	6.8206e-11	6.8208e-11	6.8208e-11
949	6.8205e-11	6.8207e-11	6.8207e-11
950	6.8203e-11	6.8206e-11	6.8206e-11
951	6.8202e-11	6.8205e-11	6.8205e-11
952	6.8201e-11	6.8204e-11	6.8204e-11
953	6.8200e-11	6.8202e-11	6.8202e-11
954	6.8199e-11	6.8201e-11	6.8201e-11
955	6.8198e-11	6.8200e-11	6.8200e-11
956	6.8196e-11	6.8199e-11	6.8199e-11
957	6.8195e-11	6.8198e-11	6.8198e-11
958	6.8194e-11	6.8197e-11	6.8197e-11
959	6.8193e-11	6.8196e-11	6.8196e-11
960	6.8192e-11	6.8194e-11	6.8194e-11

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x	$A(x)$	P_{v1}	P_{v2}
961	6.8191e-11	6.8193e-11	6.8193e-11
962	6.8189e-11	6.8192e-11	6.8192e-11
963	6.8188e-11	6.8191e-11	6.8191e-11
964	6.8187e-11	6.8190e-11	6.8190e-11
965	6.8186e-11	6.8189e-11	6.8189e-11
966	6.8185e-11	6.8187e-11	6.8187e-11
967	6.8184e-11	6.8186e-11	6.8186e-11
968	6.8182e-11	6.8185e-11	6.8185e-11
969	6.8181e-11	6.8184e-11	6.8184e-11
970	6.8180e-11	6.8183e-11	6.8183e-11
971	6.8179e-11	6.8182e-11	6.8182e-11
972	6.8178e-11	6.8180e-11	6.8180e-11
973	6.8177e-11	6.8179e-11	6.8179e-11
974	6.8175e-11	6.8178e-11	6.8178e-11
975	6.8174e-11	6.8177e-11	6.8177e-11
976	6.8173e-11	6.8176e-11	6.8176e-11
977	6.8172e-11	6.8175e-11	6.8175e-11
978	6.8171e-11	6.8173e-11	6.8173e-11
979	6.8170e-11	6.8172e-11	6.8172e-11
980	6.8168e-11	6.8171e-11	6.8171e-11
981	6.8167e-11	6.8170e-11	6.8170e-11
982	6.8166e-11	6.8169e-11	6.8169e-11
983	6.8165e-11	6.8168e-11	6.8168e-11
984	6.8164e-11	6.8166e-11	6.8166e-11
985	6.8163e-11	6.8165e-11	6.8165e-11
986	6.8162e-11	6.8164e-11	6.8164e-11
987	6.8160e-11	6.8163e-11	6.8163e-11
988	6.8159e-11	6.8162e-11	6.8162e-11
989	6.8158e-11	6.8161e-11	6.8161e-11
990	6.8157e-11	6.8160e-11	6.8160e-11
991	6.8156e-11	6.8158e-11	6.8158e-11
992	6.8155e-11	6.8157e-11	6.8157e-11
993	6.8153e-11	6.8156e-11	6.8156e-11
994	6.8152e-11	6.8155e-11	6.8155e-11
995	6.8151e-11	6.8154e-11	6.8154e-11
996	6.8150e-11	6.8153e-11	6.8153e-11
997	6.8149e-11	6.8151e-11	6.8151e-11
998	6.8148e-11	6.8150e-11	6.8150e-11
999	6.8146e-11	6.8149e-11	6.8149e-11
1000	6.8145e-11	6.8148e-11	6.8148e-11

Table B.7.19: Output for Problem 7.3.3-DIST-C

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	9.9999e-11	9.9993e-11	9.9993e-11
2	9.9999e-11	9.9998e-11	9.9998e-11
3	9.9999e-11	9.9997e-11	9.9997e-11
4	9.9999e-11	9.9996e-11	9.9996e-11
5	9.9999e-11	9.9995e-11	9.9995e-11
6	9.9999e-11	9.9995e-11	9.9995e-11
7	9.9999e-11	9.9994e-11	9.9994e-11
8	9.9999e-11	9.9993e-11	9.9993e-11
9	9.9999e-11	9.9993e-11	9.9993e-11
10	9.9999e-11	9.9992e-11	9.9992e-11
11	9.9999e-11	9.9991e-11	9.9991e-11
12	9.9999e-11	9.9991e-11	9.9991e-11
13	9.9999e-11	9.9990e-11	9.9990e-11
14	9.9999e-11	9.9989e-11	9.9989e-11
15	9.9999e-11	9.9989e-11	9.9989e-11
16	9.9999e-11	9.9988e-11	9.9988e-11
17	9.9999e-11	9.9987e-11	9.9987e-11
18	9.9999e-11	9.9986e-11	9.9986e-11
19	9.9999e-11	9.9986e-11	9.9986e-11
20	9.9999e-11	9.9985e-11	9.9985e-11
21	9.9999e-11	9.9984e-11	9.9984e-11
22	9.9999e-11	9.9984e-11	9.9984e-11
23	9.9999e-11	9.9983e-11	9.9983e-11
24	9.9999e-11	9.9982e-11	9.9982e-11
25	9.9999e-11	9.9982e-11	9.9982e-11
26	9.9999e-11	9.9981e-11	9.9981e-11
27	9.9999e-11	9.9980e-11	9.9980e-11
28	9.9999e-11	9.9979e-11	9.9979e-11
29	9.9999e-11	9.9979e-11	9.9979e-11
30	9.9999e-11	9.9978e-11	9.9978e-11
31	9.9999e-11	9.9977e-11	9.9977e-11
32	9.9999e-11	9.9977e-11	9.9977e-11
33	9.9999e-11	9.9976e-11	9.9976e-11
34	9.9999e-11	9.9975e-11	9.9975e-11
35	9.9999e-11	9.9975e-11	9.9975e-11
36	9.9999e-11	9.9974e-11	9.9974e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
37	9.9999e-11	9.9973e-11	9.9973e-11
38	9.9999e-11	9.9973e-11	9.9973e-11
39	9.9999e-11	9.9972e-11	9.9972e-11
40	9.9999e-11	9.9971e-11	9.9971e-11
41	9.9999e-11	9.9970e-11	9.9970e-11
42	9.9999e-11	9.9970e-11	9.9970e-11
43	9.9999e-11	9.9969e-11	9.9969e-11
44	9.9999e-11	9.9968e-11	9.9968e-11
45	9.9999e-11	9.9968e-11	9.9968e-11
46	9.9999e-11	9.9967e-11	9.9967e-11
47	9.9999e-11	9.9966e-11	9.9966e-11
48	9.9999e-11	9.9966e-11	9.9966e-11
49	9.9999e-11	9.9965e-11	9.9965e-11
50	9.9999e-11	9.9964e-11	9.9964e-11
51	9.9999e-11	9.9964e-11	9.9964e-11
52	9.9999e-11	9.9963e-11	9.9963e-11
53	9.9999e-11	9.9962e-11	9.9962e-11
54	9.9999e-11	9.9961e-11	9.9961e-11
55	9.9999e-11	9.9961e-11	9.9961e-11
56	9.9999e-11	9.9960e-11	9.9960e-11
57	9.9999e-11	9.9959e-11	9.9959e-11
58	9.9999e-11	9.9959e-11	9.9959e-11
59	9.9999e-11	9.9958e-11	9.9958e-11
60	9.9999e-11	9.9957e-11	9.9957e-11
61	9.9999e-11	9.9957e-11	9.9957e-11
62	9.9999e-11	9.9956e-11	9.9956e-11
63	9.9999e-11	9.9955e-11	9.9955e-11
64	9.9999e-11	9.9954e-11	9.9954e-11
65	9.9999e-11	9.9954e-11	9.9954e-11
66	9.9999e-11	9.9953e-11	9.9953e-11
67	9.9999e-11	9.9952e-11	9.9952e-11
68	9.9999e-11	9.9952e-11	9.9952e-11
69	9.9999e-11	9.9951e-11	9.9951e-11
70	9.9999e-11	9.9950e-11	9.9950e-11
71	9.9999e-11	9.9950e-11	9.9950e-11
72	9.9999e-11	9.9949e-11	9.9949e-11
73	9.9999e-11	9.9948e-11	9.9948e-11
74	9.9999e-11	9.9948e-11	9.9948e-11
75	9.9999e-11	9.9947e-11	9.9947e-11
76	9.9999e-11	9.9946e-11	9.9946e-11

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x	$A(x)$	P_{v1}	P_{v2}
77	9.9999e-11	9.9945e-11	9.9945e-11
78	9.9999e-11	9.9945e-11	9.9945e-11
79	9.9999e-11	9.9944e-11	9.9944e-11
80	9.9999e-11	9.9943e-11	9.9943e-11
81	9.9999e-11	9.9943e-11	9.9943e-11
82	9.9999e-11	9.9942e-11	9.9942e-11
83	9.9999e-11	9.9941e-11	9.9941e-11
84	9.9999e-11	9.9941e-11	9.9941e-11
85	9.9999e-11	9.9940e-11	9.9940e-11
86	9.9999e-11	9.9939e-11	9.9939e-11
87	9.9999e-11	9.9938e-11	9.9938e-11
88	9.9999e-11	9.9938e-11	9.9938e-11
89	9.9999e-11	9.9937e-11	9.9937e-11
90	9.9999e-11	9.9936e-11	9.9936e-11
91	9.9999e-11	9.9936e-11	9.9936e-11
92	9.9999e-11	9.9935e-11	9.9935e-11
93	9.9999e-11	9.9934e-11	9.9934e-11
94	9.9999e-11	9.9934e-11	9.9934e-11
95	9.9999e-11	9.9933e-11	9.9933e-11
96	9.9999e-11	9.9932e-11	9.9932e-11
97	9.9999e-11	9.9932e-11	9.9932e-11
98	9.9999e-11	9.9931e-11	9.9931e-11
99	9.9999e-11	9.9930e-11	9.9930e-11
100	9.9999e-11	9.9929e-11	9.9929e-11
101	9.9999e-11	9.9929e-11	9.9929e-11
102	9.9999e-11	9.9928e-11	9.9928e-11
103	9.9999e-11	9.9927e-11	9.9927e-11
104	9.9999e-11	9.9927e-11	9.9927e-11
105	9.9999e-11	9.9926e-11	9.9926e-11
106	9.9999e-11	9.9925e-11	9.9925e-11
107	9.9999e-11	9.9925e-11	9.9925e-11
108	9.9999e-11	9.9924e-11	9.9924e-11
109	9.9999e-11	9.9923e-11	9.9923e-11
110	9.9999e-11	9.9922e-11	9.9922e-11
111	9.9999e-11	9.9922e-11	9.9922e-11
112	9.9999e-11	9.9921e-11	9.9921e-11
113	9.9999e-11	9.9920e-11	9.9920e-11
114	9.9999e-11	9.9920e-11	9.9920e-11
115	9.9999e-11	9.9919e-11	9.9919e-11
116	9.9999e-11	9.9918e-11	9.9918e-11

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x	$A(x)$	P_{v1}	P_{v2}
117	9.9999e-11	9.9918e-11	9.9918e-11
118	9.9999e-11	9.9917e-11	9.9917e-11
119	9.9999e-11	9.9916e-11	9.9916e-11
120	9.9999e-11	9.9915e-11	9.9915e-11
121	9.9999e-11	9.9915e-11	9.9915e-11
122	9.9999e-11	9.9914e-11	9.9914e-11
123	9.9999e-11	9.9913e-11	9.9913e-11
124	9.9999e-11	9.9913e-11	9.9913e-11
125	9.9999e-11	9.9912e-11	9.9912e-11
126	9.9999e-11	9.9911e-11	9.9911e-11
127	9.9999e-11	9.9911e-11	9.9911e-11
128	9.9999e-11	9.9910e-11	9.9910e-11
129	9.9999e-11	9.9909e-11	9.9909e-11
130	9.9999e-11	9.9909e-11	9.9909e-11
131	9.9999e-11	9.9908e-11	9.9908e-11
132	9.9999e-11	9.9907e-11	9.9907e-11
133	9.9999e-11	9.9906e-11	9.9906e-11
134	9.9999e-11	9.9906e-11	9.9906e-11
135	9.9999e-11	9.9905e-11	9.9905e-11
136	9.9999e-11	9.9904e-11	9.9904e-11
137	9.9999e-11	9.9904e-11	9.9904e-11
138	9.9999e-11	9.9903e-11	9.9903e-11
139	9.9999e-11	9.9902e-11	9.9902e-11
140	9.9999e-11	9.9902e-11	9.9902e-11
141	9.9999e-11	9.9901e-11	9.9901e-11
142	9.9999e-11	9.9900e-11	9.9900e-11
143	9.9999e-11	9.9899e-11	9.9899e-11
144	9.9999e-11	9.9899e-11	9.9899e-11
145	9.9999e-11	9.9898e-11	9.9898e-11
146	9.9999e-11	9.9897e-11	9.9897e-11
147	9.9999e-11	9.9897e-11	9.9897e-11
148	9.9999e-11	9.9896e-11	9.9896e-11
149	9.9999e-11	9.9895e-11	9.9895e-11
150	9.9999e-11	9.9895e-11	9.9895e-11
151	9.9999e-11	9.9894e-11	9.9894e-11
152	9.9999e-11	9.9893e-11	9.9893e-11
153	9.9999e-11	9.9892e-11	9.9892e-11
154	9.9999e-11	9.9892e-11	9.9892e-11
155	9.9999e-11	9.9891e-11	9.9891e-11
156	9.9999e-11	9.9890e-11	9.9890e-11

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x	$A(x)$	P_{v1}	P_{v2}
157	9.9999e-11	9.9890e-11	9.9890e-11
158	9.9999e-11	9.9889e-11	9.9889e-11
159	9.9999e-11	9.9888e-11	9.9888e-11
160	9.9999e-11	9.9888e-11	9.9888e-11
161	9.9999e-11	9.9887e-11	9.9887e-11
162	9.9999e-11	9.9886e-11	9.9886e-11
163	9.9999e-11	9.9885e-11	9.9885e-11
164	9.9999e-11	9.9885e-11	9.9885e-11
165	9.9999e-11	9.9884e-11	9.9884e-11
166	9.9999e-11	9.9883e-11	9.9883e-11
167	9.9999e-11	9.9883e-11	9.9883e-11
168	9.9999e-11	9.9882e-11	9.9882e-11
169	9.9999e-11	9.9881e-11	9.9881e-11
170	9.9999e-11	9.9881e-11	9.9881e-11
171	9.9999e-11	9.9880e-11	9.9880e-11
172	9.9999e-11	9.9879e-11	9.9879e-11
173	9.9999e-11	9.9878e-11	9.9878e-11
174	9.9999e-11	9.9878e-11	9.9878e-11
175	9.9999e-11	9.9877e-11	9.9877e-11
176	9.9999e-11	9.9876e-11	9.9876e-11
177	9.9999e-11	9.9876e-11	9.9876e-11
178	9.9999e-11	9.9875e-11	9.9875e-11
179	9.9999e-11	9.9874e-11	9.9874e-11
180	9.9999e-11	9.9874e-11	9.9874e-11
181	9.9999e-11	9.9873e-11	9.9873e-11
182	9.9999e-11	9.9872e-11	9.9872e-11
183	9.9999e-11	9.9871e-11	9.9871e-11
184	9.9999e-11	9.9871e-11	9.9871e-11
185	9.9999e-11	9.9870e-11	9.9870e-11
186	9.9999e-11	9.9869e-11	9.9869e-11
187	9.9999e-11	9.9869e-11	9.9869e-11
188	9.9999e-11	9.9868e-11	9.9868e-11
189	9.9999e-11	9.9867e-11	9.9867e-11
190	9.9999e-11	9.9867e-11	9.9867e-11
191	9.9999e-11	9.9866e-11	9.9866e-11
192	9.9999e-11	9.9865e-11	9.9865e-11
193	9.9999e-11	9.9864e-11	9.9864e-11
194	9.9999e-11	9.9864e-11	9.9864e-11
195	9.9999e-11	9.9863e-11	9.9863e-11
196	9.9999e-11	9.9862e-11	9.9862e-11

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x	$A(x)$	P_{v1}	P_{v2}
197	9.9999e-11	9.9862e-11	9.9862e-11
198	9.9999e-11	9.9861e-11	9.9861e-11
199	9.9999e-11	9.9860e-11	9.9860e-11
200	9.9999e-11	9.9860e-11	9.9860e-11
201	9.9999e-11	9.9859e-11	9.9859e-11
202	9.9999e-11	9.9858e-11	9.9858e-11
203	9.9999e-11	9.9857e-11	9.9857e-11
204	9.9999e-11	9.9857e-11	9.9857e-11
205	9.9999e-11	9.9856e-11	9.9856e-11
206	9.9999e-11	9.9855e-11	9.9855e-11
207	9.9999e-11	9.9855e-11	9.9855e-11
208	9.9999e-11	9.9854e-11	9.9854e-11
209	9.9999e-11	9.9853e-11	9.9853e-11
210	9.9999e-11	9.9853e-11	9.9853e-11
211	9.9999e-11	9.9852e-11	9.9852e-11
212	9.9999e-11	9.9851e-11	9.9851e-11
213	9.9999e-11	9.9850e-11	9.9850e-11
214	9.9999e-11	9.9850e-11	9.9850e-11
215	9.9999e-11	9.9849e-11	9.9849e-11
216	9.9999e-11	9.9848e-11	9.9848e-11
217	9.9999e-11	9.9848e-11	9.9848e-11
218	9.9999e-11	9.9847e-11	9.9847e-11
219	9.9999e-11	9.9846e-11	9.9846e-11
220	9.9999e-11	9.9846e-11	9.9846e-11
221	9.9999e-11	9.9845e-11	9.9845e-11
222	9.9999e-11	9.9844e-11	9.9844e-11
223	9.9999e-11	9.9843e-11	9.9843e-11
224	9.9999e-11	9.9843e-11	9.9843e-11
225	9.9999e-11	9.9842e-11	9.9842e-11
226	9.9999e-11	9.9841e-11	9.9841e-11
227	9.9999e-11	9.9841e-11	9.9841e-11
228	9.9999e-11	9.9840e-11	9.9840e-11
229	9.9999e-11	9.9839e-11	9.9839e-11
230	9.9999e-11	9.9839e-11	9.9839e-11
231	9.9999e-11	9.9838e-11	9.9838e-11
232	9.9999e-11	9.9837e-11	9.9837e-11
233	9.9999e-11	9.9836e-11	9.9836e-11
234	9.9999e-11	9.9836e-11	9.9836e-11
235	9.9999e-11	9.9835e-11	9.9835e-11
236	9.9999e-11	9.9834e-11	9.9834e-11

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x	$A(x)$	P_{v1}	P_{v2}
237	9.9999e-11	9.9834e-11	9.9834e-11
238	9.9999e-11	9.9833e-11	9.9833e-11
239	9.9999e-11	9.9832e-11	9.9832e-11
240	9.9999e-11	9.9832e-11	9.9832e-11
241	9.9999e-11	9.9831e-11	9.9831e-11
242	9.9999e-11	9.9830e-11	9.9830e-11
243	9.9999e-11	9.9829e-11	9.9829e-11
244	9.9999e-11	9.9829e-11	9.9829e-11
245	9.9999e-11	9.9828e-11	9.9828e-11
246	9.9999e-11	9.9827e-11	9.9827e-11
247	9.9999e-11	9.9827e-11	9.9827e-11
248	9.9999e-11	9.9826e-11	9.9826e-11
249	9.9999e-11	9.9825e-11	9.9825e-11
250	9.9999e-11	9.9825e-11	9.9825e-11
251	9.9999e-11	9.9824e-11	9.9824e-11
252	9.9999e-11	9.9823e-11	9.9823e-11
253	9.9999e-11	9.9822e-11	9.9822e-11
254	9.9999e-11	9.9822e-11	9.9822e-11
255	9.9999e-11	9.9821e-11	9.9821e-11
256	9.9999e-11	9.9820e-11	9.9820e-11
257	9.9999e-11	9.9820e-11	9.9820e-11
258	9.9999e-11	9.9819e-11	9.9819e-11
259	9.9999e-11	9.9818e-11	9.9818e-11
260	9.9999e-11	9.9818e-11	9.9818e-11
261	9.9999e-11	9.9817e-11	9.9817e-11
262	9.9999e-11	9.9816e-11	9.9816e-11
263	9.9999e-11	9.9815e-11	9.9815e-11
264	9.9999e-11	9.9815e-11	9.9815e-11
265	9.9999e-11	9.9814e-11	9.9814e-11
266	9.9999e-11	9.9813e-11	9.9813e-11
267	9.9999e-11	9.9813e-11	9.9813e-11
268	9.9999e-11	9.9812e-11	9.9812e-11
269	9.9999e-11	9.9811e-11	9.9811e-11
270	9.9999e-11	9.9810e-11	9.9810e-11
271	9.9999e-11	9.9810e-11	9.9810e-11
272	9.9999e-11	9.9809e-11	9.9809e-11
273	9.9999e-11	9.9808e-11	9.9808e-11
274	9.9999e-11	9.9808e-11	9.9808e-11
275	9.9999e-11	9.9807e-11	9.9807e-11
276	9.9999e-11	9.9806e-11	9.9806e-11

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x	$A(x)$	P_{v1}	P_{v2}
277	9.9999e-11	9.9806e-11	9.9806e-11
278	9.9999e-11	9.9805e-11	9.9805e-11
279	9.9999e-11	9.9804e-11	9.9804e-11
280	9.9999e-11	9.9803e-11	9.9803e-11
281	9.9999e-11	9.9803e-11	9.9803e-11
282	9.9999e-11	9.9802e-11	9.9802e-11
283	9.9999e-11	9.9801e-11	9.9801e-11
284	9.9999e-11	9.9801e-11	9.9801e-11
285	9.9999e-11	9.9800e-11	9.9800e-11
286	9.9999e-11	9.9799e-11	9.9799e-11
287	9.9999e-11	9.9799e-11	9.9799e-11
288	9.9999e-11	9.9798e-11	9.9798e-11
289	9.9999e-11	9.9797e-11	9.9797e-11
290	9.9999e-11	9.9796e-11	9.9796e-11
291	9.9999e-11	9.9796e-11	9.9796e-11
292	9.9999e-11	9.9795e-11	9.9795e-11
293	9.9999e-11	9.9794e-11	9.9794e-11
294	9.9999e-11	9.9794e-11	9.9794e-11
295	9.9999e-11	9.9793e-11	9.9793e-11
296	9.9999e-11	9.9792e-11	9.9792e-11
297	9.9999e-11	9.9792e-11	9.9792e-11
298	9.9999e-11	9.9791e-11	9.9791e-11
299	9.9999e-11	9.9790e-11	9.9790e-11
300	9.9999e-11	9.9789e-11	9.9789e-11
301	9.9999e-11	9.9789e-11	9.9789e-11
302	9.9999e-11	9.9788e-11	9.9788e-11
303	9.9999e-11	9.9787e-11	9.9787e-11
304	9.9999e-11	9.9787e-11	9.9787e-11
305	9.9999e-11	9.9786e-11	9.9786e-11
306	9.9999e-11	9.9785e-11	9.9785e-11
307	9.9999e-11	9.9784e-11	9.9784e-11
308	9.9999e-11	9.9784e-11	9.9784e-11
309	9.9999e-11	9.9783e-11	9.9783e-11
310	9.9999e-11	9.9782e-11	9.9782e-11
311	9.9999e-11	9.9782e-11	9.9782e-11
312	9.9999e-11	9.9781e-11	9.9781e-11
313	9.9999e-11	9.9780e-11	9.9780e-11
314	9.9999e-11	9.9780e-11	9.9780e-11
315	9.9999e-11	9.9779e-11	9.9779e-11
316	9.9999e-11	9.9778e-11	9.9778e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
317	9.9999e-11	9.9777e-11	9.9777e-11
318	9.9999e-11	9.9777e-11	9.9777e-11
319	9.9999e-11	9.9776e-11	9.9776e-11
320	9.9999e-11	9.9775e-11	9.9775e-11
321	9.9999e-11	9.9775e-11	9.9775e-11
322	9.9999e-11	9.9774e-11	9.9774e-11
323	9.9999e-11	9.9773e-11	9.9773e-11
324	9.9999e-11	9.9772e-11	9.9772e-11
325	9.9999e-11	9.9772e-11	9.9772e-11
326	9.9999e-11	9.9771e-11	9.9771e-11
327	9.9999e-11	9.9770e-11	9.9770e-11
328	9.9999e-11	9.9770e-11	9.9770e-11
329	9.9999e-11	9.9769e-11	9.9769e-11
330	9.9999e-11	9.9768e-11	9.9768e-11
331	9.9999e-11	9.9768e-11	9.9768e-11
332	9.9999e-11	9.9767e-11	9.9767e-11
333	9.9999e-11	9.9766e-11	9.9766e-11
334	9.9999e-11	9.9765e-11	9.9765e-11
335	9.9999e-11	9.9765e-11	9.9765e-11
336	9.9999e-11	9.9764e-11	9.9764e-11
337	9.9999e-11	9.9763e-11	9.9763e-11
338	9.9999e-11	9.9763e-11	9.9763e-11
339	9.9999e-11	9.9762e-11	9.9762e-11
340	9.9999e-11	9.9761e-11	9.9761e-11
341	9.9999e-11	9.9761e-11	9.9761e-11
342	9.9999e-11	9.9760e-11	9.9760e-11
343	9.9999e-11	9.9759e-11	9.9759e-11
344	9.9999e-11	9.9758e-11	9.9758e-11
345	9.9999e-11	9.9758e-11	9.9758e-11
346	9.9999e-11	9.9757e-11	9.9757e-11
347	9.9999e-11	9.9756e-11	9.9756e-11
348	9.9999e-11	9.9756e-11	9.9756e-11
349	9.9999e-11	9.9755e-11	9.9755e-11
350	9.9999e-11	9.9754e-11	9.9754e-11
351	9.9999e-11	9.9753e-11	9.9753e-11
352	9.9999e-11	9.9753e-11	9.9753e-11
353	9.9999e-11	9.9752e-11	9.9752e-11
354	9.9999e-11	9.9751e-11	9.9751e-11
355	9.9999e-11	9.9751e-11	9.9751e-11
356	9.9999e-11	9.9750e-11	9.9750e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
357	9.9999e-11	9.9749e-11	9.9749e-11
358	9.9999e-11	9.9749e-11	9.9749e-11
359	9.9999e-11	9.9748e-11	9.9748e-11
360	9.9999e-11	9.9747e-11	9.9747e-11
361	9.9999e-11	9.9746e-11	9.9746e-11
362	9.9999e-11	9.9746e-11	9.9746e-11
363	9.9999e-11	9.9745e-11	9.9745e-11
364	9.9999e-11	9.9744e-11	9.9744e-11
365	9.9999e-11	9.9744e-11	9.9744e-11
366	9.9999e-11	9.9743e-11	9.9743e-11
367	9.9999e-11	9.9742e-11	9.9742e-11
368	9.9999e-11	9.9741e-11	9.9741e-11
369	9.9999e-11	9.9741e-11	9.9741e-11
370	9.9999e-11	9.9740e-11	9.9740e-11
371	9.9999e-11	9.9739e-11	9.9739e-11
372	9.9999e-11	9.9739e-11	9.9739e-11
373	9.9999e-11	9.9738e-11	9.9738e-11
374	9.9999e-11	9.9737e-11	9.9737e-11
375	9.9999e-11	9.9737e-11	9.9737e-11
376	9.9999e-11	9.9736e-11	9.9736e-11
377	9.9999e-11	9.9735e-11	9.9735e-11
378	9.9999e-11	9.9734e-11	9.9734e-11
379	9.9999e-11	9.9734e-11	9.9734e-11
380	9.9999e-11	9.9733e-11	9.9733e-11
381	9.9999e-11	9.9732e-11	9.9732e-11
382	9.9999e-11	9.9732e-11	9.9732e-11
383	9.9999e-11	9.9731e-11	9.9731e-11
384	9.9999e-11	9.9730e-11	9.9730e-11
385	9.9999e-11	9.9729e-11	9.9729e-11
386	9.9999e-11	9.9729e-11	9.9729e-11
387	9.9999e-11	9.9728e-11	9.9728e-11
388	9.9999e-11	9.9727e-11	9.9727e-11
389	9.9999e-11	9.9727e-11	9.9727e-11
390	9.9999e-11	9.9726e-11	9.9726e-11
391	9.9999e-11	9.9725e-11	9.9725e-11
392	9.9999e-11	9.9725e-11	9.9725e-11
393	9.9999e-11	9.9724e-11	9.9724e-11
394	9.9999e-11	9.9723e-11	9.9723e-11
395	9.9999e-11	9.9722e-11	9.9722e-11
396	9.9999e-11	9.9722e-11	9.9722e-11

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x	$A(x)$	P_{v1}	P_{v2}
397	9.9999e-11	9.9721e-11	9.9721e-11
398	9.9999e-11	9.9720e-11	9.9720e-11
399	9.9999e-11	9.9720e-11	9.9720e-11
400	9.9999e-11	9.9719e-11	9.9719e-11
401	9.9999e-11	9.9718e-11	9.9718e-11
402	9.9999e-11	9.9717e-11	9.9717e-11
403	9.9999e-11	9.9717e-11	9.9717e-11
404	9.9999e-11	9.9716e-11	9.9716e-11
405	9.9999e-11	9.9715e-11	9.9715e-11
406	9.9999e-11	9.9715e-11	9.9715e-11
407	9.9999e-11	9.9714e-11	9.9714e-11
408	9.9999e-11	9.9713e-11	9.9713e-11
409	9.9999e-11	9.9712e-11	9.9712e-11
410	9.9999e-11	9.9712e-11	9.9712e-11
411	9.9999e-11	9.9711e-11	9.9711e-11
412	9.9999e-11	9.9710e-11	9.9710e-11
413	9.9999e-11	9.9710e-11	9.9710e-11
414	9.9999e-11	9.9709e-11	9.9709e-11
415	9.9999e-11	9.9708e-11	9.9708e-11
416	9.9999e-11	9.9708e-11	9.9708e-11
417	9.9999e-11	9.9707e-11	9.9707e-11
418	9.9999e-11	9.9706e-11	9.9706e-11
419	9.9999e-11	9.9705e-11	9.9705e-11
420	9.9999e-11	9.9705e-11	9.9705e-11
421	9.9999e-11	9.9704e-11	9.9704e-11
422	9.9999e-11	9.9703e-11	9.9703e-11
423	9.9999e-11	9.9703e-11	9.9703e-11
424	9.9999e-11	9.9702e-11	9.9702e-11
425	9.9999e-11	9.9701e-11	9.9701e-11
426	9.9999e-11	9.9700e-11	9.9700e-11
427	9.9999e-11	9.9700e-11	9.9700e-11
428	9.9999e-11	9.9699e-11	9.9699e-11
429	9.9999e-11	9.9698e-11	9.9698e-11
430	9.9999e-11	9.9698e-11	9.9698e-11
431	9.9999e-11	9.9697e-11	9.9697e-11
432	9.9999e-11	9.9696e-11	9.9696e-11
433	9.9999e-11	9.9696e-11	9.9696e-11
434	9.9999e-11	9.9695e-11	9.9695e-11
435	9.9999e-11	9.9694e-11	9.9694e-11
436	9.9999e-11	9.9693e-11	9.9693e-11

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x	$A(x)$	P_{v1}	P_{v2}
437	9.9999e-11	9.9693e-11	9.9693e-11
438	9.9999e-11	9.9692e-11	9.9692e-11
439	9.9999e-11	9.9691e-11	9.9691e-11
440	9.9999e-11	9.9691e-11	9.9691e-11
441	9.9999e-11	9.9690e-11	9.9690e-11
442	9.9999e-11	9.9689e-11	9.9689e-11
443	9.9999e-11	9.9688e-11	9.9688e-11
444	9.9999e-11	9.9688e-11	9.9688e-11
445	9.9999e-11	9.9687e-11	9.9687e-11
446	9.9999e-11	9.9686e-11	9.9686e-11
447	9.9999e-11	9.9686e-11	9.9686e-11
448	9.9999e-11	9.9685e-11	9.9685e-11
449	9.9999e-11	9.9684e-11	9.9684e-11
450	9.9999e-11	9.9683e-11	9.9683e-11
451	9.9999e-11	9.9683e-11	9.9683e-11
452	9.9999e-11	9.9682e-11	9.9682e-11
453	9.9999e-11	9.9681e-11	9.9681e-11
454	9.9999e-11	9.9681e-11	9.9681e-11
455	9.9999e-11	9.9680e-11	9.9680e-11
456	9.9999e-11	9.9679e-11	9.9679e-11
457	9.9999e-11	9.9679e-11	9.9679e-11
458	9.9999e-11	9.9678e-11	9.9678e-11
459	9.9999e-11	9.9677e-11	9.9677e-11
460	9.9999e-11	9.9676e-11	9.9676e-11
461	9.9999e-11	9.9676e-11	9.9676e-11
462	9.9999e-11	9.9675e-11	9.9675e-11
463	9.9999e-11	9.9674e-11	9.9674e-11
464	9.9999e-11	9.9674e-11	9.9674e-11
465	9.9999e-11	9.9673e-11	9.9673e-11
466	9.9999e-11	9.9672e-11	9.9672e-11
467	9.9999e-11	9.9671e-11	9.9671e-11
468	9.9999e-11	9.9671e-11	9.9671e-11
469	9.9999e-11	9.9670e-11	9.9670e-11
470	9.9999e-11	9.9669e-11	9.9669e-11
471	9.9999e-11	9.9669e-11	9.9669e-11
472	9.9999e-11	9.9668e-11	9.9668e-11
473	9.9999e-11	9.9667e-11	9.9667e-11
474	9.9999e-11	9.9666e-11	9.9666e-11
475	9.9999e-11	9.9666e-11	9.9666e-11
476	9.9999e-11	9.9665e-11	9.9665e-11

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x	$A(x)$	P_{v1}	P_{v2}
477	9.9999e-11	9.9664e-11	9.9664e-11
478	9.9999e-11	9.9664e-11	9.9664e-11
479	9.9999e-11	9.9663e-11	9.9663e-11
480	9.9999e-11	9.9662e-11	9.9662e-11
481	9.9999e-11	9.9661e-11	9.9661e-11
482	9.9999e-11	9.9661e-11	9.9661e-11
483	9.9999e-11	9.9660e-11	9.9660e-11
484	9.9999e-11	9.9659e-11	9.9659e-11
485	9.9999e-11	9.9659e-11	9.9659e-11
486	9.9999e-11	9.9658e-11	9.9658e-11
487	9.9999e-11	9.9657e-11	9.9657e-11
488	9.9999e-11	9.9657e-11	9.9657e-11
489	9.9999e-11	9.9656e-11	9.9656e-11
490	9.9999e-11	9.9655e-11	9.9655e-11
491	9.9999e-11	9.9654e-11	9.9654e-11
492	9.9999e-11	9.9654e-11	9.9654e-11
493	9.9999e-11	9.9653e-11	9.9653e-11
494	9.9999e-11	9.9652e-11	9.9652e-11
495	9.9999e-11	9.9652e-11	9.9652e-11
496	9.9999e-11	9.9651e-11	9.9651e-11
497	9.9999e-11	9.9650e-11	9.9650e-11
498	9.9999e-11	9.9649e-11	9.9649e-11
499	9.9999e-11	9.9649e-11	9.9649e-11
500	9.9999e-11	9.9648e-11	9.9648e-11
501	9.9999e-11	9.9647e-11	9.9647e-11
502	9.9999e-11	9.9647e-11	9.9647e-11
503	9.9999e-11	9.9646e-11	9.9646e-11
504	9.9999e-11	9.9645e-11	9.9645e-11
505	9.9999e-11	9.9644e-11	9.9644e-11
506	9.9999e-11	9.9644e-11	9.9644e-11
507	9.9999e-11	9.9643e-11	9.9643e-11
508	9.9999e-11	9.9642e-11	9.9642e-11
509	9.9999e-11	9.9642e-11	9.9642e-11
510	9.9999e-11	9.9641e-11	9.9641e-11
511	9.9999e-11	9.9640e-11	9.9640e-11
512	9.9999e-11	9.9639e-11	9.9639e-11
513	9.9999e-11	9.9639e-11	9.9639e-11
514	9.9999e-11	9.9638e-11	9.9638e-11
515	9.9999e-11	9.9637e-11	9.9637e-11
516	9.9999e-11	9.9637e-11	9.9637e-11

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x	$A(x)$	P_{v1}	P_{v2}
517	9.9999e-11	9.9636e-11	9.9636e-11
518	9.9999e-11	9.9635e-11	9.9635e-11
519	9.9999e-11	9.9634e-11	9.9634e-11
520	9.9999e-11	9.9634e-11	9.9634e-11
521	9.9999e-11	9.9633e-11	9.9633e-11
522	9.9999e-11	9.9632e-11	9.9632e-11
523	9.9999e-11	9.9632e-11	9.9632e-11
524	9.9999e-11	9.9631e-11	9.9631e-11
525	9.9999e-11	9.9630e-11	9.9630e-11
526	9.9999e-11	9.9630e-11	9.9630e-11
527	9.9999e-11	9.9629e-11	9.9629e-11
528	9.9999e-11	9.9628e-11	9.9628e-11
529	9.9999e-11	9.9627e-11	9.9627e-11
530	9.9999e-11	9.9627e-11	9.9627e-11
531	9.9999e-11	9.9626e-11	9.9626e-11
532	9.9999e-11	9.9625e-11	9.9625e-11
533	9.9999e-11	9.9625e-11	9.9625e-11
534	9.9999e-11	9.9624e-11	9.9624e-11
535	9.9999e-11	9.9623e-11	9.9623e-11
536	9.9999e-11	9.9622e-11	9.9622e-11
537	9.9999e-11	9.9622e-11	9.9622e-11
538	9.9999e-11	9.9621e-11	9.9621e-11
539	9.9999e-11	9.9620e-11	9.9620e-11
540	9.9999e-11	9.9620e-11	9.9620e-11
541	9.9999e-11	9.9619e-11	9.9619e-11
542	9.9999e-11	9.9618e-11	9.9618e-11
543	9.9999e-11	9.9617e-11	9.9617e-11
544	9.9999e-11	9.9617e-11	9.9617e-11
545	9.9999e-11	9.9616e-11	9.9616e-11
546	9.9999e-11	9.9615e-11	9.9615e-11
547	9.9999e-11	9.9615e-11	9.9615e-11
548	9.9999e-11	9.9614e-11	9.9614e-11
549	9.9999e-11	9.9613e-11	9.9613e-11
550	9.9999e-11	9.9612e-11	9.9612e-11
551	9.9999e-11	9.9612e-11	9.9612e-11
552	9.9999e-11	9.9611e-11	9.9611e-11
553	9.9999e-11	9.9610e-11	9.9610e-11
554	9.9999e-11	9.9610e-11	9.9610e-11
555	9.9999e-11	9.9609e-11	9.9609e-11
556	9.9999e-11	9.9608e-11	9.9608e-11

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x	$A(x)$	P_{v1}	P_{v2}
557	9.9999e-11	9.9607e-11	9.9607e-11
558	9.9999e-11	9.9607e-11	9.9607e-11
559	9.9999e-11	9.9606e-11	9.9606e-11
560	9.9999e-11	9.9605e-11	9.9605e-11
561	9.9999e-11	9.9605e-11	9.9605e-11
562	9.9999e-11	9.9604e-11	9.9604e-11
563	9.9999e-11	9.9603e-11	9.9603e-11
564	9.9999e-11	9.9602e-11	9.9602e-11
565	9.9999e-11	9.9602e-11	9.9602e-11
566	9.9999e-11	9.9601e-11	9.9601e-11
567	9.9999e-11	9.9600e-11	9.9600e-11
568	9.9999e-11	9.9600e-11	9.9600e-11
569	9.9999e-11	9.9599e-11	9.9599e-11
570	9.9999e-11	9.9598e-11	9.9598e-11
571	9.9999e-11	9.9597e-11	9.9597e-11
572	9.9999e-11	9.9597e-11	9.9597e-11
573	9.9999e-11	9.9596e-11	9.9596e-11
574	9.9999e-11	9.9595e-11	9.9595e-11
575	9.9999e-11	9.9595e-11	9.9595e-11
576	9.9999e-11	9.9594e-11	9.9594e-11
577	9.9999e-11	9.9593e-11	9.9593e-11
578	9.9999e-11	9.9592e-11	9.9592e-11
579	9.9999e-11	9.9592e-11	9.9592e-11
580	9.9999e-11	9.9591e-11	9.9591e-11
581	9.9999e-11	9.9590e-11	9.9590e-11
582	9.9999e-11	9.9590e-11	9.9590e-11
583	9.9999e-11	9.9589e-11	9.9589e-11
584	9.9999e-11	9.9588e-11	9.9588e-11
585	9.9999e-11	9.9587e-11	9.9587e-11
586	9.9999e-11	9.9587e-11	9.9587e-11
587	9.9999e-11	9.9586e-11	9.9586e-11
588	9.9999e-11	9.9585e-11	9.9585e-11
589	9.9999e-11	9.9585e-11	9.9585e-11
590	9.9999e-11	9.9584e-11	9.9584e-11
591	9.9999e-11	9.9583e-11	9.9583e-11
592	9.9999e-11	9.9582e-11	9.9582e-11
593	9.9999e-11	9.9582e-11	9.9582e-11
594	9.9999e-11	9.9581e-11	9.9581e-11
595	9.9999e-11	9.9580e-11	9.9580e-11
596	9.9999e-11	9.9580e-11	9.9580e-11

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x	$A(x)$	P_{v1}	P_{v2}
597	9.9999e-11	9.9579e-11	9.9579e-11
598	9.9999e-11	9.9578e-11	9.9578e-11
599	9.9999e-11	9.9577e-11	9.9577e-11
600	9.9999e-11	9.9577e-11	9.9577e-11
601	9.9999e-11	9.9576e-11	9.9576e-11
602	9.9999e-11	9.9575e-11	9.9575e-11
603	9.9999e-11	9.9575e-11	9.9575e-11
604	9.9999e-11	9.9574e-11	9.9574e-11
605	9.9999e-11	9.9573e-11	9.9573e-11
606	9.9999e-11	9.9572e-11	9.9572e-11
607	9.9999e-11	9.9572e-11	9.9572e-11
608	9.9999e-11	9.9571e-11	9.9571e-11
609	9.9999e-11	9.9570e-11	9.9570e-11
610	9.9999e-11	9.9570e-11	9.9570e-11
611	9.9999e-11	9.9569e-11	9.9569e-11
612	9.9999e-11	9.9568e-11	9.9568e-11
613	9.9999e-11	9.9567e-11	9.9567e-11
614	9.9999e-11	9.9567e-11	9.9567e-11
615	9.9999e-11	9.9566e-11	9.9566e-11
616	9.9999e-11	9.9565e-11	9.9565e-11
617	9.9999e-11	9.9565e-11	9.9565e-11
618	9.9999e-11	9.9564e-11	9.9564e-11
619	9.9999e-11	9.9563e-11	9.9563e-11
620	9.9999e-11	9.9562e-11	9.9562e-11
621	9.9999e-11	9.9562e-11	9.9562e-11
622	9.9999e-11	9.9561e-11	9.9561e-11
623	9.9999e-11	9.9560e-11	9.9560e-11
624	9.9999e-11	9.9560e-11	9.9560e-11
625	9.9999e-11	9.9559e-11	9.9559e-11
626	9.9999e-11	9.9558e-11	9.9558e-11
627	9.9999e-11	9.9557e-11	9.9557e-11
628	9.9999e-11	9.9557e-11	9.9557e-11
629	9.9999e-11	9.9556e-11	9.9556e-11
630	9.9999e-11	9.9555e-11	9.9555e-11
631	9.9999e-11	9.9555e-11	9.9555e-11
632	9.9999e-11	9.9554e-11	9.9554e-11
633	9.9999e-11	9.9553e-11	9.9553e-11
634	9.9999e-11	9.9552e-11	9.9552e-11
635	9.9999e-11	9.9552e-11	9.9552e-11
636	9.9999e-11	9.9551e-11	9.9551e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
637	9.9999e-11	9.9550e-11	9.9550e-11
638	9.9999e-11	9.9550e-11	9.9550e-11
639	9.9999e-11	9.9549e-11	9.9549e-11
640	9.9999e-11	9.9548e-11	9.9548e-11
641	9.9999e-11	9.9547e-11	9.9547e-11
642	9.9999e-11	9.9547e-11	9.9547e-11
643	9.9999e-11	9.9546e-11	9.9546e-11
644	9.9999e-11	9.9545e-11	9.9545e-11
645	9.9999e-11	9.9545e-11	9.9545e-11
646	9.9999e-11	9.9544e-11	9.9544e-11
647	9.9999e-11	9.9543e-11	9.9543e-11
648	9.9999e-11	9.9542e-11	9.9542e-11
649	9.9999e-11	9.9542e-11	9.9542e-11
650	9.9999e-11	9.9541e-11	9.9541e-11
651	9.9999e-11	9.9540e-11	9.9540e-11
652	9.9999e-11	9.9540e-11	9.9540e-11
653	9.9999e-11	9.9539e-11	9.9539e-11
654	9.9999e-11	9.9538e-11	9.9538e-11
655	9.9999e-11	9.9537e-11	9.9537e-11
656	9.9999e-11	9.9537e-11	9.9537e-11
657	9.9999e-11	9.9536e-11	9.9536e-11
658	9.9999e-11	9.9535e-11	9.9535e-11
659	9.9999e-11	9.9535e-11	9.9535e-11
660	9.9999e-11	9.9534e-11	9.9534e-11
661	9.9999e-11	9.9533e-11	9.9533e-11
662	9.9999e-11	9.9532e-11	9.9532e-11
663	9.9999e-11	9.9532e-11	9.9532e-11
664	9.9999e-11	9.9531e-11	9.9531e-11
665	9.9999e-11	9.9530e-11	9.9530e-11
666	9.9999e-11	9.9530e-11	9.9530e-11
667	9.9999e-11	9.9529e-11	9.9529e-11
668	9.9999e-11	9.9528e-11	9.9528e-11
669	9.9999e-11	9.9527e-11	9.9527e-11
670	9.9999e-11	9.9527e-11	9.9527e-11
671	9.9999e-11	9.9526e-11	9.9526e-11
672	9.9999e-11	9.9525e-11	9.9525e-11
673	9.9999e-11	9.9525e-11	9.9525e-11
674	9.9999e-11	9.9524e-11	9.9524e-11
675	9.9999e-11	9.9523e-11	9.9523e-11
676	9.9999e-11	9.9522e-11	9.9522e-11

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x	$A(x)$	P_{v1}	P_{v2}
677	9.9999e-11	9.9522e-11	9.9522e-11
678	9.9999e-11	9.9521e-11	9.9521e-11
679	9.9999e-11	9.9520e-11	9.9520e-11
680	9.9999e-11	9.9520e-11	9.9520e-11
681	9.9999e-11	9.9519e-11	9.9519e-11
682	9.9999e-11	9.9518e-11	9.9518e-11
683	9.9999e-11	9.9517e-11	9.9517e-11
684	9.9999e-11	9.9517e-11	9.9517e-11
685	9.9999e-11	9.9516e-11	9.9516e-11
686	9.9999e-11	9.9515e-11	9.9515e-11
687	9.9999e-11	9.9515e-11	9.9515e-11
688	9.9999e-11	9.9514e-11	9.9514e-11
689	9.9999e-11	9.9513e-11	9.9513e-11
690	9.9999e-11	9.9512e-11	9.9512e-11
691	9.9999e-11	9.9512e-11	9.9512e-11
692	9.9999e-11	9.9511e-11	9.9511e-11
693	9.9999e-11	9.9510e-11	9.9510e-11
694	9.9999e-11	9.9510e-11	9.9510e-11
695	9.9999e-11	9.9509e-11	9.9509e-11
696	9.9999e-11	9.9508e-11	9.9508e-11
697	9.9999e-11	9.9507e-11	9.9507e-11
698	9.9999e-11	9.9507e-11	9.9507e-11
699	9.9999e-11	9.9506e-11	9.9506e-11
700	9.9999e-11	9.9505e-11	9.9505e-11
701	9.9999e-11	9.9505e-11	9.9505e-11
702	9.9999e-11	9.9504e-11	9.9504e-11
703	9.9999e-11	9.9503e-11	9.9503e-11
704	9.9999e-11	9.9502e-11	9.9502e-11
705	9.9999e-11	9.9502e-11	9.9502e-11
706	9.9999e-11	9.9501e-11	9.9501e-11
707	9.9999e-11	9.9500e-11	9.9500e-11
708	9.9999e-11	9.9499e-11	9.9499e-11
709	9.9999e-11	9.9499e-11	9.9499e-11
710	9.9999e-11	9.9498e-11	9.9498e-11
711	9.9999e-11	9.9497e-11	9.9497e-11
712	9.9999e-11	9.9497e-11	9.9497e-11
713	9.9999e-11	9.9496e-11	9.9496e-11
714	9.9999e-11	9.9495e-11	9.9495e-11
715	9.9999e-11	9.9494e-11	9.9494e-11
716	9.9999e-11	9.9494e-11	9.9494e-11

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x	$A(x)$	P_{v1}	P_{v2}
717	9.9999e-11	9.9493e-11	9.9493e-11
718	9.9999e-11	9.9492e-11	9.9492e-11
719	9.9999e-11	9.9492e-11	9.9492e-11
720	9.9999e-11	9.9491e-11	9.9491e-11
721	9.9999e-11	9.9490e-11	9.9490e-11
722	9.9999e-11	9.9489e-11	9.9489e-11
723	9.9999e-11	9.9489e-11	9.9489e-11
724	9.9999e-11	9.9488e-11	9.9488e-11
725	9.9999e-11	9.9487e-11	9.9487e-11
726	9.9999e-11	9.9487e-11	9.9487e-11
727	9.9999e-11	9.9486e-11	9.9486e-11
728	9.9999e-11	9.9485e-11	9.9485e-11
729	9.9999e-11	9.9484e-11	9.9484e-11
730	9.9999e-11	9.9484e-11	9.9484e-11
731	9.9999e-11	9.9483e-11	9.9483e-11
732	9.9999e-11	9.9482e-11	9.9482e-11
733	9.9999e-11	9.9482e-11	9.9482e-11
734	9.9999e-11	9.9481e-11	9.9481e-11
735	9.9999e-11	9.9480e-11	9.9480e-11
736	9.9999e-11	9.9479e-11	9.9479e-11
737	9.9999e-11	9.9479e-11	9.9479e-11
738	9.9999e-11	9.9478e-11	9.9478e-11
739	9.9999e-11	9.9477e-11	9.9477e-11
740	9.9999e-11	9.9477e-11	9.9477e-11
741	9.9999e-11	9.9476e-11	9.9476e-11
742	9.9999e-11	9.9475e-11	9.9475e-11
743	9.9999e-11	9.9474e-11	9.9474e-11
744	9.9999e-11	9.9474e-11	9.9474e-11
745	9.9999e-11	9.9473e-11	9.9473e-11
746	9.9999e-11	9.9472e-11	9.9472e-11
747	9.9999e-11	9.9471e-11	9.9471e-11
748	9.9999e-11	9.9471e-11	9.9471e-11
749	9.9999e-11	9.9470e-11	9.9470e-11
750	9.9999e-11	9.9469e-11	9.9469e-11
751	9.9999e-11	9.9469e-11	9.9469e-11
752	9.9999e-11	9.9468e-11	9.9468e-11
753	9.9999e-11	9.9467e-11	9.9467e-11
754	9.9999e-11	9.9466e-11	9.9466e-11
755	9.9999e-11	9.9466e-11	9.9466e-11
756	9.9999e-11	9.9465e-11	9.9465e-11

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x	$A(x)$	P_{v1}	P_{v2}
757	9.9999e-11	9.9464e-11	9.9464e-11
758	9.9999e-11	9.9464e-11	9.9464e-11
759	9.9999e-11	9.9463e-11	9.9463e-11
760	9.9999e-11	9.9462e-11	9.9462e-11
761	9.9999e-11	9.9461e-11	9.9461e-11
762	9.9999e-11	9.9461e-11	9.9461e-11
763	9.9999e-11	9.9460e-11	9.9460e-11
764	9.9999e-11	9.9459e-11	9.9459e-11
765	9.9999e-11	9.9459e-11	9.9459e-11
766	9.9999e-11	9.9458e-11	9.9458e-11
767	9.9999e-11	9.9457e-11	9.9457e-11
768	9.9999e-11	9.9456e-11	9.9456e-11
769	9.9999e-11	9.9456e-11	9.9456e-11
770	9.9999e-11	9.9455e-11	9.9455e-11
771	9.9999e-11	9.9454e-11	9.9454e-11
772	9.9999e-11	9.9454e-11	9.9454e-11
773	9.9999e-11	9.9453e-11	9.9453e-11
774	9.9999e-11	9.9452e-11	9.9452e-11
775	9.9999e-11	9.9451e-11	9.9451e-11
776	9.9999e-11	9.9451e-11	9.9451e-11
777	9.9999e-11	9.9450e-11	9.9450e-11
778	9.9999e-11	9.9449e-11	9.9449e-11
779	9.9999e-11	9.9448e-11	9.9448e-11
780	9.9999e-11	9.9448e-11	9.9448e-11
781	9.9999e-11	9.9447e-11	9.9447e-11
782	9.9999e-11	9.9446e-11	9.9446e-11
783	9.9999e-11	9.9446e-11	9.9446e-11
784	9.9999e-11	9.9445e-11	9.9445e-11
785	9.9999e-11	9.9444e-11	9.9444e-11
786	9.9999e-11	9.9443e-11	9.9443e-11
787	9.9999e-11	9.9443e-11	9.9443e-11
788	9.9999e-11	9.9442e-11	9.9442e-11
789	9.9999e-11	9.9441e-11	9.9441e-11
790	9.9999e-11	9.9441e-11	9.9441e-11
791	9.9999e-11	9.9440e-11	9.9440e-11
792	9.9999e-11	9.9439e-11	9.9439e-11
793	9.9999e-11	9.9438e-11	9.9438e-11
794	9.9999e-11	9.9438e-11	9.9438e-11
795	9.9999e-11	9.9437e-11	9.9437e-11
796	9.9999e-11	9.9436e-11	9.9436e-11

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x	$A(x)$	P_{v1}	P_{v2}
797	9.9999e-11	9.9436e-11	9.9436e-11
798	9.9999e-11	9.9435e-11	9.9435e-11
799	9.9999e-11	9.9434e-11	9.9434e-11
800	9.9999e-11	9.9433e-11	9.9433e-11
801	9.9999e-11	9.9433e-11	9.9433e-11
802	9.9999e-11	9.9432e-11	9.9432e-11
803	9.9999e-11	9.9431e-11	9.9431e-11
804	9.9999e-11	9.9430e-11	9.9430e-11
805	9.9999e-11	9.9430e-11	9.9430e-11
806	9.9999e-11	9.9429e-11	9.9429e-11
807	9.9999e-11	9.9428e-11	9.9428e-11
808	9.9999e-11	9.9428e-11	9.9428e-11
809	9.9999e-11	9.9427e-11	9.9427e-11
810	9.9999e-11	9.9426e-11	9.9426e-11
811	9.9999e-11	9.9425e-11	9.9425e-11
812	9.9999e-11	9.9425e-11	9.9425e-11
813	9.9999e-11	9.9424e-11	9.9424e-11
814	9.9999e-11	9.9423e-11	9.9423e-11
815	9.9999e-11	9.9423e-11	9.9423e-11
816	9.9999e-11	9.9422e-11	9.9422e-11
817	9.9999e-11	9.9421e-11	9.9421e-11
818	9.9999e-11	9.9420e-11	9.9420e-11
819	9.9999e-11	9.9420e-11	9.9420e-11
820	9.9999e-11	9.9419e-11	9.9419e-11
821	9.9999e-11	9.9418e-11	9.9418e-11
822	9.9999e-11	9.9417e-11	9.9417e-11
823	9.9999e-11	9.9417e-11	9.9417e-11
824	9.9999e-11	9.9416e-11	9.9416e-11
825	9.9999e-11	9.9415e-11	9.9415e-11
826	9.9999e-11	9.9415e-11	9.9415e-11
827	9.9999e-11	9.9414e-11	9.9414e-11
828	9.9999e-11	9.9413e-11	9.9413e-11
829	9.9999e-11	9.9412e-11	9.9412e-11
830	9.9999e-11	9.9412e-11	9.9412e-11
831	9.9999e-11	9.9411e-11	9.9411e-11
832	9.9999e-11	9.9410e-11	9.9410e-11
833	9.9999e-11	9.9410e-11	9.9410e-11
834	9.9999e-11	9.9409e-11	9.9409e-11
835	9.9999e-11	9.9408e-11	9.9408e-11
836	9.9999e-11	9.9407e-11	9.9407e-11

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x	$A(x)$	P_{v1}	P_{v2}
837	9.9999e-11	9.9407e-11	9.9407e-11
838	9.9999e-11	9.9406e-11	9.9406e-11
839	9.9999e-11	9.9405e-11	9.9405e-11
840	9.9999e-11	9.9404e-11	9.9404e-11
841	9.9999e-11	9.9404e-11	9.9404e-11
842	9.9999e-11	9.9403e-11	9.9403e-11
843	9.9999e-11	9.9402e-11	9.9402e-11
844	9.9999e-11	9.9402e-11	9.9402e-11
845	9.9999e-11	9.9401e-11	9.9401e-11
846	9.9999e-11	9.9400e-11	9.9400e-11
847	9.9999e-11	9.9399e-11	9.9399e-11
848	9.9999e-11	9.9399e-11	9.9399e-11
849	9.9999e-11	9.9398e-11	9.9398e-11
850	9.9999e-11	9.9397e-11	9.9397e-11
851	9.9999e-11	9.9397e-11	9.9397e-11
852	9.9999e-11	9.9396e-11	9.9396e-11
853	9.9999e-11	9.9395e-11	9.9395e-11
854	9.9999e-11	9.9394e-11	9.9394e-11
855	9.9999e-11	9.9394e-11	9.9394e-11
856	9.9999e-11	9.9393e-11	9.9393e-11
857	9.9999e-11	9.9392e-11	9.9392e-11
858	9.9999e-11	9.9391e-11	9.9391e-11
859	9.9999e-11	9.9391e-11	9.9391e-11
860	9.9999e-11	9.9390e-11	9.9390e-11
861	9.9999e-11	9.9389e-11	9.9389e-11
862	9.9999e-11	9.9389e-11	9.9389e-11
863	9.9999e-11	9.9388e-11	9.9388e-11
864	9.9999e-11	9.9387e-11	9.9387e-11
865	9.9999e-11	9.9386e-11	9.9386e-11
866	9.9999e-11	9.9386e-11	9.9386e-11
867	9.9999e-11	9.9385e-11	9.9385e-11
868	9.9999e-11	9.9384e-11	9.9384e-11
869	9.9999e-11	9.9384e-11	9.9384e-11
870	9.9999e-11	9.9383e-11	9.9383e-11
871	9.9999e-11	9.9382e-11	9.9382e-11
872	9.9999e-11	9.9381e-11	9.9381e-11
873	9.9999e-11	9.9381e-11	9.9381e-11
874	9.9999e-11	9.9380e-11	9.9380e-11
875	9.9999e-11	9.9379e-11	9.9379e-11
876	9.9999e-11	9.9378e-11	9.9378e-11

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x	$A(x)$	P_{v1}	P_{v2}
877	9.9999e-11	9.9378e-11	9.9378e-11
878	9.9999e-11	9.9377e-11	9.9377e-11
879	9.9999e-11	9.9376e-11	9.9376e-11
880	9.9999e-11	9.9376e-11	9.9376e-11
881	9.9999e-11	9.9375e-11	9.9375e-11
882	9.9999e-11	9.9374e-11	9.9374e-11
883	9.9999e-11	9.9373e-11	9.9373e-11
884	9.9999e-11	9.9373e-11	9.9373e-11
885	9.9999e-11	9.9372e-11	9.9372e-11
886	9.9999e-11	9.9371e-11	9.9371e-11
887	9.9999e-11	9.9371e-11	9.9371e-11
888	9.9999e-11	9.9370e-11	9.9370e-11
889	9.9999e-11	9.9369e-11	9.9369e-11
890	9.9999e-11	9.9368e-11	9.9368e-11
891	9.9999e-11	9.9368e-11	9.9368e-11
892	9.9999e-11	9.9367e-11	9.9367e-11
893	9.9999e-11	9.9366e-11	9.9366e-11
894	9.9999e-11	9.9365e-11	9.9365e-11
895	9.9999e-11	9.9365e-11	9.9365e-11
896	9.9999e-11	9.9364e-11	9.9364e-11
897	9.9999e-11	9.9363e-11	9.9363e-11
898	9.9999e-11	9.9363e-11	9.9363e-11
899	9.9999e-11	9.9362e-11	9.9362e-11
900	9.9999e-11	9.9361e-11	9.9361e-11
901	9.9999e-11	9.9360e-11	9.9360e-11
902	9.9999e-11	9.9360e-11	9.9360e-11
903	9.9999e-11	9.9359e-11	9.9359e-11
904	9.9999e-11	9.9358e-11	9.9358e-11
905	9.9999e-11	9.9358e-11	9.9358e-11
906	9.9999e-11	9.9357e-11	9.9357e-11
907	9.9999e-11	9.9356e-11	9.9356e-11
908	9.9999e-11	9.9355e-11	9.9355e-11
909	9.9999e-11	9.9355e-11	9.9355e-11
910	9.9999e-11	9.9354e-11	9.9354e-11
911	9.9999e-11	9.9353e-11	9.9353e-11
912	9.9999e-11	9.9352e-11	9.9352e-11
913	9.9999e-11	9.9352e-11	9.9352e-11
914	9.9999e-11	9.9351e-11	9.9351e-11
915	9.9999e-11	9.9350e-11	9.9350e-11
916	9.9999e-11	9.9350e-11	9.9350e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
917	9.9999e-11	9.9349e-11	9.9349e-11
918	9.9999e-11	9.9348e-11	9.9348e-11
919	9.9999e-11	9.9347e-11	9.9347e-11
920	9.9999e-11	9.9347e-11	9.9347e-11
921	9.9999e-11	9.9346e-11	9.9346e-11
922	9.9999e-11	9.9345e-11	9.9345e-11
923	9.9999e-11	9.9344e-11	9.9344e-11
924	9.9999e-11	9.9344e-11	9.9344e-11
925	9.9999e-11	9.9343e-11	9.9343e-11
926	9.9999e-11	9.9342e-11	9.9342e-11
927	9.9999e-11	9.9342e-11	9.9342e-11
928	9.9999e-11	9.9341e-11	9.9341e-11
929	9.9999e-11	9.9340e-11	9.9340e-11
930	9.9999e-11	9.9339e-11	9.9339e-11
931	9.9999e-11	9.9339e-11	9.9339e-11
932	9.9999e-11	9.9338e-11	9.9338e-11
933	9.9999e-11	9.9337e-11	9.9337e-11
934	9.9999e-11	9.9336e-11	9.9336e-11
935	9.9999e-11	9.9336e-11	9.9336e-11
936	9.9999e-11	9.9335e-11	9.9335e-11
937	9.9999e-11	9.9334e-11	9.9334e-11
938	9.9999e-11	9.9334e-11	9.9334e-11
939	9.9999e-11	9.9333e-11	9.9333e-11
940	9.9999e-11	9.9332e-11	9.9332e-11
941	9.9999e-11	9.9331e-11	9.9331e-11
942	9.9999e-11	9.9331e-11	9.9331e-11
943	9.9999e-11	9.9330e-11	9.9330e-11
944	9.9999e-11	9.9329e-11	9.9329e-11
945	9.9999e-11	9.9329e-11	9.9329e-11
946	9.9999e-11	9.9328e-11	9.9328e-11
947	9.9999e-11	9.9327e-11	9.9327e-11
948	9.9999e-11	9.9326e-11	9.9326e-11
949	9.9999e-11	9.9326e-11	9.9326e-11
950	9.9999e-11	9.9325e-11	9.9325e-11
951	9.9999e-11	9.9324e-11	9.9324e-11
952	9.9999e-11	9.9323e-11	9.9323e-11
953	9.9999e-11	9.9323e-11	9.9323e-11
954	9.9999e-11	9.9322e-11	9.9322e-11
955	9.9999e-11	9.9321e-11	9.9321e-11
956	9.9999e-11	9.9321e-11	9.9321e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
957	9.9999e-11	9.9320e-11	9.9320e-11
958	9.9999e-11	9.9319e-11	9.9319e-11
959	9.9999e-11	9.9318e-11	9.9318e-11
960	9.9999e-11	9.9318e-11	9.9318e-11
961	9.9999e-11	9.9317e-11	9.9317e-11
962	9.9999e-11	9.9316e-11	9.9316e-11
963	9.9999e-11	9.9315e-11	9.9315e-11
964	9.9999e-11	9.9315e-11	9.9315e-11
965	9.9999e-11	9.9314e-11	9.9314e-11
966	9.9999e-11	9.9313e-11	9.9313e-11
967	9.9999e-11	9.9313e-11	9.9313e-11
968	9.9999e-11	9.9312e-11	9.9312e-11
969	9.9999e-11	9.9311e-11	9.9311e-11
970	9.9999e-11	9.9310e-11	9.9310e-11
971	9.9999e-11	9.9310e-11	9.9310e-11
972	9.9999e-11	9.9309e-11	9.9309e-11
973	9.9999e-11	9.9308e-11	9.9308e-11
974	9.9999e-11	9.9307e-11	9.9307e-11
975	9.9999e-11	9.9307e-11	9.9307e-11
976	9.9999e-11	9.9306e-11	9.9306e-11
977	9.9999e-11	9.9305e-11	9.9305e-11
978	9.9999e-11	9.9305e-11	9.9305e-11
979	9.9999e-11	9.9304e-11	9.9304e-11
980	9.9999e-11	9.9303e-11	9.9303e-11
981	9.9999e-11	9.9302e-11	9.9302e-11
982	9.9999e-11	9.9302e-11	9.9302e-11
983	9.9999e-11	9.9301e-11	9.9301e-11
984	9.9999e-11	9.9300e-11	9.9300e-11
985	9.9999e-11	9.9299e-11	9.9299e-11
986	9.9999e-11	9.9299e-11	9.9299e-11
987	9.9999e-11	9.9298e-11	9.9298e-11
988	9.9999e-11	9.9297e-11	9.9297e-11
989	9.9999e-11	9.9297e-11	9.9297e-11
990	9.9999e-11	9.9296e-11	9.9296e-11
991	9.9999e-11	9.9295e-11	9.9295e-11
992	9.9999e-11	9.9294e-11	9.9294e-11
993	9.9999e-11	9.9294e-11	9.9294e-11
994	9.9999e-11	9.9293e-11	9.9293e-11
995	9.9999e-11	9.9292e-11	9.9292e-11
996	9.9999e-11	9.9291e-11	9.9291e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
997	9.9999e-11	9.9291e-11	9.9291e-11
998	9.9999e-11	9.9290e-11	9.9290e-11
999	9.9999e-11	9.9289e-11	9.9289e-11
1000	9.9999e-11	9.9289e-11	9.9289e-11

Table B.7.20: Output for Problem 7.3.4-DIST-C2

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	6.9314e-11	6.9304e-11	6.9304e-11
2	6.9312e-11	6.9313e-11	6.9313e-11
3	6.9311e-11	6.9312e-11	6.9312e-11
4	6.9310e-11	6.9310e-11	6.9310e-11
5	6.9309e-11	6.9309e-11	6.9309e-11
6	6.9308e-11	6.9308e-11	6.9308e-11
7	6.9307e-11	6.9307e-11	6.9307e-11
8	6.9305e-11	6.9306e-11	6.9306e-11
9	6.9304e-11	6.9304e-11	6.9304e-11
10	6.9303e-11	6.9303e-11	6.9303e-11
11	6.9302e-11	6.9302e-11	6.9302e-11
12	6.9301e-11	6.9301e-11	6.9301e-11
13	6.9299e-11	6.9300e-11	6.9300e-11
14	6.9298e-11	6.9299e-11	6.9299e-11
15	6.9297e-11	6.9297e-11	6.9297e-11
16	6.9296e-11	6.9296e-11	6.9296e-11
17	6.9295e-11	6.9295e-11	6.9295e-11
18	6.9294e-11	6.9294e-11	6.9294e-11
19	6.9292e-11	6.9293e-11	6.9293e-11
20	6.9291e-11	6.9292e-11	6.9292e-11
21	6.9290e-11	6.9290e-11	6.9290e-11
22	6.9289e-11	6.9289e-11	6.9289e-11
23	6.9288e-11	6.9288e-11	6.9288e-11
24	6.9287e-11	6.9287e-11	6.9287e-11
25	6.9285e-11	6.9286e-11	6.9286e-11
26	6.9284e-11	6.9285e-11	6.9285e-11
27	6.9283e-11	6.9283e-11	6.9283e-11
28	6.9282e-11	6.9282e-11	6.9282e-11
29	6.9281e-11	6.9281e-11	6.9281e-11
30	6.9280e-11	6.9280e-11	6.9280e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
31	6.9278e-11	6.9279e-11	6.9279e-11
32	6.9277e-11	6.9277e-11	6.9277e-11
33	6.9276e-11	6.9276e-11	6.9276e-11
34	6.9275e-11	6.9275e-11	6.9275e-11
35	6.9274e-11	6.9274e-11	6.9274e-11
36	6.9272e-11	6.9273e-11	6.9273e-11
37	6.9271e-11	6.9272e-11	6.9272e-11
38	6.9270e-11	6.9270e-11	6.9270e-11
39	6.9269e-11	6.9269e-11	6.9269e-11
40	6.9268e-11	6.9268e-11	6.9268e-11
41	6.9267e-11	6.9267e-11	6.9267e-11
42	6.9265e-11	6.9266e-11	6.9266e-11
43	6.9264e-11	6.9265e-11	6.9265e-11
44	6.9263e-11	6.9263e-11	6.9263e-11
45	6.9262e-11	6.9262e-11	6.9262e-11
46	6.9261e-11	6.9261e-11	6.9261e-11
47	6.9260e-11	6.9260e-11	6.9260e-11
48	6.9258e-11	6.9259e-11	6.9259e-11
49	6.9257e-11	6.9258e-11	6.9258e-11
50	6.9256e-11	6.9256e-11	6.9256e-11
51	6.9255e-11	6.9255e-11	6.9255e-11
52	6.9254e-11	6.9254e-11	6.9254e-11
53	6.9253e-11	6.9253e-11	6.9253e-11
54	6.9251e-11	6.9252e-11	6.9252e-11
55	6.9250e-11	6.9250e-11	6.9250e-11
56	6.9249e-11	6.9249e-11	6.9249e-11
57	6.9248e-11	6.9248e-11	6.9248e-11
58	6.9247e-11	6.9247e-11	6.9247e-11
59	6.9245e-11	6.9246e-11	6.9246e-11
60	6.9244e-11	6.9245e-11	6.9245e-11
61	6.9243e-11	6.9243e-11	6.9243e-11
62	6.9242e-11	6.9242e-11	6.9242e-11
63	6.9241e-11	6.9241e-11	6.9241e-11
64	6.9240e-11	6.9240e-11	6.9240e-11
65	6.9238e-11	6.9239e-11	6.9239e-11
66	6.9237e-11	6.9238e-11	6.9238e-11
67	6.9236e-11	6.9236e-11	6.9236e-11
68	6.9235e-11	6.9235e-11	6.9235e-11
69	6.9234e-11	6.9234e-11	6.9234e-11
70	6.9233e-11	6.9233e-11	6.9233e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
71	6.9231e-11	6.9232e-11	6.9232e-11
72	6.9230e-11	6.9231e-11	6.9231e-11
73	6.9229e-11	6.9229e-11	6.9229e-11
74	6.9228e-11	6.9228e-11	6.9228e-11
75	6.9227e-11	6.9227e-11	6.9227e-11
76	6.9226e-11	6.9226e-11	6.9226e-11
77	6.9224e-11	6.9225e-11	6.9225e-11
78	6.9223e-11	6.9224e-11	6.9224e-11
79	6.9222e-11	6.9222e-11	6.9222e-11
80	6.9221e-11	6.9221e-11	6.9221e-11
81	6.9220e-11	6.9220e-11	6.9220e-11
82	6.9219e-11	6.9219e-11	6.9219e-11
83	6.9217e-11	6.9218e-11	6.9218e-11
84	6.9216e-11	6.9216e-11	6.9216e-11
85	6.9215e-11	6.9215e-11	6.9215e-11
86	6.9214e-11	6.9214e-11	6.9214e-11
87	6.9213e-11	6.9213e-11	6.9213e-11
88	6.9211e-11	6.9212e-11	6.9212e-11
89	6.9210e-11	6.9211e-11	6.9211e-11
90	6.9209e-11	6.9209e-11	6.9209e-11
91	6.9208e-11	6.9208e-11	6.9208e-11
92	6.9207e-11	6.9207e-11	6.9207e-11
93	6.9206e-11	6.9206e-11	6.9206e-11
94	6.9204e-11	6.9205e-11	6.9205e-11
95	6.9203e-11	6.9204e-11	6.9204e-11
96	6.9202e-11	6.9202e-11	6.9202e-11
97	6.9201e-11	6.9201e-11	6.9201e-11
98	6.9200e-11	6.9200e-11	6.9200e-11
99	6.9199e-11	6.9199e-11	6.9199e-11
100	6.9197e-11	6.9198e-11	6.9198e-11
101	6.9196e-11	6.9197e-11	6.9197e-11
102	6.9195e-11	6.9195e-11	6.9195e-11
103	6.9194e-11	6.9194e-11	6.9194e-11
104	6.9193e-11	6.9193e-11	6.9193e-11
105	6.9192e-11	6.9192e-11	6.9192e-11
106	6.9190e-11	6.9191e-11	6.9191e-11
107	6.9189e-11	6.9190e-11	6.9190e-11
108	6.9188e-11	6.9188e-11	6.9188e-11
109	6.9187e-11	6.9187e-11	6.9187e-11
110	6.9186e-11	6.9186e-11	6.9186e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
111	6.9184e-11	6.9185e-11	6.9185e-11
112	6.9183e-11	6.9184e-11	6.9184e-11
113	6.9182e-11	6.9182e-11	6.9182e-11
114	6.9181e-11	6.9181e-11	6.9181e-11
115	6.9180e-11	6.9180e-11	6.9180e-11
116	6.9179e-11	6.9179e-11	6.9179e-11
117	6.9177e-11	6.9178e-11	6.9178e-11
118	6.9176e-11	6.9177e-11	6.9177e-11
119	6.9175e-11	6.9175e-11	6.9175e-11
120	6.9174e-11	6.9174e-11	6.9174e-11
121	6.9173e-11	6.9173e-11	6.9173e-11
122	6.9172e-11	6.9172e-11	6.9172e-11
123	6.9170e-11	6.9171e-11	6.9171e-11
124	6.9169e-11	6.9170e-11	6.9170e-11
125	6.9168e-11	6.9168e-11	6.9168e-11
126	6.9167e-11	6.9167e-11	6.9167e-11
127	6.9166e-11	6.9166e-11	6.9166e-11
128	6.9165e-11	6.9165e-11	6.9165e-11
129	6.9163e-11	6.9164e-11	6.9164e-11
130	6.9162e-11	6.9163e-11	6.9163e-11
131	6.9161e-11	6.9161e-11	6.9161e-11
132	6.9160e-11	6.9160e-11	6.9160e-11
133	6.9159e-11	6.9159e-11	6.9159e-11
134	6.9158e-11	6.9158e-11	6.9158e-11
135	6.9156e-11	6.9157e-11	6.9157e-11
136	6.9155e-11	6.9156e-11	6.9156e-11
137	6.9154e-11	6.9154e-11	6.9154e-11
138	6.9153e-11	6.9153e-11	6.9153e-11
139	6.9152e-11	6.9152e-11	6.9152e-11
140	6.9150e-11	6.9151e-11	6.9151e-11
141	6.9149e-11	6.9150e-11	6.9150e-11
142	6.9148e-11	6.9149e-11	6.9149e-11
143	6.9147e-11	6.9147e-11	6.9147e-11
144	6.9146e-11	6.9146e-11	6.9146e-11
145	6.9145e-11	6.9145e-11	6.9145e-11
146	6.9143e-11	6.9144e-11	6.9144e-11
147	6.9142e-11	6.9143e-11	6.9143e-11
148	6.9141e-11	6.9141e-11	6.9141e-11
149	6.9140e-11	6.9140e-11	6.9140e-11
150	6.9139e-11	6.9139e-11	6.9139e-11

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x	$A(x)$	P_{v1}	P_{v2}
151	6.9138e-11	6.9138e-11	6.9138e-11
152	6.9136e-11	6.9137e-11	6.9137e-11
153	6.9135e-11	6.9136e-11	6.9136e-11
154	6.9134e-11	6.9134e-11	6.9134e-11
155	6.9133e-11	6.9133e-11	6.9133e-11
156	6.9132e-11	6.9132e-11	6.9132e-11
157	6.9131e-11	6.9131e-11	6.9131e-11
158	6.9129e-11	6.9130e-11	6.9130e-11
159	6.9128e-11	6.9129e-11	6.9129e-11
160	6.9127e-11	6.9127e-11	6.9127e-11
161	6.9126e-11	6.9126e-11	6.9126e-11
162	6.9125e-11	6.9125e-11	6.9125e-11
163	6.9124e-11	6.9124e-11	6.9124e-11
164	6.9122e-11	6.9123e-11	6.9123e-11
165	6.9121e-11	6.9122e-11	6.9122e-11
166	6.9120e-11	6.9120e-11	6.9120e-11
167	6.9119e-11	6.9119e-11	6.9119e-11
168	6.9118e-11	6.9118e-11	6.9118e-11
169	6.9116e-11	6.9117e-11	6.9117e-11
170	6.9115e-11	6.9116e-11	6.9116e-11
171	6.9114e-11	6.9115e-11	6.9115e-11
172	6.9113e-11	6.9113e-11	6.9113e-11
173	6.9112e-11	6.9112e-11	6.9112e-11
174	6.9111e-11	6.9111e-11	6.9111e-11
175	6.9109e-11	6.9110e-11	6.9110e-11
176	6.9108e-11	6.9109e-11	6.9109e-11
177	6.9107e-11	6.9107e-11	6.9107e-11
178	6.9106e-11	6.9106e-11	6.9106e-11
179	6.9105e-11	6.9105e-11	6.9105e-11
180	6.9104e-11	6.9104e-11	6.9104e-11
181	6.9102e-11	6.9103e-11	6.9103e-11
182	6.9101e-11	6.9102e-11	6.9102e-11
183	6.9100e-11	6.9100e-11	6.9100e-11
184	6.9099e-11	6.9099e-11	6.9099e-11
185	6.9098e-11	6.9098e-11	6.9098e-11
186	6.9097e-11	6.9097e-11	6.9097e-11
187	6.9095e-11	6.9096e-11	6.9096e-11
188	6.9094e-11	6.9095e-11	6.9095e-11
189	6.9093e-11	6.9093e-11	6.9093e-11
190	6.9092e-11	6.9092e-11	6.9092e-11

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x	$A(x)$	P_{v1}	P_{v2}
191	6.9091e-11	6.9091e-11	6.9091e-11
192	6.9090e-11	6.9090e-11	6.9090e-11
193	6.9088e-11	6.9089e-11	6.9089e-11
194	6.9087e-11	6.9088e-11	6.9088e-11
195	6.9086e-11	6.9086e-11	6.9086e-11
196	6.9085e-11	6.9085e-11	6.9085e-11
197	6.9084e-11	6.9084e-11	6.9084e-11
198	6.9083e-11	6.9083e-11	6.9083e-11
199	6.9081e-11	6.9082e-11	6.9082e-11
200	6.9080e-11	6.9081e-11	6.9081e-11
201	6.9079e-11	6.9079e-11	6.9079e-11
202	6.9078e-11	6.9078e-11	6.9078e-11
203	6.9077e-11	6.9077e-11	6.9077e-11
204	6.9075e-11	6.9076e-11	6.9076e-11
205	6.9074e-11	6.9075e-11	6.9075e-11
206	6.9073e-11	6.9074e-11	6.9074e-11
207	6.9072e-11	6.9072e-11	6.9072e-11
208	6.9071e-11	6.9071e-11	6.9071e-11
209	6.9070e-11	6.9070e-11	6.9070e-11
210	6.9068e-11	6.9069e-11	6.9069e-11
211	6.9067e-11	6.9068e-11	6.9068e-11
212	6.9066e-11	6.9067e-11	6.9067e-11
213	6.9065e-11	6.9065e-11	6.9065e-11
214	6.9064e-11	6.9064e-11	6.9064e-11
215	6.9063e-11	6.9063e-11	6.9063e-11
216	6.9061e-11	6.9062e-11	6.9062e-11
217	6.9060e-11	6.9061e-11	6.9061e-11
218	6.9059e-11	6.9059e-11	6.9059e-11
219	6.9058e-11	6.9058e-11	6.9058e-11
220	6.9057e-11	6.9057e-11	6.9057e-11
221	6.9056e-11	6.9056e-11	6.9056e-11
222	6.9054e-11	6.9055e-11	6.9055e-11
223	6.9053e-11	6.9054e-11	6.9054e-11
224	6.9052e-11	6.9052e-11	6.9052e-11
225	6.9051e-11	6.9051e-11	6.9051e-11
226	6.9050e-11	6.9050e-11	6.9050e-11
227	6.9049e-11	6.9049e-11	6.9049e-11
228	6.9047e-11	6.9048e-11	6.9048e-11
229	6.9046e-11	6.9047e-11	6.9047e-11
230	6.9045e-11	6.9045e-11	6.9045e-11

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x	$A(x)$	P_{v1}	P_{v2}
231	6.9044e-11	6.9044e-11	6.9044e-11
232	6.9043e-11	6.9043e-11	6.9043e-11
233	6.9041e-11	6.9042e-11	6.9042e-11
234	6.9040e-11	6.9041e-11	6.9041e-11
235	6.9039e-11	6.9040e-11	6.9040e-11
236	6.9038e-11	6.9038e-11	6.9038e-11
237	6.9037e-11	6.9037e-11	6.9037e-11
238	6.9036e-11	6.9036e-11	6.9036e-11
239	6.9034e-11	6.9035e-11	6.9035e-11
240	6.9033e-11	6.9034e-11	6.9034e-11
241	6.9032e-11	6.9033e-11	6.9033e-11
242	6.9031e-11	6.9031e-11	6.9031e-11
243	6.9030e-11	6.9030e-11	6.9030e-11
244	6.9029e-11	6.9029e-11	6.9029e-11
245	6.9027e-11	6.9028e-11	6.9028e-11
246	6.9026e-11	6.9027e-11	6.9027e-11
247	6.9025e-11	6.9026e-11	6.9026e-11
248	6.9024e-11	6.9024e-11	6.9024e-11
249	6.9023e-11	6.9023e-11	6.9023e-11
250	6.9022e-11	6.9022e-11	6.9022e-11
251	6.9020e-11	6.9021e-11	6.9021e-11
252	6.9019e-11	6.9020e-11	6.9020e-11
253	6.9018e-11	6.9019e-11	6.9019e-11
254	6.9017e-11	6.9017e-11	6.9017e-11
255	6.9016e-11	6.9016e-11	6.9016e-11
256	6.9015e-11	6.9015e-11	6.9015e-11
257	6.9013e-11	6.9014e-11	6.9014e-11
258	6.9012e-11	6.9013e-11	6.9013e-11
259	6.9011e-11	6.9011e-11	6.9011e-11
260	6.9010e-11	6.9010e-11	6.9010e-11
261	6.9009e-11	6.9009e-11	6.9009e-11
262	6.9008e-11	6.9008e-11	6.9008e-11
263	6.9006e-11	6.9007e-11	6.9007e-11
264	6.9005e-11	6.9006e-11	6.9006e-11
265	6.9004e-11	6.9004e-11	6.9004e-11
266	6.9003e-11	6.9003e-11	6.9003e-11
267	6.9002e-11	6.9002e-11	6.9002e-11
268	6.9000e-11	6.9001e-11	6.9001e-11
269	6.8999e-11	6.9000e-11	6.9000e-11
270	6.8998e-11	6.8999e-11	6.8999e-11

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x	$A(x)$	P_{v1}	P_{v2}
271	6.8997e-11	6.8997e-11	6.8997e-11
272	6.8996e-11	6.8996e-11	6.8996e-11
273	6.8995e-11	6.8995e-11	6.8995e-11
274	6.8993e-11	6.8994e-11	6.8994e-11
275	6.8992e-11	6.8993e-11	6.8993e-11
276	6.8991e-11	6.8992e-11	6.8992e-11
277	6.8990e-11	6.8990e-11	6.8990e-11
278	6.8989e-11	6.8989e-11	6.8989e-11
279	6.8988e-11	6.8988e-11	6.8988e-11
280	6.8986e-11	6.8987e-11	6.8987e-11
281	6.8985e-11	6.8986e-11	6.8986e-11
282	6.8984e-11	6.8985e-11	6.8985e-11
283	6.8983e-11	6.8983e-11	6.8983e-11
284	6.8982e-11	6.8982e-11	6.8982e-11
285	6.8981e-11	6.8981e-11	6.8981e-11
286	6.8979e-11	6.8980e-11	6.8980e-11
287	6.8978e-11	6.8979e-11	6.8979e-11
288	6.8977e-11	6.8978e-11	6.8978e-11
289	6.8976e-11	6.8976e-11	6.8976e-11
290	6.8975e-11	6.8975e-11	6.8975e-11
291	6.8974e-11	6.8974e-11	6.8974e-11
292	6.8972e-11	6.8973e-11	6.8973e-11
293	6.8971e-11	6.8972e-11	6.8972e-11
294	6.8970e-11	6.8971e-11	6.8971e-11
295	6.8969e-11	6.8969e-11	6.8969e-11
296	6.8968e-11	6.8968e-11	6.8968e-11
297	6.8967e-11	6.8967e-11	6.8967e-11
298	6.8965e-11	6.8966e-11	6.8966e-11
299	6.8964e-11	6.8965e-11	6.8965e-11
300	6.8963e-11	6.8964e-11	6.8964e-11
301	6.8962e-11	6.8962e-11	6.8962e-11
302	6.8961e-11	6.8961e-11	6.8961e-11
303	6.8959e-11	6.8960e-11	6.8960e-11
304	6.8958e-11	6.8959e-11	6.8959e-11
305	6.8957e-11	6.8958e-11	6.8958e-11
306	6.8956e-11	6.8957e-11	6.8957e-11
307	6.8955e-11	6.8955e-11	6.8955e-11
308	6.8954e-11	6.8954e-11	6.8954e-11
309	6.8952e-11	6.8953e-11	6.8953e-11
310	6.8951e-11	6.8952e-11	6.8952e-11

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x	$A(x)$	P_{v1}	P_{v2}
311	6.8950e-11	6.8951e-11	6.8951e-11
312	6.8949e-11	6.8949e-11	6.8949e-11
313	6.8948e-11	6.8948e-11	6.8948e-11
314	6.8947e-11	6.8947e-11	6.8947e-11
315	6.8945e-11	6.8946e-11	6.8946e-11
316	6.8944e-11	6.8945e-11	6.8945e-11
317	6.8943e-11	6.8944e-11	6.8944e-11
318	6.8942e-11	6.8942e-11	6.8942e-11
319	6.8941e-11	6.8941e-11	6.8941e-11
320	6.8940e-11	6.8940e-11	6.8940e-11
321	6.8938e-11	6.8939e-11	6.8939e-11
322	6.8937e-11	6.8938e-11	6.8938e-11
323	6.8936e-11	6.8937e-11	6.8937e-11
324	6.8935e-11	6.8935e-11	6.8935e-11
325	6.8934e-11	6.8934e-11	6.8934e-11
326	6.8933e-11	6.8933e-11	6.8933e-11
327	6.8931e-11	6.8932e-11	6.8932e-11
328	6.8930e-11	6.8931e-11	6.8931e-11
329	6.8929e-11	6.8930e-11	6.8930e-11
330	6.8928e-11	6.8928e-11	6.8928e-11
331	6.8927e-11	6.8927e-11	6.8927e-11
332	6.8926e-11	6.8926e-11	6.8926e-11
333	6.8924e-11	6.8925e-11	6.8925e-11
334	6.8923e-11	6.8924e-11	6.8924e-11
335	6.8922e-11	6.8923e-11	6.8923e-11
336	6.8921e-11	6.8921e-11	6.8921e-11
337	6.8920e-11	6.8920e-11	6.8920e-11
338	6.8919e-11	6.8919e-11	6.8919e-11
339	6.8917e-11	6.8918e-11	6.8918e-11
340	6.8916e-11	6.8917e-11	6.8917e-11
341	6.8915e-11	6.8916e-11	6.8916e-11
342	6.8914e-11	6.8914e-11	6.8914e-11
343	6.8913e-11	6.8913e-11	6.8913e-11
344	6.8911e-11	6.8912e-11	6.8912e-11
345	6.8910e-11	6.8911e-11	6.8911e-11
346	6.8909e-11	6.8910e-11	6.8910e-11
347	6.8908e-11	6.8909e-11	6.8909e-11
348	6.8907e-11	6.8907e-11	6.8907e-11
349	6.8906e-11	6.8906e-11	6.8906e-11
350	6.8904e-11	6.8905e-11	6.8905e-11

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x	$A(x)$	P_{v1}	P_{v2}
351	6.8903e-11	6.8904e-11	6.8904e-11
352	6.8902e-11	6.8903e-11	6.8903e-11
353	6.8901e-11	6.8902e-11	6.8902e-11
354	6.8900e-11	6.8900e-11	6.8900e-11
355	6.8899e-11	6.8899e-11	6.8899e-11
356	6.8897e-11	6.8898e-11	6.8898e-11
357	6.8896e-11	6.8897e-11	6.8897e-11
358	6.8895e-11	6.8896e-11	6.8896e-11
359	6.8894e-11	6.8895e-11	6.8895e-11
360	6.8893e-11	6.8893e-11	6.8893e-11
361	6.8892e-11	6.8892e-11	6.8892e-11
362	6.8890e-11	6.8891e-11	6.8891e-11
363	6.8889e-11	6.8890e-11	6.8890e-11
364	6.8888e-11	6.8889e-11	6.8889e-11
365	6.8887e-11	6.8888e-11	6.8888e-11
366	6.8886e-11	6.8886e-11	6.8886e-11
367	6.8885e-11	6.8885e-11	6.8885e-11
368	6.8883e-11	6.8884e-11	6.8884e-11
369	6.8882e-11	6.8883e-11	6.8883e-11
370	6.8881e-11	6.8882e-11	6.8882e-11
371	6.8880e-11	6.8881e-11	6.8881e-11
372	6.8879e-11	6.8879e-11	6.8879e-11
373	6.8878e-11	6.8878e-11	6.8878e-11
374	6.8876e-11	6.8877e-11	6.8877e-11
375	6.8875e-11	6.8876e-11	6.8876e-11
376	6.8874e-11	6.8875e-11	6.8875e-11
377	6.8873e-11	6.8873e-11	6.8873e-11
378	6.8872e-11	6.8872e-11	6.8872e-11
379	6.8871e-11	6.8871e-11	6.8871e-11
380	6.8869e-11	6.8870e-11	6.8870e-11
381	6.8868e-11	6.8869e-11	6.8869e-11
382	6.8867e-11	6.8868e-11	6.8868e-11
383	6.8866e-11	6.8866e-11	6.8866e-11
384	6.8865e-11	6.8865e-11	6.8865e-11
385	6.8863e-11	6.8864e-11	6.8864e-11
386	6.8862e-11	6.8863e-11	6.8863e-11
387	6.8861e-11	6.8862e-11	6.8862e-11
388	6.8860e-11	6.8861e-11	6.8861e-11
389	6.8859e-11	6.8859e-11	6.8859e-11
390	6.8858e-11	6.8858e-11	6.8858e-11

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x	$A(x)$	P_{v1}	P_{v2}
391	6.8856e-11	6.8857e-11	6.8857e-11
392	6.8855e-11	6.8856e-11	6.8856e-11
393	6.8854e-11	6.8855e-11	6.8855e-11
394	6.8853e-11	6.8854e-11	6.8854e-11
395	6.8852e-11	6.8852e-11	6.8852e-11
396	6.8851e-11	6.8851e-11	6.8851e-11
397	6.8849e-11	6.8850e-11	6.8850e-11
398	6.8848e-11	6.8849e-11	6.8849e-11
399	6.8847e-11	6.8848e-11	6.8848e-11
400	6.8846e-11	6.8847e-11	6.8847e-11
401	6.8845e-11	6.8845e-11	6.8845e-11
402	6.8844e-11	6.8844e-11	6.8844e-11
403	6.8842e-11	6.8843e-11	6.8843e-11
404	6.8841e-11	6.8842e-11	6.8842e-11
405	6.8840e-11	6.8841e-11	6.8841e-11
406	6.8839e-11	6.8840e-11	6.8840e-11
407	6.8838e-11	6.8838e-11	6.8838e-11
408	6.8837e-11	6.8837e-11	6.8837e-11
409	6.8835e-11	6.8836e-11	6.8836e-11
410	6.8834e-11	6.8835e-11	6.8835e-11
411	6.8833e-11	6.8834e-11	6.8834e-11
412	6.8832e-11	6.8833e-11	6.8833e-11
413	6.8831e-11	6.8831e-11	6.8831e-11
414	6.8830e-11	6.8830e-11	6.8830e-11
415	6.8828e-11	6.8829e-11	6.8829e-11
416	6.8827e-11	6.8828e-11	6.8828e-11
417	6.8826e-11	6.8827e-11	6.8827e-11
418	6.8825e-11	6.8826e-11	6.8826e-11
419	6.8824e-11	6.8824e-11	6.8824e-11
420	6.8823e-11	6.8823e-11	6.8823e-11
421	6.8821e-11	6.8822e-11	6.8822e-11
422	6.8820e-11	6.8821e-11	6.8821e-11
423	6.8819e-11	6.8820e-11	6.8820e-11
424	6.8818e-11	6.8819e-11	6.8819e-11
425	6.8817e-11	6.8817e-11	6.8817e-11
426	6.8816e-11	6.8816e-11	6.8816e-11
427	6.8814e-11	6.8815e-11	6.8815e-11
428	6.8813e-11	6.8814e-11	6.8814e-11
429	6.8812e-11	6.8813e-11	6.8813e-11
430	6.8811e-11	6.8812e-11	6.8812e-11

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x	$A(x)$	P_{v1}	P_{v2}
431	6.8810e-11	6.8810e-11	6.8810e-11
432	6.8808e-11	6.8809e-11	6.8809e-11
433	6.8807e-11	6.8808e-11	6.8808e-11
434	6.8806e-11	6.8807e-11	6.8807e-11
435	6.8805e-11	6.8806e-11	6.8806e-11
436	6.8804e-11	6.8805e-11	6.8805e-11
437	6.8803e-11	6.8803e-11	6.8803e-11
438	6.8801e-11	6.8802e-11	6.8802e-11
439	6.8800e-11	6.8801e-11	6.8801e-11
440	6.8799e-11	6.8800e-11	6.8800e-11
441	6.8798e-11	6.8799e-11	6.8799e-11
442	6.8797e-11	6.8798e-11	6.8798e-11
443	6.8796e-11	6.8796e-11	6.8796e-11
444	6.8794e-11	6.8795e-11	6.8795e-11
445	6.8793e-11	6.8794e-11	6.8794e-11
446	6.8792e-11	6.8793e-11	6.8793e-11
447	6.8791e-11	6.8792e-11	6.8792e-11
448	6.8790e-11	6.8791e-11	6.8791e-11
449	6.8789e-11	6.8789e-11	6.8789e-11
450	6.8787e-11	6.8788e-11	6.8788e-11
451	6.8786e-11	6.8787e-11	6.8787e-11
452	6.8785e-11	6.8786e-11	6.8786e-11
453	6.8784e-11	6.8785e-11	6.8785e-11
454	6.8783e-11	6.8784e-11	6.8784e-11
455	6.8782e-11	6.8782e-11	6.8782e-11
456	6.8780e-11	6.8781e-11	6.8781e-11
457	6.8779e-11	6.8780e-11	6.8780e-11
458	6.8778e-11	6.8779e-11	6.8779e-11
459	6.8777e-11	6.8778e-11	6.8778e-11
460	6.8776e-11	6.8777e-11	6.8777e-11
461	6.8775e-11	6.8775e-11	6.8775e-11
462	6.8773e-11	6.8774e-11	6.8774e-11
463	6.8772e-11	6.8773e-11	6.8773e-11
464	6.8771e-11	6.8772e-11	6.8772e-11
465	6.8770e-11	6.8771e-11	6.8771e-11
466	6.8769e-11	6.8770e-11	6.8770e-11
467	6.8768e-11	6.8768e-11	6.8768e-11
468	6.8766e-11	6.8767e-11	6.8767e-11
469	6.8765e-11	6.8766e-11	6.8766e-11
470	6.8764e-11	6.8765e-11	6.8765e-11

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x	$A(x)$	P_{v1}	P_{v2}
471	6.8763e-11	6.8764e-11	6.8764e-11
472	6.8762e-11	6.8763e-11	6.8763e-11
473	6.8761e-11	6.8761e-11	6.8761e-11
474	6.8759e-11	6.8760e-11	6.8760e-11
475	6.8758e-11	6.8759e-11	6.8759e-11
476	6.8757e-11	6.8758e-11	6.8758e-11
477	6.8756e-11	6.8757e-11	6.8757e-11
478	6.8755e-11	6.8756e-11	6.8756e-11
479	6.8753e-11	6.8754e-11	6.8754e-11
480	6.8752e-11	6.8753e-11	6.8753e-11
481	6.8751e-11	6.8752e-11	6.8752e-11
482	6.8750e-11	6.8751e-11	6.8751e-11
483	6.8749e-11	6.8750e-11	6.8750e-11
484	6.8748e-11	6.8749e-11	6.8749e-11
485	6.8746e-11	6.8747e-11	6.8747e-11
486	6.8745e-11	6.8746e-11	6.8746e-11
487	6.8744e-11	6.8745e-11	6.8745e-11
488	6.8743e-11	6.8744e-11	6.8744e-11
489	6.8742e-11	6.8743e-11	6.8743e-11
490	6.8741e-11	6.8742e-11	6.8742e-11
491	6.8739e-11	6.8740e-11	6.8740e-11
492	6.8738e-11	6.8739e-11	6.8739e-11
493	6.8737e-11	6.8738e-11	6.8738e-11
494	6.8736e-11	6.8737e-11	6.8737e-11
495	6.8735e-11	6.8736e-11	6.8736e-11
496	6.8734e-11	6.8735e-11	6.8735e-11
497	6.8732e-11	6.8733e-11	6.8733e-11
498	6.8731e-11	6.8732e-11	6.8732e-11
499	6.8730e-11	6.8731e-11	6.8731e-11
500	6.8729e-11	6.8730e-11	6.8730e-11
501	6.8728e-11	6.8729e-11	6.8729e-11
502	6.8727e-11	6.8728e-11	6.8728e-11
503	6.8725e-11	6.8726e-11	6.8726e-11
504	6.8724e-11	6.8725e-11	6.8725e-11
505	6.8723e-11	6.8724e-11	6.8724e-11
506	6.8722e-11	6.8723e-11	6.8723e-11
507	6.8721e-11	6.8722e-11	6.8722e-11
508	6.8720e-11	6.8721e-11	6.8721e-11
509	6.8718e-11	6.8719e-11	6.8719e-11
510	6.8717e-11	6.8718e-11	6.8718e-11

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x	$A(x)$	P_{v1}	P_{v2}
511	6.8716e-11	6.8717e-11	6.8717e-11
512	6.8715e-11	6.8716e-11	6.8716e-11
513	6.8714e-11	6.8715e-11	6.8715e-11
514	6.8713e-11	6.8714e-11	6.8714e-11
515	6.8711e-11	6.8712e-11	6.8712e-11
516	6.8710e-11	6.8711e-11	6.8711e-11
517	6.8709e-11	6.8710e-11	6.8710e-11
518	6.8708e-11	6.8709e-11	6.8709e-11
519	6.8707e-11	6.8708e-11	6.8708e-11
520	6.8706e-11	6.8707e-11	6.8707e-11
521	6.8704e-11	6.8705e-11	6.8705e-11
522	6.8703e-11	6.8704e-11	6.8704e-11
523	6.8702e-11	6.8703e-11	6.8703e-11
524	6.8701e-11	6.8702e-11	6.8702e-11
525	6.8700e-11	6.8701e-11	6.8701e-11
526	6.8699e-11	6.8700e-11	6.8700e-11
527	6.8697e-11	6.8698e-11	6.8698e-11
528	6.8696e-11	6.8697e-11	6.8697e-11
529	6.8695e-11	6.8696e-11	6.8696e-11
530	6.8694e-11	6.8695e-11	6.8695e-11
531	6.8693e-11	6.8694e-11	6.8694e-11
532	6.8692e-11	6.8693e-11	6.8693e-11
533	6.8690e-11	6.8691e-11	6.8691e-11
534	6.8689e-11	6.8690e-11	6.8690e-11
535	6.8688e-11	6.8689e-11	6.8689e-11
536	6.8687e-11	6.8688e-11	6.8688e-11
537	6.8686e-11	6.8687e-11	6.8687e-11
538	6.8685e-11	6.8686e-11	6.8686e-11
539	6.8683e-11	6.8684e-11	6.8684e-11
540	6.8682e-11	6.8683e-11	6.8683e-11
541	6.8681e-11	6.8682e-11	6.8682e-11
542	6.8680e-11	6.8681e-11	6.8681e-11
543	6.8679e-11	6.8680e-11	6.8680e-11
544	6.8677e-11	6.8679e-11	6.8679e-11
545	6.8676e-11	6.8677e-11	6.8677e-11
546	6.8675e-11	6.8676e-11	6.8676e-11
547	6.8674e-11	6.8675e-11	6.8675e-11
548	6.8673e-11	6.8674e-11	6.8674e-11
549	6.8672e-11	6.8673e-11	6.8673e-11
550	6.8670e-11	6.8672e-11	6.8672e-11

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x	$A(x)$	P_{v1}	P_{v2}
551	6.8669e-11	6.8670e-11	6.8670e-11
552	6.8668e-11	6.8669e-11	6.8669e-11
553	6.8667e-11	6.8668e-11	6.8668e-11
554	6.8666e-11	6.8667e-11	6.8667e-11
555	6.8665e-11	6.8666e-11	6.8666e-11
556	6.8663e-11	6.8665e-11	6.8665e-11
557	6.8662e-11	6.8663e-11	6.8663e-11
558	6.8661e-11	6.8662e-11	6.8662e-11
559	6.8660e-11	6.8661e-11	6.8661e-11
560	6.8659e-11	6.8660e-11	6.8660e-11
561	6.8658e-11	6.8659e-11	6.8659e-11
562	6.8656e-11	6.8658e-11	6.8658e-11
563	6.8655e-11	6.8656e-11	6.8656e-11
564	6.8654e-11	6.8655e-11	6.8655e-11
565	6.8653e-11	6.8654e-11	6.8654e-11
566	6.8652e-11	6.8653e-11	6.8653e-11
567	6.8651e-11	6.8652e-11	6.8652e-11
568	6.8649e-11	6.8651e-11	6.8651e-11
569	6.8648e-11	6.8649e-11	6.8649e-11
570	6.8647e-11	6.8648e-11	6.8648e-11
571	6.8646e-11	6.8647e-11	6.8647e-11
572	6.8645e-11	6.8646e-11	6.8646e-11
573	6.8644e-11	6.8645e-11	6.8645e-11
574	6.8642e-11	6.8644e-11	6.8644e-11
575	6.8641e-11	6.8642e-11	6.8642e-11
576	6.8640e-11	6.8641e-11	6.8641e-11
577	6.8639e-11	6.8640e-11	6.8640e-11
578	6.8638e-11	6.8639e-11	6.8639e-11
579	6.8637e-11	6.8638e-11	6.8638e-11
580	6.8635e-11	6.8637e-11	6.8637e-11
581	6.8634e-11	6.8635e-11	6.8635e-11
582	6.8633e-11	6.8634e-11	6.8634e-11
583	6.8632e-11	6.8633e-11	6.8633e-11
584	6.8631e-11	6.8632e-11	6.8632e-11
585	6.8630e-11	6.8631e-11	6.8631e-11
586	6.8628e-11	6.8630e-11	6.8630e-11
587	6.8627e-11	6.8628e-11	6.8628e-11
588	6.8626e-11	6.8627e-11	6.8627e-11
589	6.8625e-11	6.8626e-11	6.8626e-11
590	6.8624e-11	6.8625e-11	6.8625e-11

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x	$A(x)$	P_{v1}	P_{v2}
591	6.8623e-11	6.8624e-11	6.8624e-11
592	6.8621e-11	6.8623e-11	6.8623e-11
593	6.8620e-11	6.8621e-11	6.8621e-11
594	6.8619e-11	6.8620e-11	6.8620e-11
595	6.8618e-11	6.8619e-11	6.8619e-11
596	6.8617e-11	6.8618e-11	6.8618e-11
597	6.8616e-11	6.8617e-11	6.8617e-11
598	6.8614e-11	6.8616e-11	6.8616e-11
599	6.8613e-11	6.8614e-11	6.8614e-11
600	6.8612e-11	6.8613e-11	6.8613e-11
601	6.8611e-11	6.8612e-11	6.8612e-11
602	6.8610e-11	6.8611e-11	6.8611e-11
603	6.8609e-11	6.8610e-11	6.8610e-11
604	6.8607e-11	6.8609e-11	6.8609e-11
605	6.8606e-11	6.8607e-11	6.8607e-11
606	6.8605e-11	6.8606e-11	6.8606e-11
607	6.8604e-11	6.8605e-11	6.8605e-11
608	6.8603e-11	6.8604e-11	6.8604e-11
609	6.8602e-11	6.8603e-11	6.8603e-11
610	6.8600e-11	6.8602e-11	6.8602e-11
611	6.8599e-11	6.8600e-11	6.8600e-11
612	6.8598e-11	6.8599e-11	6.8599e-11
613	6.8597e-11	6.8598e-11	6.8598e-11
614	6.8596e-11	6.8597e-11	6.8597e-11
615	6.8594e-11	6.8596e-11	6.8596e-11
616	6.8593e-11	6.8595e-11	6.8595e-11
617	6.8592e-11	6.8593e-11	6.8593e-11
618	6.8591e-11	6.8592e-11	6.8592e-11
619	6.8590e-11	6.8591e-11	6.8591e-11
620	6.8589e-11	6.8590e-11	6.8590e-11
621	6.8587e-11	6.8589e-11	6.8589e-11
622	6.8586e-11	6.8588e-11	6.8588e-11
623	6.8585e-11	6.8586e-11	6.8586e-11
624	6.8584e-11	6.8585e-11	6.8585e-11
625	6.8583e-11	6.8584e-11	6.8584e-11
626	6.8582e-11	6.8583e-11	6.8583e-11
627	6.8580e-11	6.8582e-11	6.8582e-11
628	6.8579e-11	6.8581e-11	6.8581e-11
629	6.8578e-11	6.8579e-11	6.8579e-11
630	6.8577e-11	6.8578e-11	6.8578e-11

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x	$A(x)$	P_{v1}	P_{v2}
631	6.8576e-11	6.8577e-11	6.8577e-11
632	6.8575e-11	6.8576e-11	6.8576e-11
633	6.8573e-11	6.8575e-11	6.8575e-11
634	6.8572e-11	6.8574e-11	6.8574e-11
635	6.8571e-11	6.8572e-11	6.8572e-11
636	6.8570e-11	6.8571e-11	6.8571e-11
637	6.8569e-11	6.8570e-11	6.8570e-11
638	6.8568e-11	6.8569e-11	6.8569e-11
639	6.8566e-11	6.8568e-11	6.8568e-11
640	6.8565e-11	6.8567e-11	6.8567e-11
641	6.8564e-11	6.8565e-11	6.8565e-11
642	6.8563e-11	6.8564e-11	6.8564e-11
643	6.8562e-11	6.8563e-11	6.8563e-11
644	6.8561e-11	6.8562e-11	6.8562e-11
645	6.8559e-11	6.8561e-11	6.8561e-11
646	6.8558e-11	6.8560e-11	6.8560e-11
647	6.8557e-11	6.8558e-11	6.8558e-11
648	6.8556e-11	6.8557e-11	6.8557e-11
649	6.8555e-11	6.8556e-11	6.8556e-11
650	6.8554e-11	6.8555e-11	6.8555e-11
651	6.8552e-11	6.8554e-11	6.8554e-11
652	6.8551e-11	6.8553e-11	6.8553e-11
653	6.8550e-11	6.8551e-11	6.8551e-11
654	6.8549e-11	6.8550e-11	6.8550e-11
655	6.8548e-11	6.8549e-11	6.8549e-11
656	6.8547e-11	6.8548e-11	6.8548e-11
657	6.8545e-11	6.8547e-11	6.8547e-11
658	6.8544e-11	6.8546e-11	6.8546e-11
659	6.8543e-11	6.8544e-11	6.8544e-11
660	6.8542e-11	6.8543e-11	6.8543e-11
661	6.8541e-11	6.8542e-11	6.8542e-11
662	6.8540e-11	6.8541e-11	6.8541e-11
663	6.8538e-11	6.8540e-11	6.8540e-11
664	6.8537e-11	6.8539e-11	6.8539e-11
665	6.8536e-11	6.8537e-11	6.8537e-11
666	6.8535e-11	6.8536e-11	6.8536e-11
667	6.8534e-11	6.8535e-11	6.8535e-11
668	6.8533e-11	6.8534e-11	6.8534e-11
669	6.8531e-11	6.8533e-11	6.8533e-11
670	6.8530e-11	6.8532e-11	6.8532e-11

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x	$A(x)$	P_{v1}	P_{v2}
671	6.8529e-11	6.8530e-11	6.8530e-11
672	6.8528e-11	6.8529e-11	6.8529e-11
673	6.8527e-11	6.8528e-11	6.8528e-11
674	6.8526e-11	6.8527e-11	6.8527e-11
675	6.8524e-11	6.8526e-11	6.8526e-11
676	6.8523e-11	6.8525e-11	6.8525e-11
677	6.8522e-11	6.8523e-11	6.8523e-11
678	6.8521e-11	6.8522e-11	6.8522e-11
679	6.8520e-11	6.8521e-11	6.8521e-11
680	6.8519e-11	6.8520e-11	6.8520e-11
681	6.8517e-11	6.8519e-11	6.8519e-11
682	6.8516e-11	6.8518e-11	6.8518e-11
683	6.8515e-11	6.8516e-11	6.8516e-11
684	6.8514e-11	6.8515e-11	6.8515e-11
685	6.8513e-11	6.8514e-11	6.8514e-11
686	6.8512e-11	6.8513e-11	6.8513e-11
687	6.8510e-11	6.8512e-11	6.8512e-11
688	6.8509e-11	6.8511e-11	6.8511e-11
689	6.8508e-11	6.8509e-11	6.8509e-11
690	6.8507e-11	6.8508e-11	6.8508e-11
691	6.8506e-11	6.8507e-11	6.8507e-11
692	6.8505e-11	6.8506e-11	6.8506e-11
693	6.8503e-11	6.8505e-11	6.8505e-11
694	6.8502e-11	6.8504e-11	6.8504e-11
695	6.8501e-11	6.8503e-11	6.8503e-11
696	6.8500e-11	6.8501e-11	6.8501e-11
697	6.8499e-11	6.8500e-11	6.8500e-11
698	6.8498e-11	6.8499e-11	6.8499e-11
699	6.8496e-11	6.8498e-11	6.8498e-11
700	6.8495e-11	6.8497e-11	6.8497e-11
701	6.8494e-11	6.8496e-11	6.8496e-11
702	6.8493e-11	6.8494e-11	6.8494e-11
703	6.8492e-11	6.8493e-11	6.8493e-11
704	6.8491e-11	6.8492e-11	6.8492e-11
705	6.8489e-11	6.8491e-11	6.8491e-11
706	6.8488e-11	6.8490e-11	6.8490e-11
707	6.8487e-11	6.8489e-11	6.8489e-11
708	6.8486e-11	6.8487e-11	6.8487e-11
709	6.8485e-11	6.8486e-11	6.8486e-11
710	6.8484e-11	6.8485e-11	6.8485e-11

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x	$A(x)$	P_{v1}	P_{v2}
711	6.8482e-11	6.8484e-11	6.8484e-11
712	6.8481e-11	6.8483e-11	6.8483e-11
713	6.8480e-11	6.8482e-11	6.8482e-11
714	6.8479e-11	6.8480e-11	6.8480e-11
715	6.8478e-11	6.8479e-11	6.8479e-11
716	6.8477e-11	6.8478e-11	6.8478e-11
717	6.8475e-11	6.8477e-11	6.8477e-11
718	6.8474e-11	6.8476e-11	6.8476e-11
719	6.8473e-11	6.8475e-11	6.8475e-11
720	6.8472e-11	6.8473e-11	6.8473e-11
721	6.8471e-11	6.8472e-11	6.8472e-11
722	6.8470e-11	6.8471e-11	6.8471e-11
723	6.8468e-11	6.8470e-11	6.8470e-11
724	6.8467e-11	6.8469e-11	6.8469e-11
725	6.8466e-11	6.8468e-11	6.8468e-11
726	6.8465e-11	6.8466e-11	6.8466e-11
727	6.8464e-11	6.8465e-11	6.8465e-11
728	6.8462e-11	6.8464e-11	6.8464e-11
729	6.8461e-11	6.8463e-11	6.8463e-11
730	6.8460e-11	6.8462e-11	6.8462e-11
731	6.8459e-11	6.8461e-11	6.8461e-11
732	6.8458e-11	6.8459e-11	6.8459e-11
733	6.8457e-11	6.8458e-11	6.8458e-11
734	6.8455e-11	6.8457e-11	6.8457e-11
735	6.8454e-11	6.8456e-11	6.8456e-11
736	6.8453e-11	6.8455e-11	6.8455e-11
737	6.8452e-11	6.8454e-11	6.8454e-11
738	6.8451e-11	6.8452e-11	6.8452e-11
739	6.8450e-11	6.8451e-11	6.8451e-11
740	6.8448e-11	6.8450e-11	6.8450e-11
741	6.8447e-11	6.8449e-11	6.8449e-11
742	6.8446e-11	6.8448e-11	6.8448e-11
743	6.8445e-11	6.8447e-11	6.8447e-11
744	6.8444e-11	6.8445e-11	6.8445e-11
745	6.8443e-11	6.8444e-11	6.8444e-11
746	6.8441e-11	6.8443e-11	6.8443e-11
747	6.8440e-11	6.8442e-11	6.8442e-11
748	6.8439e-11	6.8441e-11	6.8441e-11
749	6.8438e-11	6.8440e-11	6.8440e-11
750	6.8437e-11	6.8438e-11	6.8438e-11

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x	$A(x)$	P_{v1}	P_{v2}
751	6.8436e-11	6.8437e-11	6.8437e-11
752	6.8434e-11	6.8436e-11	6.8436e-11
753	6.8433e-11	6.8435e-11	6.8435e-11
754	6.8432e-11	6.8434e-11	6.8434e-11
755	6.8431e-11	6.8433e-11	6.8433e-11
756	6.8430e-11	6.8431e-11	6.8431e-11
757	6.8429e-11	6.8430e-11	6.8430e-11
758	6.8427e-11	6.8429e-11	6.8429e-11
759	6.8426e-11	6.8428e-11	6.8428e-11
760	6.8425e-11	6.8427e-11	6.8427e-11
761	6.8424e-11	6.8426e-11	6.8426e-11
762	6.8423e-11	6.8425e-11	6.8425e-11
763	6.8422e-11	6.8423e-11	6.8423e-11
764	6.8420e-11	6.8422e-11	6.8422e-11
765	6.8419e-11	6.8421e-11	6.8421e-11
766	6.8418e-11	6.8420e-11	6.8420e-11
767	6.8417e-11	6.8419e-11	6.8419e-11
768	6.8416e-11	6.8418e-11	6.8418e-11
769	6.8415e-11	6.8416e-11	6.8416e-11
770	6.8413e-11	6.8415e-11	6.8415e-11
771	6.8412e-11	6.8414e-11	6.8414e-11
772	6.8411e-11	6.8413e-11	6.8413e-11
773	6.8410e-11	6.8412e-11	6.8412e-11
774	6.8409e-11	6.8411e-11	6.8411e-11
775	6.8408e-11	6.8409e-11	6.8409e-11
776	6.8406e-11	6.8408e-11	6.8408e-11
777	6.8405e-11	6.8407e-11	6.8407e-11
778	6.8404e-11	6.8406e-11	6.8406e-11
779	6.8403e-11	6.8405e-11	6.8405e-11
780	6.8402e-11	6.8404e-11	6.8404e-11
781	6.8401e-11	6.8402e-11	6.8402e-11
782	6.8399e-11	6.8401e-11	6.8401e-11
783	6.8398e-11	6.8400e-11	6.8400e-11
784	6.8397e-11	6.8399e-11	6.8399e-11
785	6.8396e-11	6.8398e-11	6.8398e-11
786	6.8395e-11	6.8397e-11	6.8397e-11
787	6.8394e-11	6.8395e-11	6.8395e-11
788	6.8392e-11	6.8394e-11	6.8394e-11
789	6.8391e-11	6.8393e-11	6.8393e-11
790	6.8390e-11	6.8392e-11	6.8392e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
791	6.8389e-11	6.8391e-11	6.8391e-11
792	6.8388e-11	6.8390e-11	6.8390e-11
793	6.8387e-11	6.8388e-11	6.8388e-11
794	6.8385e-11	6.8387e-11	6.8387e-11
795	6.8384e-11	6.8386e-11	6.8386e-11
796	6.8383e-11	6.8385e-11	6.8385e-11
797	6.8382e-11	6.8384e-11	6.8384e-11
798	6.8381e-11	6.8383e-11	6.8383e-11
799	6.8380e-11	6.8381e-11	6.8381e-11
800	6.8378e-11	6.8380e-11	6.8380e-11
801	6.8377e-11	6.8379e-11	6.8379e-11
802	6.8376e-11	6.8378e-11	6.8378e-11
803	6.8375e-11	6.8377e-11	6.8377e-11
804	6.8374e-11	6.8376e-11	6.8376e-11
805	6.8373e-11	6.8374e-11	6.8374e-11
806	6.8371e-11	6.8373e-11	6.8373e-11
807	6.8370e-11	6.8372e-11	6.8372e-11
808	6.8369e-11	6.8371e-11	6.8371e-11
809	6.8368e-11	6.8370e-11	6.8370e-11
810	6.8367e-11	6.8369e-11	6.8369e-11
811	6.8366e-11	6.8368e-11	6.8368e-11
812	6.8364e-11	6.8366e-11	6.8366e-11
813	6.8363e-11	6.8365e-11	6.8365e-11
814	6.8362e-11	6.8364e-11	6.8364e-11
815	6.8361e-11	6.8363e-11	6.8363e-11
816	6.8360e-11	6.8362e-11	6.8362e-11
817	6.8359e-11	6.8361e-11	6.8361e-11
818	6.8357e-11	6.8359e-11	6.8359e-11
819	6.8356e-11	6.8358e-11	6.8358e-11
820	6.8355e-11	6.8357e-11	6.8357e-11
821	6.8354e-11	6.8356e-11	6.8356e-11
822	6.8353e-11	6.8355e-11	6.8355e-11
823	6.8352e-11	6.8354e-11	6.8354e-11
824	6.8350e-11	6.8352e-11	6.8352e-11
825	6.8349e-11	6.8351e-11	6.8351e-11
826	6.8348e-11	6.8350e-11	6.8350e-11
827	6.8347e-11	6.8349e-11	6.8349e-11
828	6.8346e-11	6.8348e-11	6.8348e-11
829	6.8345e-11	6.8347e-11	6.8347e-11
830	6.8343e-11	6.8345e-11	6.8345e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
831	6.8342e-11	6.8344e-11	6.8344e-11
832	6.8341e-11	6.8343e-11	6.8343e-11
833	6.8340e-11	6.8342e-11	6.8342e-11
834	6.8339e-11	6.8341e-11	6.8341e-11
835	6.8338e-11	6.8340e-11	6.8340e-11
836	6.8336e-11	6.8338e-11	6.8338e-11
837	6.8335e-11	6.8337e-11	6.8337e-11
838	6.8334e-11	6.8336e-11	6.8336e-11
839	6.8333e-11	6.8335e-11	6.8335e-11
840	6.8332e-11	6.8334e-11	6.8334e-11
841	6.8331e-11	6.8333e-11	6.8333e-11
842	6.8329e-11	6.8331e-11	6.8331e-11
843	6.8328e-11	6.8330e-11	6.8330e-11
844	6.8327e-11	6.8329e-11	6.8329e-11
845	6.8326e-11	6.8328e-11	6.8328e-11
846	6.8325e-11	6.8327e-11	6.8327e-11
847	6.8324e-11	6.8326e-11	6.8326e-11
848	6.8322e-11	6.8324e-11	6.8324e-11
849	6.8321e-11	6.8323e-11	6.8323e-11
850	6.8320e-11	6.8322e-11	6.8322e-11
851	6.8319e-11	6.8321e-11	6.8321e-11
852	6.8318e-11	6.8320e-11	6.8320e-11
853	6.8317e-11	6.8319e-11	6.8319e-11
854	6.8315e-11	6.8318e-11	6.8318e-11
855	6.8314e-11	6.8316e-11	6.8316e-11
856	6.8313e-11	6.8315e-11	6.8315e-11
857	6.8312e-11	6.8314e-11	6.8314e-11
858	6.8311e-11	6.8313e-11	6.8313e-11
859	6.8310e-11	6.8312e-11	6.8312e-11
860	6.8308e-11	6.8311e-11	6.8311e-11
861	6.8307e-11	6.8309e-11	6.8309e-11
862	6.8306e-11	6.8308e-11	6.8308e-11
863	6.8305e-11	6.8307e-11	6.8307e-11
864	6.8304e-11	6.8306e-11	6.8306e-11
865	6.8303e-11	6.8305e-11	6.8305e-11
866	6.8301e-11	6.8304e-11	6.8304e-11
867	6.8300e-11	6.8302e-11	6.8302e-11
868	6.8299e-11	6.8301e-11	6.8301e-11
869	6.8298e-11	6.8300e-11	6.8300e-11
870	6.8297e-11	6.8299e-11	6.8299e-11

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x	$A(x)$	P_{v1}	P_{v2}
871	6.8296e-11	6.8298e-11	6.8298e-11
872	6.8294e-11	6.8297e-11	6.8297e-11
873	6.8293e-11	6.8295e-11	6.8295e-11
874	6.8292e-11	6.8294e-11	6.8294e-11
875	6.8291e-11	6.8293e-11	6.8293e-11
876	6.8290e-11	6.8292e-11	6.8292e-11
877	6.8289e-11	6.8291e-11	6.8291e-11
878	6.8287e-11	6.8290e-11	6.8290e-11
879	6.8286e-11	6.8288e-11	6.8288e-11
880	6.8285e-11	6.8287e-11	6.8287e-11
881	6.8284e-11	6.8286e-11	6.8286e-11
882	6.8283e-11	6.8285e-11	6.8285e-11
883	6.8282e-11	6.8284e-11	6.8284e-11
884	6.8280e-11	6.8283e-11	6.8283e-11
885	6.8279e-11	6.8281e-11	6.8281e-11
886	6.8278e-11	6.8280e-11	6.8280e-11
887	6.8277e-11	6.8279e-11	6.8279e-11
888	6.8276e-11	6.8278e-11	6.8278e-11
889	6.8275e-11	6.8277e-11	6.8277e-11
890	6.8273e-11	6.8276e-11	6.8276e-11
891	6.8272e-11	6.8275e-11	6.8275e-11
892	6.8271e-11	6.8273e-11	6.8273e-11
893	6.8270e-11	6.8272e-11	6.8272e-11
894	6.8269e-11	6.8271e-11	6.8271e-11
895	6.8268e-11	6.8270e-11	6.8270e-11
896	6.8266e-11	6.8269e-11	6.8269e-11
897	6.8265e-11	6.8268e-11	6.8268e-11
898	6.8264e-11	6.8266e-11	6.8266e-11
899	6.8263e-11	6.8265e-11	6.8265e-11
900	6.8262e-11	6.8264e-11	6.8264e-11
901	6.8261e-11	6.8263e-11	6.8263e-11
902	6.8259e-11	6.8262e-11	6.8262e-11
903	6.8258e-11	6.8261e-11	6.8261e-11
904	6.8257e-11	6.8259e-11	6.8259e-11
905	6.8256e-11	6.8258e-11	6.8258e-11
906	6.8255e-11	6.8257e-11	6.8257e-11
907	6.8254e-11	6.8256e-11	6.8256e-11
908	6.8252e-11	6.8255e-11	6.8255e-11
909	6.8251e-11	6.8254e-11	6.8254e-11
910	6.8250e-11	6.8252e-11	6.8252e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
911	6.8249e-11	6.8251e-11	6.8251e-11
912	6.8248e-11	6.8250e-11	6.8250e-11
913	6.8247e-11	6.8249e-11	6.8249e-11
914	6.8245e-11	6.8248e-11	6.8248e-11
915	6.8244e-11	6.8247e-11	6.8247e-11
916	6.8243e-11	6.8245e-11	6.8245e-11
917	6.8242e-11	6.8244e-11	6.8244e-11
918	6.8241e-11	6.8243e-11	6.8243e-11
919	6.8240e-11	6.8242e-11	6.8242e-11
920	6.8238e-11	6.8241e-11	6.8241e-11
921	6.8237e-11	6.8240e-11	6.8240e-11
922	6.8236e-11	6.8238e-11	6.8238e-11
923	6.8235e-11	6.8237e-11	6.8237e-11
924	6.8234e-11	6.8236e-11	6.8236e-11
925	6.8233e-11	6.8235e-11	6.8235e-11
926	6.8231e-11	6.8234e-11	6.8234e-11
927	6.8230e-11	6.8233e-11	6.8233e-11
928	6.8229e-11	6.8232e-11	6.8232e-11
929	6.8228e-11	6.8230e-11	6.8230e-11
930	6.8227e-11	6.8229e-11	6.8229e-11
931	6.8226e-11	6.8228e-11	6.8228e-11
932	6.8224e-11	6.8227e-11	6.8227e-11
933	6.8223e-11	6.8226e-11	6.8226e-11
934	6.8222e-11	6.8225e-11	6.8225e-11
935	6.8221e-11	6.8223e-11	6.8223e-11
936	6.8220e-11	6.8222e-11	6.8222e-11
937	6.8219e-11	6.8221e-11	6.8221e-11
938	6.8217e-11	6.8220e-11	6.8220e-11
939	6.8216e-11	6.8219e-11	6.8219e-11
940	6.8215e-11	6.8218e-11	6.8218e-11
941	6.8214e-11	6.8216e-11	6.8216e-11
942	6.8213e-11	6.8215e-11	6.8215e-11
943	6.8212e-11	6.8214e-11	6.8214e-11
944	6.8210e-11	6.8213e-11	6.8213e-11
945	6.8209e-11	6.8212e-11	6.8212e-11
946	6.8208e-11	6.8211e-11	6.8211e-11
947	6.8207e-11	6.8209e-11	6.8209e-11
948	6.8206e-11	6.8208e-11	6.8208e-11
949	6.8205e-11	6.8207e-11	6.8207e-11
950	6.8203e-11	6.8206e-11	6.8206e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
951	6.8202e-11	6.8205e-11	6.8205e-11
952	6.8201e-11	6.8204e-11	6.8204e-11
953	6.8200e-11	6.8202e-11	6.8202e-11
954	6.8199e-11	6.8201e-11	6.8201e-11
955	6.8198e-11	6.8200e-11	6.8200e-11
956	6.8196e-11	6.8199e-11	6.8199e-11
957	6.8195e-11	6.8198e-11	6.8198e-11
958	6.8194e-11	6.8197e-11	6.8197e-11
959	6.8193e-11	6.8196e-11	6.8196e-11
960	6.8192e-11	6.8194e-11	6.8194e-11
961	6.8191e-11	6.8193e-11	6.8193e-11
962	6.8189e-11	6.8192e-11	6.8192e-11
963	6.8188e-11	6.8191e-11	6.8191e-11
964	6.8187e-11	6.8190e-11	6.8190e-11
965	6.8186e-11	6.8189e-11	6.8189e-11
966	6.8185e-11	6.8187e-11	6.8187e-11
967	6.8184e-11	6.8186e-11	6.8186e-11
968	6.8182e-11	6.8185e-11	6.8185e-11
969	6.8181e-11	6.8184e-11	6.8184e-11
970	6.8180e-11	6.8183e-11	6.8183e-11
971	6.8179e-11	6.8182e-11	6.8182e-11
972	6.8178e-11	6.8180e-11	6.8180e-11
973	6.8177e-11	6.8179e-11	6.8179e-11
974	6.8175e-11	6.8178e-11	6.8178e-11
975	6.8174e-11	6.8177e-11	6.8177e-11
976	6.8173e-11	6.8176e-11	6.8176e-11
977	6.8172e-11	6.8175e-11	6.8175e-11
978	6.8171e-11	6.8173e-11	6.8173e-11
979	6.8170e-11	6.8172e-11	6.8172e-11
980	6.8168e-11	6.8171e-11	6.8171e-11
981	6.8167e-11	6.8170e-11	6.8170e-11
982	6.8166e-11	6.8169e-11	6.8169e-11
983	6.8165e-11	6.8168e-11	6.8168e-11
984	6.8164e-11	6.8166e-11	6.8166e-11
985	6.8163e-11	6.8165e-11	6.8165e-11
986	6.8162e-11	6.8164e-11	6.8164e-11
987	6.8160e-11	6.8163e-11	6.8163e-11
988	6.8159e-11	6.8162e-11	6.8162e-11
989	6.8158e-11	6.8161e-11	6.8161e-11
990	6.8157e-11	6.8160e-11	6.8160e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
991	6.8156e-11	6.8158e-11	6.8158e-11
992	6.8155e-11	6.8157e-11	6.8157e-11
993	6.8153e-11	6.8156e-11	6.8156e-11
994	6.8152e-11	6.8155e-11	6.8155e-11
995	6.8151e-11	6.8154e-11	6.8154e-11
996	6.8150e-11	6.8153e-11	6.8153e-11
997	6.8149e-11	6.8151e-11	6.8151e-11
998	6.8148e-11	6.8150e-11	6.8150e-11
999	6.8146e-11	6.8149e-11	6.8149e-11
1000	6.8145e-11	6.8148e-11	6.8148e-11

Table B.7.21: Output for Problem 7.3.4-DIST-C

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	9.9999e-11	9.9993e-11	9.9993e-11
2	9.9999e-11	9.9998e-11	9.9998e-11
3	9.9999e-11	9.9997e-11	9.9997e-11
4	9.9999e-11	9.9996e-11	9.9996e-11
5	9.9999e-11	9.9995e-11	9.9995e-11
6	9.9999e-11	9.9995e-11	9.9995e-11
7	9.9999e-11	9.9994e-11	9.9994e-11
8	9.9999e-11	9.9993e-11	9.9993e-11
9	9.9999e-11	9.9993e-11	9.9993e-11
10	9.9999e-11	9.9992e-11	9.9992e-11
11	9.9999e-11	9.9991e-11	9.9991e-11
12	9.9999e-11	9.9991e-11	9.9991e-11
13	9.9999e-11	9.9990e-11	9.9990e-11
14	9.9999e-11	9.9989e-11	9.9989e-11
15	9.9999e-11	9.9989e-11	9.9989e-11
16	9.9999e-11	9.9988e-11	9.9988e-11
17	9.9999e-11	9.9987e-11	9.9987e-11
18	9.9999e-11	9.9986e-11	9.9986e-11
19	9.9999e-11	9.9986e-11	9.9986e-11
20	9.9999e-11	9.9985e-11	9.9985e-11
21	9.9999e-11	9.9984e-11	9.9984e-11
22	9.9999e-11	9.9984e-11	9.9984e-11
23	9.9999e-11	9.9983e-11	9.9983e-11
24	9.9999e-11	9.9982e-11	9.9982e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
25	9.9999e-11	9.9982e-11	9.9982e-11
26	9.9999e-11	9.9981e-11	9.9981e-11
27	9.9999e-11	9.9980e-11	9.9980e-11
28	9.9999e-11	9.9979e-11	9.9979e-11
29	9.9999e-11	9.9979e-11	9.9979e-11
30	9.9999e-11	9.9978e-11	9.9978e-11
31	9.9999e-11	9.9977e-11	9.9977e-11
32	9.9999e-11	9.9977e-11	9.9977e-11
33	9.9999e-11	9.9976e-11	9.9976e-11
34	9.9999e-11	9.9975e-11	9.9975e-11
35	9.9999e-11	9.9975e-11	9.9975e-11
36	9.9999e-11	9.9974e-11	9.9974e-11
37	9.9999e-11	9.9973e-11	9.9973e-11
38	9.9999e-11	9.9973e-11	9.9973e-11
39	9.9999e-11	9.9972e-11	9.9972e-11
40	9.9999e-11	9.9971e-11	9.9971e-11
41	9.9999e-11	9.9970e-11	9.9970e-11
42	9.9999e-11	9.9970e-11	9.9970e-11
43	9.9999e-11	9.9969e-11	9.9969e-11
44	9.9999e-11	9.9968e-11	9.9968e-11
45	9.9999e-11	9.9968e-11	9.9968e-11
46	9.9999e-11	9.9967e-11	9.9967e-11
47	9.9999e-11	9.9966e-11	9.9966e-11
48	9.9999e-11	9.9966e-11	9.9966e-11
49	9.9999e-11	9.9965e-11	9.9965e-11
50	9.9999e-11	9.9964e-11	9.9964e-11
51	9.9999e-11	9.9964e-11	9.9964e-11
52	9.9999e-11	9.9963e-11	9.9963e-11
53	9.9999e-11	9.9962e-11	9.9962e-11
54	9.9999e-11	9.9961e-11	9.9961e-11
55	9.9999e-11	9.9961e-11	9.9961e-11
56	9.9999e-11	9.9960e-11	9.9960e-11
57	9.9999e-11	9.9959e-11	9.9959e-11
58	9.9999e-11	9.9959e-11	9.9959e-11
59	9.9999e-11	9.9958e-11	9.9958e-11
60	9.9999e-11	9.9957e-11	9.9957e-11
61	9.9999e-11	9.9957e-11	9.9957e-11
62	9.9999e-11	9.9956e-11	9.9956e-11
63	9.9999e-11	9.9955e-11	9.9955e-11
64	9.9999e-11	9.9954e-11	9.9954e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
65	9.9999e-11	9.9954e-11	9.9954e-11
66	9.9999e-11	9.9953e-11	9.9953e-11
67	9.9999e-11	9.9952e-11	9.9952e-11
68	9.9999e-11	9.9952e-11	9.9952e-11
69	9.9999e-11	9.9951e-11	9.9951e-11
70	9.9999e-11	9.9950e-11	9.9950e-11
71	9.9999e-11	9.9950e-11	9.9950e-11
72	9.9999e-11	9.9949e-11	9.9949e-11
73	9.9999e-11	9.9948e-11	9.9948e-11
74	9.9999e-11	9.9948e-11	9.9948e-11
75	9.9999e-11	9.9947e-11	9.9947e-11
76	9.9999e-11	9.9946e-11	9.9946e-11
77	9.9999e-11	9.9945e-11	9.9945e-11
78	9.9999e-11	9.9945e-11	9.9945e-11
79	9.9999e-11	9.9944e-11	9.9944e-11
80	9.9999e-11	9.9943e-11	9.9943e-11
81	9.9999e-11	9.9943e-11	9.9943e-11
82	9.9999e-11	9.9942e-11	9.9942e-11
83	9.9999e-11	9.9941e-11	9.9941e-11
84	9.9999e-11	9.9941e-11	9.9941e-11
85	9.9999e-11	9.9940e-11	9.9940e-11
86	9.9999e-11	9.9939e-11	9.9939e-11
87	9.9999e-11	9.9938e-11	9.9938e-11
88	9.9999e-11	9.9938e-11	9.9938e-11
89	9.9999e-11	9.9937e-11	9.9937e-11
90	9.9999e-11	9.9936e-11	9.9936e-11
91	9.9999e-11	9.9936e-11	9.9936e-11
92	9.9999e-11	9.9935e-11	9.9935e-11
93	9.9999e-11	9.9934e-11	9.9934e-11
94	9.9999e-11	9.9934e-11	9.9934e-11
95	9.9999e-11	9.9933e-11	9.9933e-11
96	9.9999e-11	9.9932e-11	9.9932e-11
97	9.9999e-11	9.9932e-11	9.9932e-11
98	9.9999e-11	9.9931e-11	9.9931e-11
99	9.9999e-11	9.9930e-11	9.9930e-11
100	9.9999e-11	9.9929e-11	9.9929e-11
101	9.9999e-11	9.9929e-11	9.9929e-11
102	9.9999e-11	9.9928e-11	9.9928e-11
103	9.9999e-11	9.9927e-11	9.9927e-11
104	9.9999e-11	9.9927e-11	9.9927e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
105	9.9999e-11	9.9926e-11	9.9926e-11
106	9.9999e-11	9.9925e-11	9.9925e-11
107	9.9999e-11	9.9925e-11	9.9925e-11
108	9.9999e-11	9.9924e-11	9.9924e-11
109	9.9999e-11	9.9923e-11	9.9923e-11
110	9.9999e-11	9.9922e-11	9.9922e-11
111	9.9999e-11	9.9922e-11	9.9922e-11
112	9.9999e-11	9.9921e-11	9.9921e-11
113	9.9999e-11	9.9920e-11	9.9920e-11
114	9.9999e-11	9.9920e-11	9.9920e-11
115	9.9999e-11	9.9919e-11	9.9919e-11
116	9.9999e-11	9.9918e-11	9.9918e-11
117	9.9999e-11	9.9918e-11	9.9918e-11
118	9.9999e-11	9.9917e-11	9.9917e-11
119	9.9999e-11	9.9916e-11	9.9916e-11
120	9.9999e-11	9.9915e-11	9.9915e-11
121	9.9999e-11	9.9915e-11	9.9915e-11
122	9.9999e-11	9.9914e-11	9.9914e-11
123	9.9999e-11	9.9913e-11	9.9913e-11
124	9.9999e-11	9.9913e-11	9.9913e-11
125	9.9999e-11	9.9912e-11	9.9912e-11
126	9.9999e-11	9.9911e-11	9.9911e-11
127	9.9999e-11	9.9911e-11	9.9911e-11
128	9.9999e-11	9.9910e-11	9.9910e-11
129	9.9999e-11	9.9909e-11	9.9909e-11
130	9.9999e-11	9.9909e-11	9.9909e-11
131	9.9999e-11	9.9908e-11	9.9908e-11
132	9.9999e-11	9.9907e-11	9.9907e-11
133	9.9999e-11	9.9906e-11	9.9906e-11
134	9.9999e-11	9.9906e-11	9.9906e-11
135	9.9999e-11	9.9905e-11	9.9905e-11
136	9.9999e-11	9.9904e-11	9.9904e-11
137	9.9999e-11	9.9904e-11	9.9904e-11
138	9.9999e-11	9.9903e-11	9.9903e-11
139	9.9999e-11	9.9902e-11	9.9902e-11
140	9.9999e-11	9.9902e-11	9.9902e-11
141	9.9999e-11	9.9901e-11	9.9901e-11
142	9.9999e-11	9.9900e-11	9.9900e-11
143	9.9999e-11	9.9899e-11	9.9899e-11
144	9.9999e-11	9.9899e-11	9.9899e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
145	9.9999e-11	9.9898e-11	9.9898e-11
146	9.9999e-11	9.9897e-11	9.9897e-11
147	9.9999e-11	9.9897e-11	9.9897e-11
148	9.9999e-11	9.9896e-11	9.9896e-11
149	9.9999e-11	9.9895e-11	9.9895e-11
150	9.9999e-11	9.9895e-11	9.9895e-11
151	9.9999e-11	9.9894e-11	9.9894e-11
152	9.9999e-11	9.9893e-11	9.9893e-11
153	9.9999e-11	9.9892e-11	9.9892e-11
154	9.9999e-11	9.9892e-11	9.9892e-11
155	9.9999e-11	9.9891e-11	9.9891e-11
156	9.9999e-11	9.9890e-11	9.9890e-11
157	9.9999e-11	9.9890e-11	9.9890e-11
158	9.9999e-11	9.9889e-11	9.9889e-11
159	9.9999e-11	9.9888e-11	9.9888e-11
160	9.9999e-11	9.9888e-11	9.9888e-11
161	9.9999e-11	9.9887e-11	9.9887e-11
162	9.9999e-11	9.9886e-11	9.9886e-11
163	9.9999e-11	9.9885e-11	9.9885e-11
164	9.9999e-11	9.9885e-11	9.9885e-11
165	9.9999e-11	9.9884e-11	9.9884e-11
166	9.9999e-11	9.9883e-11	9.9883e-11
167	9.9999e-11	9.9883e-11	9.9883e-11
168	9.9999e-11	9.9882e-11	9.9882e-11
169	9.9999e-11	9.9881e-11	9.9881e-11
170	9.9999e-11	9.9881e-11	9.9881e-11
171	9.9999e-11	9.9880e-11	9.9880e-11
172	9.9999e-11	9.9879e-11	9.9879e-11
173	9.9999e-11	9.9878e-11	9.9878e-11
174	9.9999e-11	9.9878e-11	9.9878e-11
175	9.9999e-11	9.9877e-11	9.9877e-11
176	9.9999e-11	9.9876e-11	9.9876e-11
177	9.9999e-11	9.9876e-11	9.9876e-11
178	9.9999e-11	9.9875e-11	9.9875e-11
179	9.9999e-11	9.9874e-11	9.9874e-11
180	9.9999e-11	9.9874e-11	9.9874e-11
181	9.9999e-11	9.9873e-11	9.9873e-11
182	9.9999e-11	9.9872e-11	9.9872e-11
183	9.9999e-11	9.9871e-11	9.9871e-11
184	9.9999e-11	9.9871e-11	9.9871e-11

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x	$A(x)$	P_{v1}	P_{v2}
185	9.9999e-11	9.9870e-11	9.9870e-11
186	9.9999e-11	9.9869e-11	9.9869e-11
187	9.9999e-11	9.9869e-11	9.9869e-11
188	9.9999e-11	9.9868e-11	9.9868e-11
189	9.9999e-11	9.9867e-11	9.9867e-11
190	9.9999e-11	9.9867e-11	9.9867e-11
191	9.9999e-11	9.9866e-11	9.9866e-11
192	9.9999e-11	9.9865e-11	9.9865e-11
193	9.9999e-11	9.9864e-11	9.9864e-11
194	9.9999e-11	9.9864e-11	9.9864e-11
195	9.9999e-11	9.9863e-11	9.9863e-11
196	9.9999e-11	9.9862e-11	9.9862e-11
197	9.9999e-11	9.9862e-11	9.9862e-11
198	9.9999e-11	9.9861e-11	9.9861e-11
199	9.9999e-11	9.9860e-11	9.9860e-11
200	9.9999e-11	9.9860e-11	9.9860e-11
201	9.9999e-11	9.9859e-11	9.9859e-11
202	9.9999e-11	9.9858e-11	9.9858e-11
203	9.9999e-11	9.9857e-11	9.9857e-11
204	9.9999e-11	9.9857e-11	9.9857e-11
205	9.9999e-11	9.9856e-11	9.9856e-11
206	9.9999e-11	9.9855e-11	9.9855e-11
207	9.9999e-11	9.9855e-11	9.9855e-11
208	9.9999e-11	9.9854e-11	9.9854e-11
209	9.9999e-11	9.9853e-11	9.9853e-11
210	9.9999e-11	9.9853e-11	9.9853e-11
211	9.9999e-11	9.9852e-11	9.9852e-11
212	9.9999e-11	9.9851e-11	9.9851e-11
213	9.9999e-11	9.9850e-11	9.9850e-11
214	9.9999e-11	9.9850e-11	9.9850e-11
215	9.9999e-11	9.9849e-11	9.9849e-11
216	9.9999e-11	9.9848e-11	9.9848e-11
217	9.9999e-11	9.9848e-11	9.9848e-11
218	9.9999e-11	9.9847e-11	9.9847e-11
219	9.9999e-11	9.9846e-11	9.9846e-11
220	9.9999e-11	9.9846e-11	9.9846e-11
221	9.9999e-11	9.9845e-11	9.9845e-11
222	9.9999e-11	9.9844e-11	9.9844e-11
223	9.9999e-11	9.9843e-11	9.9843e-11
224	9.9999e-11	9.9843e-11	9.9843e-11

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x	$A(x)$	P_{v1}	P_{v2}
225	9.9999e-11	9.9842e-11	9.9842e-11
226	9.9999e-11	9.9841e-11	9.9841e-11
227	9.9999e-11	9.9841e-11	9.9841e-11
228	9.9999e-11	9.9840e-11	9.9840e-11
229	9.9999e-11	9.9839e-11	9.9839e-11
230	9.9999e-11	9.9839e-11	9.9839e-11
231	9.9999e-11	9.9838e-11	9.9838e-11
232	9.9999e-11	9.9837e-11	9.9837e-11
233	9.9999e-11	9.9836e-11	9.9836e-11
234	9.9999e-11	9.9836e-11	9.9836e-11
235	9.9999e-11	9.9835e-11	9.9835e-11
236	9.9999e-11	9.9834e-11	9.9834e-11
237	9.9999e-11	9.9834e-11	9.9834e-11
238	9.9999e-11	9.9833e-11	9.9833e-11
239	9.9999e-11	9.9832e-11	9.9832e-11
240	9.9999e-11	9.9832e-11	9.9832e-11
241	9.9999e-11	9.9831e-11	9.9831e-11
242	9.9999e-11	9.9830e-11	9.9830e-11
243	9.9999e-11	9.9829e-11	9.9829e-11
244	9.9999e-11	9.9829e-11	9.9829e-11
245	9.9999e-11	9.9828e-11	9.9828e-11
246	9.9999e-11	9.9827e-11	9.9827e-11
247	9.9999e-11	9.9827e-11	9.9827e-11
248	9.9999e-11	9.9826e-11	9.9826e-11
249	9.9999e-11	9.9825e-11	9.9825e-11
250	9.9999e-11	9.9825e-11	9.9825e-11
251	9.9999e-11	9.9824e-11	9.9824e-11
252	9.9999e-11	9.9823e-11	9.9823e-11
253	9.9999e-11	9.9822e-11	9.9822e-11
254	9.9999e-11	9.9822e-11	9.9822e-11
255	9.9999e-11	9.9821e-11	9.9821e-11
256	9.9999e-11	9.9820e-11	9.9820e-11
257	9.9999e-11	9.9820e-11	9.9820e-11
258	9.9999e-11	9.9819e-11	9.9819e-11
259	9.9999e-11	9.9818e-11	9.9818e-11
260	9.9999e-11	9.9818e-11	9.9818e-11
261	9.9999e-11	9.9817e-11	9.9817e-11
262	9.9999e-11	9.9816e-11	9.9816e-11
263	9.9999e-11	9.9815e-11	9.9815e-11
264	9.9999e-11	9.9815e-11	9.9815e-11

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x	$A(x)$	P_{v1}	P_{v2}
265	9.9999e-11	9.9814e-11	9.9814e-11
266	9.9999e-11	9.9813e-11	9.9813e-11
267	9.9999e-11	9.9813e-11	9.9813e-11
268	9.9999e-11	9.9812e-11	9.9812e-11
269	9.9999e-11	9.9811e-11	9.9811e-11
270	9.9999e-11	9.9810e-11	9.9810e-11
271	9.9999e-11	9.9810e-11	9.9810e-11
272	9.9999e-11	9.9809e-11	9.9809e-11
273	9.9999e-11	9.9808e-11	9.9808e-11
274	9.9999e-11	9.9808e-11	9.9808e-11
275	9.9999e-11	9.9807e-11	9.9807e-11
276	9.9999e-11	9.9806e-11	9.9806e-11
277	9.9999e-11	9.9806e-11	9.9806e-11
278	9.9999e-11	9.9805e-11	9.9805e-11
279	9.9999e-11	9.9804e-11	9.9804e-11
280	9.9999e-11	9.9803e-11	9.9803e-11
281	9.9999e-11	9.9803e-11	9.9803e-11
282	9.9999e-11	9.9802e-11	9.9802e-11
283	9.9999e-11	9.9801e-11	9.9801e-11
284	9.9999e-11	9.9801e-11	9.9801e-11
285	9.9999e-11	9.9800e-11	9.9800e-11
286	9.9999e-11	9.9799e-11	9.9799e-11
287	9.9999e-11	9.9799e-11	9.9799e-11
288	9.9999e-11	9.9798e-11	9.9798e-11
289	9.9999e-11	9.9797e-11	9.9797e-11
290	9.9999e-11	9.9796e-11	9.9796e-11
291	9.9999e-11	9.9796e-11	9.9796e-11
292	9.9999e-11	9.9795e-11	9.9795e-11
293	9.9999e-11	9.9794e-11	9.9794e-11
294	9.9999e-11	9.9794e-11	9.9794e-11
295	9.9999e-11	9.9793e-11	9.9793e-11
296	9.9999e-11	9.9792e-11	9.9792e-11
297	9.9999e-11	9.9792e-11	9.9792e-11
298	9.9999e-11	9.9791e-11	9.9791e-11
299	9.9999e-11	9.9790e-11	9.9790e-11
300	9.9999e-11	9.9789e-11	9.9789e-11
301	9.9999e-11	9.9789e-11	9.9789e-11
302	9.9999e-11	9.9788e-11	9.9788e-11
303	9.9999e-11	9.9787e-11	9.9787e-11
304	9.9999e-11	9.9787e-11	9.9787e-11

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x	$A(x)$	P_{v1}	P_{v2}
305	9.9999e-11	9.9786e-11	9.9786e-11
306	9.9999e-11	9.9785e-11	9.9785e-11
307	9.9999e-11	9.9784e-11	9.9784e-11
308	9.9999e-11	9.9784e-11	9.9784e-11
309	9.9999e-11	9.9783e-11	9.9783e-11
310	9.9999e-11	9.9782e-11	9.9782e-11
311	9.9999e-11	9.9782e-11	9.9782e-11
312	9.9999e-11	9.9781e-11	9.9781e-11
313	9.9999e-11	9.9780e-11	9.9780e-11
314	9.9999e-11	9.9780e-11	9.9780e-11
315	9.9999e-11	9.9779e-11	9.9779e-11
316	9.9999e-11	9.9778e-11	9.9778e-11
317	9.9999e-11	9.9777e-11	9.9777e-11
318	9.9999e-11	9.9777e-11	9.9777e-11
319	9.9999e-11	9.9776e-11	9.9776e-11
320	9.9999e-11	9.9775e-11	9.9775e-11
321	9.9999e-11	9.9775e-11	9.9775e-11
322	9.9999e-11	9.9774e-11	9.9774e-11
323	9.9999e-11	9.9773e-11	9.9773e-11
324	9.9999e-11	9.9772e-11	9.9772e-11
325	9.9999e-11	9.9772e-11	9.9772e-11
326	9.9999e-11	9.9771e-11	9.9771e-11
327	9.9999e-11	9.9770e-11	9.9770e-11
328	9.9999e-11	9.9770e-11	9.9770e-11
329	9.9999e-11	9.9769e-11	9.9769e-11
330	9.9999e-11	9.9768e-11	9.9768e-11
331	9.9999e-11	9.9768e-11	9.9768e-11
332	9.9999e-11	9.9767e-11	9.9767e-11
333	9.9999e-11	9.9766e-11	9.9766e-11
334	9.9999e-11	9.9765e-11	9.9765e-11
335	9.9999e-11	9.9765e-11	9.9765e-11
336	9.9999e-11	9.9764e-11	9.9764e-11
337	9.9999e-11	9.9763e-11	9.9763e-11
338	9.9999e-11	9.9763e-11	9.9763e-11
339	9.9999e-11	9.9762e-11	9.9762e-11
340	9.9999e-11	9.9761e-11	9.9761e-11
341	9.9999e-11	9.9761e-11	9.9761e-11
342	9.9999e-11	9.9760e-11	9.9760e-11
343	9.9999e-11	9.9759e-11	9.9759e-11
344	9.9999e-11	9.9758e-11	9.9758e-11

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x	$A(x)$	P_{v1}	P_{v2}
345	9.9999e-11	9.9758e-11	9.9758e-11
346	9.9999e-11	9.9757e-11	9.9757e-11
347	9.9999e-11	9.9756e-11	9.9756e-11
348	9.9999e-11	9.9756e-11	9.9756e-11
349	9.9999e-11	9.9755e-11	9.9755e-11
350	9.9999e-11	9.9754e-11	9.9754e-11
351	9.9999e-11	9.9753e-11	9.9753e-11
352	9.9999e-11	9.9753e-11	9.9753e-11
353	9.9999e-11	9.9752e-11	9.9752e-11
354	9.9999e-11	9.9751e-11	9.9751e-11
355	9.9999e-11	9.9751e-11	9.9751e-11
356	9.9999e-11	9.9750e-11	9.9750e-11
357	9.9999e-11	9.9749e-11	9.9749e-11
358	9.9999e-11	9.9749e-11	9.9749e-11
359	9.9999e-11	9.9748e-11	9.9748e-11
360	9.9999e-11	9.9747e-11	9.9747e-11
361	9.9999e-11	9.9746e-11	9.9746e-11
362	9.9999e-11	9.9746e-11	9.9746e-11
363	9.9999e-11	9.9745e-11	9.9745e-11
364	9.9999e-11	9.9744e-11	9.9744e-11
365	9.9999e-11	9.9744e-11	9.9744e-11
366	9.9999e-11	9.9743e-11	9.9743e-11
367	9.9999e-11	9.9742e-11	9.9742e-11
368	9.9999e-11	9.9741e-11	9.9741e-11
369	9.9999e-11	9.9741e-11	9.9741e-11
370	9.9999e-11	9.9740e-11	9.9740e-11
371	9.9999e-11	9.9739e-11	9.9739e-11
372	9.9999e-11	9.9739e-11	9.9739e-11
373	9.9999e-11	9.9738e-11	9.9738e-11
374	9.9999e-11	9.9737e-11	9.9737e-11
375	9.9999e-11	9.9737e-11	9.9737e-11
376	9.9999e-11	9.9736e-11	9.9736e-11
377	9.9999e-11	9.9735e-11	9.9735e-11
378	9.9999e-11	9.9734e-11	9.9734e-11
379	9.9999e-11	9.9734e-11	9.9734e-11
380	9.9999e-11	9.9733e-11	9.9733e-11
381	9.9999e-11	9.9732e-11	9.9732e-11
382	9.9999e-11	9.9732e-11	9.9732e-11
383	9.9999e-11	9.9731e-11	9.9731e-11
384	9.9999e-11	9.9730e-11	9.9730e-11

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x	$A(x)$	P_{v1}	P_{v2}
385	9.9999e-11	9.9729e-11	9.9729e-11
386	9.9999e-11	9.9729e-11	9.9729e-11
387	9.9999e-11	9.9728e-11	9.9728e-11
388	9.9999e-11	9.9727e-11	9.9727e-11
389	9.9999e-11	9.9727e-11	9.9727e-11
390	9.9999e-11	9.9726e-11	9.9726e-11
391	9.9999e-11	9.9725e-11	9.9725e-11
392	9.9999e-11	9.9725e-11	9.9725e-11
393	9.9999e-11	9.9724e-11	9.9724e-11
394	9.9999e-11	9.9723e-11	9.9723e-11
395	9.9999e-11	9.9722e-11	9.9722e-11
396	9.9999e-11	9.9722e-11	9.9722e-11
397	9.9999e-11	9.9721e-11	9.9721e-11
398	9.9999e-11	9.9720e-11	9.9720e-11
399	9.9999e-11	9.9720e-11	9.9720e-11
400	9.9999e-11	9.9719e-11	9.9719e-11
401	9.9999e-11	9.9718e-11	9.9718e-11
402	9.9999e-11	9.9717e-11	9.9717e-11
403	9.9999e-11	9.9717e-11	9.9717e-11
404	9.9999e-11	9.9716e-11	9.9716e-11
405	9.9999e-11	9.9715e-11	9.9715e-11
406	9.9999e-11	9.9715e-11	9.9715e-11
407	9.9999e-11	9.9714e-11	9.9714e-11
408	9.9999e-11	9.9713e-11	9.9713e-11
409	9.9999e-11	9.9712e-11	9.9712e-11
410	9.9999e-11	9.9712e-11	9.9712e-11
411	9.9999e-11	9.9711e-11	9.9711e-11
412	9.9999e-11	9.9710e-11	9.9710e-11
413	9.9999e-11	9.9710e-11	9.9710e-11
414	9.9999e-11	9.9709e-11	9.9709e-11
415	9.9999e-11	9.9708e-11	9.9708e-11
416	9.9999e-11	9.9708e-11	9.9708e-11
417	9.9999e-11	9.9707e-11	9.9707e-11
418	9.9999e-11	9.9706e-11	9.9706e-11
419	9.9999e-11	9.9705e-11	9.9705e-11
420	9.9999e-11	9.9705e-11	9.9705e-11
421	9.9999e-11	9.9704e-11	9.9704e-11
422	9.9999e-11	9.9703e-11	9.9703e-11
423	9.9999e-11	9.9703e-11	9.9703e-11
424	9.9999e-11	9.9702e-11	9.9702e-11

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x	$A(x)$	P_{v1}	P_{v2}
425	9.9999e-11	9.9701e-11	9.9701e-11
426	9.9999e-11	9.9700e-11	9.9700e-11
427	9.9999e-11	9.9700e-11	9.9700e-11
428	9.9999e-11	9.9699e-11	9.9699e-11
429	9.9999e-11	9.9698e-11	9.9698e-11
430	9.9999e-11	9.9698e-11	9.9698e-11
431	9.9999e-11	9.9697e-11	9.9697e-11
432	9.9999e-11	9.9696e-11	9.9696e-11
433	9.9999e-11	9.9696e-11	9.9696e-11
434	9.9999e-11	9.9695e-11	9.9695e-11
435	9.9999e-11	9.9694e-11	9.9694e-11
436	9.9999e-11	9.9693e-11	9.9693e-11
437	9.9999e-11	9.9693e-11	9.9693e-11
438	9.9999e-11	9.9692e-11	9.9692e-11
439	9.9999e-11	9.9691e-11	9.9691e-11
440	9.9999e-11	9.9691e-11	9.9691e-11
441	9.9999e-11	9.9690e-11	9.9690e-11
442	9.9999e-11	9.9689e-11	9.9689e-11
443	9.9999e-11	9.9688e-11	9.9688e-11
444	9.9999e-11	9.9688e-11	9.9688e-11
445	9.9999e-11	9.9687e-11	9.9687e-11
446	9.9999e-11	9.9686e-11	9.9686e-11
447	9.9999e-11	9.9686e-11	9.9686e-11
448	9.9999e-11	9.9685e-11	9.9685e-11
449	9.9999e-11	9.9684e-11	9.9684e-11
450	9.9999e-11	9.9683e-11	9.9683e-11
451	9.9999e-11	9.9683e-11	9.9683e-11
452	9.9999e-11	9.9682e-11	9.9682e-11
453	9.9999e-11	9.9681e-11	9.9681e-11
454	9.9999e-11	9.9681e-11	9.9681e-11
455	9.9999e-11	9.9680e-11	9.9680e-11
456	9.9999e-11	9.9679e-11	9.9679e-11
457	9.9999e-11	9.9679e-11	9.9679e-11
458	9.9999e-11	9.9678e-11	9.9678e-11
459	9.9999e-11	9.9677e-11	9.9677e-11
460	9.9999e-11	9.9676e-11	9.9676e-11
461	9.9999e-11	9.9676e-11	9.9676e-11
462	9.9999e-11	9.9675e-11	9.9675e-11
463	9.9999e-11	9.9674e-11	9.9674e-11
464	9.9999e-11	9.9674e-11	9.9674e-11

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x	$A(x)$	P_{v1}	P_{v2}
465	9.9999e-11	9.9673e-11	9.9673e-11
466	9.9999e-11	9.9672e-11	9.9672e-11
467	9.9999e-11	9.9671e-11	9.9671e-11
468	9.9999e-11	9.9671e-11	9.9671e-11
469	9.9999e-11	9.9670e-11	9.9670e-11
470	9.9999e-11	9.9669e-11	9.9669e-11
471	9.9999e-11	9.9669e-11	9.9669e-11
472	9.9999e-11	9.9668e-11	9.9668e-11
473	9.9999e-11	9.9667e-11	9.9667e-11
474	9.9999e-11	9.9666e-11	9.9666e-11
475	9.9999e-11	9.9666e-11	9.9666e-11
476	9.9999e-11	9.9665e-11	9.9665e-11
477	9.9999e-11	9.9664e-11	9.9664e-11
478	9.9999e-11	9.9664e-11	9.9664e-11
479	9.9999e-11	9.9663e-11	9.9663e-11
480	9.9999e-11	9.9662e-11	9.9662e-11
481	9.9999e-11	9.9661e-11	9.9661e-11
482	9.9999e-11	9.9661e-11	9.9661e-11
483	9.9999e-11	9.9660e-11	9.9660e-11
484	9.9999e-11	9.9659e-11	9.9659e-11
485	9.9999e-11	9.9659e-11	9.9659e-11
486	9.9999e-11	9.9658e-11	9.9658e-11
487	9.9999e-11	9.9657e-11	9.9657e-11
488	9.9999e-11	9.9657e-11	9.9657e-11
489	9.9999e-11	9.9656e-11	9.9656e-11
490	9.9999e-11	9.9655e-11	9.9655e-11
491	9.9999e-11	9.9654e-11	9.9654e-11
492	9.9999e-11	9.9654e-11	9.9654e-11
493	9.9999e-11	9.9653e-11	9.9653e-11
494	9.9999e-11	9.9652e-11	9.9652e-11
495	9.9999e-11	9.9652e-11	9.9652e-11
496	9.9999e-11	9.9651e-11	9.9651e-11
497	9.9999e-11	9.9650e-11	9.9650e-11
498	9.9999e-11	9.9649e-11	9.9649e-11
499	9.9999e-11	9.9649e-11	9.9649e-11
500	9.9999e-11	9.9648e-11	9.9648e-11
501	9.9999e-11	9.9647e-11	9.9647e-11
502	9.9999e-11	9.9647e-11	9.9647e-11
503	9.9999e-11	9.9646e-11	9.9646e-11
504	9.9999e-11	9.9645e-11	9.9645e-11

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x	$A(x)$	P_{v1}	P_{v2}
505	9.9999e-11	9.9644e-11	9.9644e-11
506	9.9999e-11	9.9644e-11	9.9644e-11
507	9.9999e-11	9.9643e-11	9.9643e-11
508	9.9999e-11	9.9642e-11	9.9642e-11
509	9.9999e-11	9.9642e-11	9.9642e-11
510	9.9999e-11	9.9641e-11	9.9641e-11
511	9.9999e-11	9.9640e-11	9.9640e-11
512	9.9999e-11	9.9639e-11	9.9639e-11
513	9.9999e-11	9.9639e-11	9.9639e-11
514	9.9999e-11	9.9638e-11	9.9638e-11
515	9.9999e-11	9.9637e-11	9.9637e-11
516	9.9999e-11	9.9637e-11	9.9637e-11
517	9.9999e-11	9.9636e-11	9.9636e-11
518	9.9999e-11	9.9635e-11	9.9635e-11
519	9.9999e-11	9.9634e-11	9.9634e-11
520	9.9999e-11	9.9634e-11	9.9634e-11
521	9.9999e-11	9.9633e-11	9.9633e-11
522	9.9999e-11	9.9632e-11	9.9632e-11
523	9.9999e-11	9.9632e-11	9.9632e-11
524	9.9999e-11	9.9631e-11	9.9631e-11
525	9.9999e-11	9.9630e-11	9.9630e-11
526	9.9999e-11	9.9630e-11	9.9630e-11
527	9.9999e-11	9.9629e-11	9.9629e-11
528	9.9999e-11	9.9628e-11	9.9628e-11
529	9.9999e-11	9.9627e-11	9.9627e-11
530	9.9999e-11	9.9627e-11	9.9627e-11
531	9.9999e-11	9.9626e-11	9.9626e-11
532	9.9999e-11	9.9625e-11	9.9625e-11
533	9.9999e-11	9.9625e-11	9.9625e-11
534	9.9999e-11	9.9624e-11	9.9624e-11
535	9.9999e-11	9.9623e-11	9.9623e-11
536	9.9999e-11	9.9622e-11	9.9622e-11
537	9.9999e-11	9.9622e-11	9.9622e-11
538	9.9999e-11	9.9621e-11	9.9621e-11
539	9.9999e-11	9.9620e-11	9.9620e-11
540	9.9999e-11	9.9620e-11	9.9620e-11
541	9.9999e-11	9.9619e-11	9.9619e-11
542	9.9999e-11	9.9618e-11	9.9618e-11
543	9.9999e-11	9.9617e-11	9.9617e-11
544	9.9999e-11	9.9617e-11	9.9617e-11

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x	$A(x)$	P_{v1}	P_{v2}
545	9.9999e-11	9.9616e-11	9.9616e-11
546	9.9999e-11	9.9615e-11	9.9615e-11
547	9.9999e-11	9.9615e-11	9.9615e-11
548	9.9999e-11	9.9614e-11	9.9614e-11
549	9.9999e-11	9.9613e-11	9.9613e-11
550	9.9999e-11	9.9612e-11	9.9612e-11
551	9.9999e-11	9.9612e-11	9.9612e-11
552	9.9999e-11	9.9611e-11	9.9611e-11
553	9.9999e-11	9.9610e-11	9.9610e-11
554	9.9999e-11	9.9610e-11	9.9610e-11
555	9.9999e-11	9.9609e-11	9.9609e-11
556	9.9999e-11	9.9608e-11	9.9608e-11
557	9.9999e-11	9.9607e-11	9.9607e-11
558	9.9999e-11	9.9607e-11	9.9607e-11
559	9.9999e-11	9.9606e-11	9.9606e-11
560	9.9999e-11	9.9605e-11	9.9605e-11
561	9.9999e-11	9.9605e-11	9.9605e-11
562	9.9999e-11	9.9604e-11	9.9604e-11
563	9.9999e-11	9.9603e-11	9.9603e-11
564	9.9999e-11	9.9602e-11	9.9602e-11
565	9.9999e-11	9.9602e-11	9.9602e-11
566	9.9999e-11	9.9601e-11	9.9601e-11
567	9.9999e-11	9.9600e-11	9.9600e-11
568	9.9999e-11	9.9600e-11	9.9600e-11
569	9.9999e-11	9.9599e-11	9.9599e-11
570	9.9999e-11	9.9598e-11	9.9598e-11
571	9.9999e-11	9.9597e-11	9.9597e-11
572	9.9999e-11	9.9597e-11	9.9597e-11
573	9.9999e-11	9.9596e-11	9.9596e-11
574	9.9999e-11	9.9595e-11	9.9595e-11
575	9.9999e-11	9.9595e-11	9.9595e-11
576	9.9999e-11	9.9594e-11	9.9594e-11
577	9.9999e-11	9.9593e-11	9.9593e-11
578	9.9999e-11	9.9592e-11	9.9592e-11
579	9.9999e-11	9.9592e-11	9.9592e-11
580	9.9999e-11	9.9591e-11	9.9591e-11
581	9.9999e-11	9.9590e-11	9.9590e-11
582	9.9999e-11	9.9590e-11	9.9590e-11
583	9.9999e-11	9.9589e-11	9.9589e-11
584	9.9999e-11	9.9588e-11	9.9588e-11

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x	$A(x)$	P_{v1}	P_{v2}
585	9.9999e-11	9.9587e-11	9.9587e-11
586	9.9999e-11	9.9587e-11	9.9587e-11
587	9.9999e-11	9.9586e-11	9.9586e-11
588	9.9999e-11	9.9585e-11	9.9585e-11
589	9.9999e-11	9.9585e-11	9.9585e-11
590	9.9999e-11	9.9584e-11	9.9584e-11
591	9.9999e-11	9.9583e-11	9.9583e-11
592	9.9999e-11	9.9582e-11	9.9582e-11
593	9.9999e-11	9.9582e-11	9.9582e-11
594	9.9999e-11	9.9581e-11	9.9581e-11
595	9.9999e-11	9.9580e-11	9.9580e-11
596	9.9999e-11	9.9580e-11	9.9580e-11
597	9.9999e-11	9.9579e-11	9.9579e-11
598	9.9999e-11	9.9578e-11	9.9578e-11
599	9.9999e-11	9.9577e-11	9.9577e-11
600	9.9999e-11	9.9577e-11	9.9577e-11
601	9.9999e-11	9.9576e-11	9.9576e-11
602	9.9999e-11	9.9575e-11	9.9575e-11
603	9.9999e-11	9.9575e-11	9.9575e-11
604	9.9999e-11	9.9574e-11	9.9574e-11
605	9.9999e-11	9.9573e-11	9.9573e-11
606	9.9999e-11	9.9572e-11	9.9572e-11
607	9.9999e-11	9.9572e-11	9.9572e-11
608	9.9999e-11	9.9571e-11	9.9571e-11
609	9.9999e-11	9.9570e-11	9.9570e-11
610	9.9999e-11	9.9570e-11	9.9570e-11
611	9.9999e-11	9.9569e-11	9.9569e-11
612	9.9999e-11	9.9568e-11	9.9568e-11
613	9.9999e-11	9.9567e-11	9.9567e-11
614	9.9999e-11	9.9567e-11	9.9567e-11
615	9.9999e-11	9.9566e-11	9.9566e-11
616	9.9999e-11	9.9565e-11	9.9565e-11
617	9.9999e-11	9.9565e-11	9.9565e-11
618	9.9999e-11	9.9564e-11	9.9564e-11
619	9.9999e-11	9.9563e-11	9.9563e-11
620	9.9999e-11	9.9562e-11	9.9562e-11
621	9.9999e-11	9.9562e-11	9.9562e-11
622	9.9999e-11	9.9561e-11	9.9561e-11
623	9.9999e-11	9.9560e-11	9.9560e-11
624	9.9999e-11	9.9560e-11	9.9560e-11

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x	$A(x)$	P_{v1}	P_{v2}
625	9.9999e-11	9.9559e-11	9.9559e-11
626	9.9999e-11	9.9558e-11	9.9558e-11
627	9.9999e-11	9.9557e-11	9.9557e-11
628	9.9999e-11	9.9557e-11	9.9557e-11
629	9.9999e-11	9.9556e-11	9.9556e-11
630	9.9999e-11	9.9555e-11	9.9555e-11
631	9.9999e-11	9.9555e-11	9.9555e-11
632	9.9999e-11	9.9554e-11	9.9554e-11
633	9.9999e-11	9.9553e-11	9.9553e-11
634	9.9999e-11	9.9552e-11	9.9552e-11
635	9.9999e-11	9.9552e-11	9.9552e-11
636	9.9999e-11	9.9551e-11	9.9551e-11
637	9.9999e-11	9.9550e-11	9.9550e-11
638	9.9999e-11	9.9550e-11	9.9550e-11
639	9.9999e-11	9.9549e-11	9.9549e-11
640	9.9999e-11	9.9548e-11	9.9548e-11
641	9.9999e-11	9.9547e-11	9.9547e-11
642	9.9999e-11	9.9547e-11	9.9547e-11
643	9.9999e-11	9.9546e-11	9.9546e-11
644	9.9999e-11	9.9545e-11	9.9545e-11
645	9.9999e-11	9.9545e-11	9.9545e-11
646	9.9999e-11	9.9544e-11	9.9544e-11
647	9.9999e-11	9.9543e-11	9.9543e-11
648	9.9999e-11	9.9542e-11	9.9542e-11
649	9.9999e-11	9.9542e-11	9.9542e-11
650	9.9999e-11	9.9541e-11	9.9541e-11
651	9.9999e-11	9.9540e-11	9.9540e-11
652	9.9999e-11	9.9540e-11	9.9540e-11
653	9.9999e-11	9.9539e-11	9.9539e-11
654	9.9999e-11	9.9538e-11	9.9538e-11
655	9.9999e-11	9.9537e-11	9.9537e-11
656	9.9999e-11	9.9537e-11	9.9537e-11
657	9.9999e-11	9.9536e-11	9.9536e-11
658	9.9999e-11	9.9535e-11	9.9535e-11
659	9.9999e-11	9.9535e-11	9.9535e-11
660	9.9999e-11	9.9534e-11	9.9534e-11
661	9.9999e-11	9.9533e-11	9.9533e-11
662	9.9999e-11	9.9532e-11	9.9532e-11
663	9.9999e-11	9.9532e-11	9.9532e-11
664	9.9999e-11	9.9531e-11	9.9531e-11

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x	$A(x)$	P_{v1}	P_{v2}
665	9.9999e-11	9.9530e-11	9.9530e-11
666	9.9999e-11	9.9530e-11	9.9530e-11
667	9.9999e-11	9.9529e-11	9.9529e-11
668	9.9999e-11	9.9528e-11	9.9528e-11
669	9.9999e-11	9.9527e-11	9.9527e-11
670	9.9999e-11	9.9527e-11	9.9527e-11
671	9.9999e-11	9.9526e-11	9.9526e-11
672	9.9999e-11	9.9525e-11	9.9525e-11
673	9.9999e-11	9.9525e-11	9.9525e-11
674	9.9999e-11	9.9524e-11	9.9524e-11
675	9.9999e-11	9.9523e-11	9.9523e-11
676	9.9999e-11	9.9522e-11	9.9522e-11
677	9.9999e-11	9.9522e-11	9.9522e-11
678	9.9999e-11	9.9521e-11	9.9521e-11
679	9.9999e-11	9.9520e-11	9.9520e-11
680	9.9999e-11	9.9520e-11	9.9520e-11
681	9.9999e-11	9.9519e-11	9.9519e-11
682	9.9999e-11	9.9518e-11	9.9518e-11
683	9.9999e-11	9.9517e-11	9.9517e-11
684	9.9999e-11	9.9517e-11	9.9517e-11
685	9.9999e-11	9.9516e-11	9.9516e-11
686	9.9999e-11	9.9515e-11	9.9515e-11
687	9.9999e-11	9.9515e-11	9.9515e-11
688	9.9999e-11	9.9514e-11	9.9514e-11
689	9.9999e-11	9.9513e-11	9.9513e-11
690	9.9999e-11	9.9512e-11	9.9512e-11
691	9.9999e-11	9.9512e-11	9.9512e-11
692	9.9999e-11	9.9511e-11	9.9511e-11
693	9.9999e-11	9.9510e-11	9.9510e-11
694	9.9999e-11	9.9510e-11	9.9510e-11
695	9.9999e-11	9.9509e-11	9.9509e-11
696	9.9999e-11	9.9508e-11	9.9508e-11
697	9.9999e-11	9.9507e-11	9.9507e-11
698	9.9999e-11	9.9507e-11	9.9507e-11
699	9.9999e-11	9.9506e-11	9.9506e-11
700	9.9999e-11	9.9505e-11	9.9505e-11
701	9.9999e-11	9.9505e-11	9.9505e-11
702	9.9999e-11	9.9504e-11	9.9504e-11
703	9.9999e-11	9.9503e-11	9.9503e-11
704	9.9999e-11	9.9502e-11	9.9502e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
705	9.9999e-11	9.9502e-11	9.9502e-11
706	9.9999e-11	9.9501e-11	9.9501e-11
707	9.9999e-11	9.9500e-11	9.9500e-11
708	9.9999e-11	9.9499e-11	9.9499e-11
709	9.9999e-11	9.9499e-11	9.9499e-11
710	9.9999e-11	9.9498e-11	9.9498e-11
711	9.9999e-11	9.9497e-11	9.9497e-11
712	9.9999e-11	9.9497e-11	9.9497e-11
713	9.9999e-11	9.9496e-11	9.9496e-11
714	9.9999e-11	9.9495e-11	9.9495e-11
715	9.9999e-11	9.9494e-11	9.9494e-11
716	9.9999e-11	9.9494e-11	9.9494e-11
717	9.9999e-11	9.9493e-11	9.9493e-11
718	9.9999e-11	9.9492e-11	9.9492e-11
719	9.9999e-11	9.9492e-11	9.9492e-11
720	9.9999e-11	9.9491e-11	9.9491e-11
721	9.9999e-11	9.9490e-11	9.9490e-11
722	9.9999e-11	9.9489e-11	9.9489e-11
723	9.9999e-11	9.9489e-11	9.9489e-11
724	9.9999e-11	9.9488e-11	9.9488e-11
725	9.9999e-11	9.9487e-11	9.9487e-11
726	9.9999e-11	9.9487e-11	9.9487e-11
727	9.9999e-11	9.9486e-11	9.9486e-11
728	9.9999e-11	9.9485e-11	9.9485e-11
729	9.9999e-11	9.9484e-11	9.9484e-11
730	9.9999e-11	9.9484e-11	9.9484e-11
731	9.9999e-11	9.9483e-11	9.9483e-11
732	9.9999e-11	9.9482e-11	9.9482e-11
733	9.9999e-11	9.9482e-11	9.9482e-11
734	9.9999e-11	9.9481e-11	9.9481e-11
735	9.9999e-11	9.9480e-11	9.9480e-11
736	9.9999e-11	9.9479e-11	9.9479e-11
737	9.9999e-11	9.9479e-11	9.9479e-11
738	9.9999e-11	9.9478e-11	9.9478e-11
739	9.9999e-11	9.9477e-11	9.9477e-11
740	9.9999e-11	9.9477e-11	9.9477e-11
741	9.9999e-11	9.9476e-11	9.9476e-11
742	9.9999e-11	9.9475e-11	9.9475e-11
743	9.9999e-11	9.9474e-11	9.9474e-11
744	9.9999e-11	9.9474e-11	9.9474e-11

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x	$A(x)$	P_{v1}	P_{v2}
745	9.9999e-11	9.9473e-11	9.9473e-11
746	9.9999e-11	9.9472e-11	9.9472e-11
747	9.9999e-11	9.9471e-11	9.9471e-11
748	9.9999e-11	9.9471e-11	9.9471e-11
749	9.9999e-11	9.9470e-11	9.9470e-11
750	9.9999e-11	9.9469e-11	9.9469e-11
751	9.9999e-11	9.9469e-11	9.9469e-11
752	9.9999e-11	9.9468e-11	9.9468e-11
753	9.9999e-11	9.9467e-11	9.9467e-11
754	9.9999e-11	9.9466e-11	9.9466e-11
755	9.9999e-11	9.9466e-11	9.9466e-11
756	9.9999e-11	9.9465e-11	9.9465e-11
757	9.9999e-11	9.9464e-11	9.9464e-11
758	9.9999e-11	9.9464e-11	9.9464e-11
759	9.9999e-11	9.9463e-11	9.9463e-11
760	9.9999e-11	9.9462e-11	9.9462e-11
761	9.9999e-11	9.9461e-11	9.9461e-11
762	9.9999e-11	9.9461e-11	9.9461e-11
763	9.9999e-11	9.9460e-11	9.9460e-11
764	9.9999e-11	9.9459e-11	9.9459e-11
765	9.9999e-11	9.9459e-11	9.9459e-11
766	9.9999e-11	9.9458e-11	9.9458e-11
767	9.9999e-11	9.9457e-11	9.9457e-11
768	9.9999e-11	9.9456e-11	9.9456e-11
769	9.9999e-11	9.9456e-11	9.9456e-11
770	9.9999e-11	9.9455e-11	9.9455e-11
771	9.9999e-11	9.9454e-11	9.9454e-11
772	9.9999e-11	9.9454e-11	9.9454e-11
773	9.9999e-11	9.9453e-11	9.9453e-11
774	9.9999e-11	9.9452e-11	9.9452e-11
775	9.9999e-11	9.9451e-11	9.9451e-11
776	9.9999e-11	9.9451e-11	9.9451e-11
777	9.9999e-11	9.9450e-11	9.9450e-11
778	9.9999e-11	9.9449e-11	9.9449e-11
779	9.9999e-11	9.9448e-11	9.9448e-11
780	9.9999e-11	9.9448e-11	9.9448e-11
781	9.9999e-11	9.9447e-11	9.9447e-11
782	9.9999e-11	9.9446e-11	9.9446e-11
783	9.9999e-11	9.9446e-11	9.9446e-11
784	9.9999e-11	9.9445e-11	9.9445e-11

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x	$A(x)$	P_{v1}	P_{v2}
785	9.9999e-11	9.9444e-11	9.9444e-11
786	9.9999e-11	9.9443e-11	9.9443e-11
787	9.9999e-11	9.9443e-11	9.9443e-11
788	9.9999e-11	9.9442e-11	9.9442e-11
789	9.9999e-11	9.9441e-11	9.9441e-11
790	9.9999e-11	9.9441e-11	9.9441e-11
791	9.9999e-11	9.9440e-11	9.9440e-11
792	9.9999e-11	9.9439e-11	9.9439e-11
793	9.9999e-11	9.9438e-11	9.9438e-11
794	9.9999e-11	9.9438e-11	9.9438e-11
795	9.9999e-11	9.9437e-11	9.9437e-11
796	9.9999e-11	9.9436e-11	9.9436e-11
797	9.9999e-11	9.9436e-11	9.9436e-11
798	9.9999e-11	9.9435e-11	9.9435e-11
799	9.9999e-11	9.9434e-11	9.9434e-11
800	9.9999e-11	9.9433e-11	9.9433e-11
801	9.9999e-11	9.9433e-11	9.9433e-11
802	9.9999e-11	9.9432e-11	9.9432e-11
803	9.9999e-11	9.9431e-11	9.9431e-11
804	9.9999e-11	9.9430e-11	9.9430e-11
805	9.9999e-11	9.9430e-11	9.9430e-11
806	9.9999e-11	9.9429e-11	9.9429e-11
807	9.9999e-11	9.9428e-11	9.9428e-11
808	9.9999e-11	9.9428e-11	9.9428e-11
809	9.9999e-11	9.9427e-11	9.9427e-11
810	9.9999e-11	9.9426e-11	9.9426e-11
811	9.9999e-11	9.9425e-11	9.9425e-11
812	9.9999e-11	9.9425e-11	9.9425e-11
813	9.9999e-11	9.9424e-11	9.9424e-11
814	9.9999e-11	9.9423e-11	9.9423e-11
815	9.9999e-11	9.9423e-11	9.9423e-11
816	9.9999e-11	9.9422e-11	9.9422e-11
817	9.9999e-11	9.9421e-11	9.9421e-11
818	9.9999e-11	9.9420e-11	9.9420e-11
819	9.9999e-11	9.9420e-11	9.9420e-11
820	9.9999e-11	9.9419e-11	9.9419e-11
821	9.9999e-11	9.9418e-11	9.9418e-11
822	9.9999e-11	9.9417e-11	9.9417e-11
823	9.9999e-11	9.9417e-11	9.9417e-11
824	9.9999e-11	9.9416e-11	9.9416e-11

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x	$A(x)$	P_{v1}	P_{v2}
825	9.9999e-11	9.9415e-11	9.9415e-11
826	9.9999e-11	9.9415e-11	9.9415e-11
827	9.9999e-11	9.9414e-11	9.9414e-11
828	9.9999e-11	9.9413e-11	9.9413e-11
829	9.9999e-11	9.9412e-11	9.9412e-11
830	9.9999e-11	9.9412e-11	9.9412e-11
831	9.9999e-11	9.9411e-11	9.9411e-11
832	9.9999e-11	9.9410e-11	9.9410e-11
833	9.9999e-11	9.9410e-11	9.9410e-11
834	9.9999e-11	9.9409e-11	9.9409e-11
835	9.9999e-11	9.9408e-11	9.9408e-11
836	9.9999e-11	9.9407e-11	9.9407e-11
837	9.9999e-11	9.9407e-11	9.9407e-11
838	9.9999e-11	9.9406e-11	9.9406e-11
839	9.9999e-11	9.9405e-11	9.9405e-11
840	9.9999e-11	9.9404e-11	9.9404e-11
841	9.9999e-11	9.9404e-11	9.9404e-11
842	9.9999e-11	9.9403e-11	9.9403e-11
843	9.9999e-11	9.9402e-11	9.9402e-11
844	9.9999e-11	9.9402e-11	9.9402e-11
845	9.9999e-11	9.9401e-11	9.9401e-11
846	9.9999e-11	9.9400e-11	9.9400e-11
847	9.9999e-11	9.9399e-11	9.9399e-11
848	9.9999e-11	9.9399e-11	9.9399e-11
849	9.9999e-11	9.9398e-11	9.9398e-11
850	9.9999e-11	9.9397e-11	9.9397e-11
851	9.9999e-11	9.9397e-11	9.9397e-11
852	9.9999e-11	9.9396e-11	9.9396e-11
853	9.9999e-11	9.9395e-11	9.9395e-11
854	9.9999e-11	9.9394e-11	9.9394e-11
855	9.9999e-11	9.9394e-11	9.9394e-11
856	9.9999e-11	9.9393e-11	9.9393e-11
857	9.9999e-11	9.9392e-11	9.9392e-11
858	9.9999e-11	9.9391e-11	9.9391e-11
859	9.9999e-11	9.9391e-11	9.9391e-11
860	9.9999e-11	9.9390e-11	9.9390e-11
861	9.9999e-11	9.9389e-11	9.9389e-11
862	9.9999e-11	9.9389e-11	9.9389e-11
863	9.9999e-11	9.9388e-11	9.9388e-11
864	9.9999e-11	9.9387e-11	9.9387e-11

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x	$A(x)$	P_{v1}	P_{v2}
865	9.9999e-11	9.9386e-11	9.9386e-11
866	9.9999e-11	9.9386e-11	9.9386e-11
867	9.9999e-11	9.9385e-11	9.9385e-11
868	9.9999e-11	9.9384e-11	9.9384e-11
869	9.9999e-11	9.9384e-11	9.9384e-11
870	9.9999e-11	9.9383e-11	9.9383e-11
871	9.9999e-11	9.9382e-11	9.9382e-11
872	9.9999e-11	9.9381e-11	9.9381e-11
873	9.9999e-11	9.9381e-11	9.9381e-11
874	9.9999e-11	9.9380e-11	9.9380e-11
875	9.9999e-11	9.9379e-11	9.9379e-11
876	9.9999e-11	9.9378e-11	9.9378e-11
877	9.9999e-11	9.9378e-11	9.9378e-11
878	9.9999e-11	9.9377e-11	9.9377e-11
879	9.9999e-11	9.9376e-11	9.9376e-11
880	9.9999e-11	9.9376e-11	9.9376e-11
881	9.9999e-11	9.9375e-11	9.9375e-11
882	9.9999e-11	9.9374e-11	9.9374e-11
883	9.9999e-11	9.9373e-11	9.9373e-11
884	9.9999e-11	9.9373e-11	9.9373e-11
885	9.9999e-11	9.9372e-11	9.9372e-11
886	9.9999e-11	9.9371e-11	9.9371e-11
887	9.9999e-11	9.9371e-11	9.9371e-11
888	9.9999e-11	9.9370e-11	9.9370e-11
889	9.9999e-11	9.9369e-11	9.9369e-11
890	9.9999e-11	9.9368e-11	9.9368e-11
891	9.9999e-11	9.9368e-11	9.9368e-11
892	9.9999e-11	9.9367e-11	9.9367e-11
893	9.9999e-11	9.9366e-11	9.9366e-11
894	9.9999e-11	9.9365e-11	9.9365e-11
895	9.9999e-11	9.9365e-11	9.9365e-11
896	9.9999e-11	9.9364e-11	9.9364e-11
897	9.9999e-11	9.9363e-11	9.9363e-11
898	9.9999e-11	9.9363e-11	9.9363e-11
899	9.9999e-11	9.9362e-11	9.9362e-11
900	9.9999e-11	9.9361e-11	9.9361e-11
901	9.9999e-11	9.9360e-11	9.9360e-11
902	9.9999e-11	9.9360e-11	9.9360e-11
903	9.9999e-11	9.9359e-11	9.9359e-11
904	9.9999e-11	9.9358e-11	9.9358e-11

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x	$A(x)$	P_{v1}	P_{v2}
905	9.9999e-11	9.9358e-11	9.9358e-11
906	9.9999e-11	9.9357e-11	9.9357e-11
907	9.9999e-11	9.9356e-11	9.9356e-11
908	9.9999e-11	9.9355e-11	9.9355e-11
909	9.9999e-11	9.9355e-11	9.9355e-11
910	9.9999e-11	9.9354e-11	9.9354e-11
911	9.9999e-11	9.9353e-11	9.9353e-11
912	9.9999e-11	9.9352e-11	9.9352e-11
913	9.9999e-11	9.9352e-11	9.9352e-11
914	9.9999e-11	9.9351e-11	9.9351e-11
915	9.9999e-11	9.9350e-11	9.9350e-11
916	9.9999e-11	9.9350e-11	9.9350e-11
917	9.9999e-11	9.9349e-11	9.9349e-11
918	9.9999e-11	9.9348e-11	9.9348e-11
919	9.9999e-11	9.9347e-11	9.9347e-11
920	9.9999e-11	9.9347e-11	9.9347e-11
921	9.9999e-11	9.9346e-11	9.9346e-11
922	9.9999e-11	9.9345e-11	9.9345e-11
923	9.9999e-11	9.9344e-11	9.9344e-11
924	9.9999e-11	9.9344e-11	9.9344e-11
925	9.9999e-11	9.9343e-11	9.9343e-11
926	9.9999e-11	9.9342e-11	9.9342e-11
927	9.9999e-11	9.9342e-11	9.9342e-11
928	9.9999e-11	9.9341e-11	9.9341e-11
929	9.9999e-11	9.9340e-11	9.9340e-11
930	9.9999e-11	9.9339e-11	9.9339e-11
931	9.9999e-11	9.9339e-11	9.9339e-11
932	9.9999e-11	9.9338e-11	9.9338e-11
933	9.9999e-11	9.9337e-11	9.9337e-11
934	9.9999e-11	9.9336e-11	9.9336e-11
935	9.9999e-11	9.9336e-11	9.9336e-11
936	9.9999e-11	9.9335e-11	9.9335e-11
937	9.9999e-11	9.9334e-11	9.9334e-11
938	9.9999e-11	9.9334e-11	9.9334e-11
939	9.9999e-11	9.9333e-11	9.9333e-11
940	9.9999e-11	9.9332e-11	9.9332e-11
941	9.9999e-11	9.9331e-11	9.9331e-11
942	9.9999e-11	9.9331e-11	9.9331e-11
943	9.9999e-11	9.9330e-11	9.9330e-11
944	9.9999e-11	9.9329e-11	9.9329e-11

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x	$A(x)$	P_{v1}	P_{v2}
945	9.9999e-11	9.9329e-11	9.9329e-11
946	9.9999e-11	9.9328e-11	9.9328e-11
947	9.9999e-11	9.9327e-11	9.9327e-11
948	9.9999e-11	9.9326e-11	9.9326e-11
949	9.9999e-11	9.9326e-11	9.9326e-11
950	9.9999e-11	9.9325e-11	9.9325e-11
951	9.9999e-11	9.9324e-11	9.9324e-11
952	9.9999e-11	9.9323e-11	9.9323e-11
953	9.9999e-11	9.9323e-11	9.9323e-11
954	9.9999e-11	9.9322e-11	9.9322e-11
955	9.9999e-11	9.9321e-11	9.9321e-11
956	9.9999e-11	9.9321e-11	9.9321e-11
957	9.9999e-11	9.9320e-11	9.9320e-11
958	9.9999e-11	9.9319e-11	9.9319e-11
959	9.9999e-11	9.9318e-11	9.9318e-11
960	9.9999e-11	9.9318e-11	9.9318e-11
961	9.9999e-11	9.9317e-11	9.9317e-11
962	9.9999e-11	9.9316e-11	9.9316e-11
963	9.9999e-11	9.9315e-11	9.9315e-11
964	9.9999e-11	9.9315e-11	9.9315e-11
965	9.9999e-11	9.9314e-11	9.9314e-11
966	9.9999e-11	9.9313e-11	9.9313e-11
967	9.9999e-11	9.9313e-11	9.9313e-11
968	9.9999e-11	9.9312e-11	9.9312e-11
969	9.9999e-11	9.9311e-11	9.9311e-11
970	9.9999e-11	9.9310e-11	9.9310e-11
971	9.9999e-11	9.9310e-11	9.9310e-11
972	9.9999e-11	9.9309e-11	9.9309e-11
973	9.9999e-11	9.9308e-11	9.9308e-11
974	9.9999e-11	9.9307e-11	9.9307e-11
975	9.9999e-11	9.9307e-11	9.9307e-11
976	9.9999e-11	9.9306e-11	9.9306e-11
977	9.9999e-11	9.9305e-11	9.9305e-11
978	9.9999e-11	9.9305e-11	9.9305e-11
979	9.9999e-11	9.9304e-11	9.9304e-11
980	9.9999e-11	9.9303e-11	9.9303e-11
981	9.9999e-11	9.9302e-11	9.9302e-11
982	9.9999e-11	9.9302e-11	9.9302e-11
983	9.9999e-11	9.9301e-11	9.9301e-11
984	9.9999e-11	9.9300e-11	9.9300e-11

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x	$A(x)$	P_{v1}	P_{v2}
985	9.9999e-11	9.9299e-11	9.9299e-11
986	9.9999e-11	9.9299e-11	9.9299e-11
987	9.9999e-11	9.9298e-11	9.9298e-11
988	9.9999e-11	9.9297e-11	9.9297e-11
989	9.9999e-11	9.9297e-11	9.9297e-11
990	9.9999e-11	9.9296e-11	9.9296e-11
991	9.9999e-11	9.9295e-11	9.9295e-11
992	9.9999e-11	9.9294e-11	9.9294e-11
993	9.9999e-11	9.9294e-11	9.9294e-11
994	9.9999e-11	9.9293e-11	9.9293e-11
995	9.9999e-11	9.9292e-11	9.9292e-11
996	9.9999e-11	9.9291e-11	9.9291e-11
997	9.9999e-11	9.9291e-11	9.9291e-11
998	9.9999e-11	9.9290e-11	9.9290e-11
999	9.9999e-11	9.9289e-11	9.9289e-11
1000	9.9999e-11	9.9289e-11	9.9289e-11

Table B.7.22: Output for Problem 7.3.5-DIST-C2

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	6.9314e-11	6.9304e-11	6.9304e-11
2	6.9312e-11	6.9313e-11	6.9313e-11
3	6.9311e-11	6.9312e-11	6.9312e-11
4	6.9310e-11	6.9310e-11	6.9310e-11
5	6.9309e-11	6.9309e-11	6.9309e-11
6	6.9308e-11	6.9308e-11	6.9308e-11
7	6.9307e-11	6.9307e-11	6.9307e-11
8	6.9305e-11	6.9306e-11	6.9306e-11
9	6.9304e-11	6.9304e-11	6.9304e-11
10	6.9303e-11	6.9303e-11	6.9303e-11
11	6.9302e-11	6.9302e-11	6.9302e-11
12	6.9301e-11	6.9301e-11	6.9301e-11
13	6.9299e-11	6.9300e-11	6.9300e-11
14	6.9298e-11	6.9299e-11	6.9299e-11
15	6.9297e-11	6.9297e-11	6.9297e-11
16	6.9296e-11	6.9296e-11	6.9296e-11
17	6.9295e-11	6.9295e-11	6.9295e-11
18	6.9294e-11	6.9294e-11	6.9294e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
19	6.9292e-11	6.9293e-11	6.9293e-11
20	6.9291e-11	6.9292e-11	6.9292e-11
21	6.9290e-11	6.9290e-11	6.9290e-11
22	6.9289e-11	6.9289e-11	6.9289e-11
23	6.9288e-11	6.9288e-11	6.9288e-11
24	6.9287e-11	6.9287e-11	6.9287e-11
25	6.9285e-11	6.9286e-11	6.9286e-11
26	6.9284e-11	6.9285e-11	6.9285e-11
27	6.9283e-11	6.9283e-11	6.9283e-11
28	6.9282e-11	6.9282e-11	6.9282e-11
29	6.9281e-11	6.9281e-11	6.9281e-11
30	6.9280e-11	6.9280e-11	6.9280e-11
31	6.9278e-11	6.9279e-11	6.9279e-11
32	6.9277e-11	6.9277e-11	6.9277e-11
33	6.9276e-11	6.9276e-11	6.9276e-11
34	6.9275e-11	6.9275e-11	6.9275e-11
35	6.9274e-11	6.9274e-11	6.9274e-11
36	6.9272e-11	6.9273e-11	6.9273e-11
37	6.9271e-11	6.9272e-11	6.9272e-11
38	6.9270e-11	6.9270e-11	6.9270e-11
39	6.9269e-11	6.9269e-11	6.9269e-11
40	6.9268e-11	6.9268e-11	6.9268e-11
41	6.9267e-11	6.9267e-11	6.9267e-11
42	6.9265e-11	6.9266e-11	6.9266e-11
43	6.9264e-11	6.9265e-11	6.9265e-11
44	6.9263e-11	6.9263e-11	6.9263e-11
45	6.9262e-11	6.9262e-11	6.9262e-11
46	6.9261e-11	6.9261e-11	6.9261e-11
47	6.9260e-11	6.9260e-11	6.9260e-11
48	6.9258e-11	6.9259e-11	6.9259e-11
49	6.9257e-11	6.9258e-11	6.9258e-11
50	6.9256e-11	6.9256e-11	6.9256e-11
51	6.9255e-11	6.9255e-11	6.9255e-11
52	6.9254e-11	6.9254e-11	6.9254e-11
53	6.9253e-11	6.9253e-11	6.9253e-11
54	6.9251e-11	6.9252e-11	6.9252e-11
55	6.9250e-11	6.9250e-11	6.9250e-11
56	6.9249e-11	6.9249e-11	6.9249e-11
57	6.9248e-11	6.9248e-11	6.9248e-11
58	6.9247e-11	6.9247e-11	6.9247e-11

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x	$A(x)$	P_{v1}	P_{v2}
59	6.9245e-11	6.9246e-11	6.9246e-11
60	6.9244e-11	6.9245e-11	6.9245e-11
61	6.9243e-11	6.9243e-11	6.9243e-11
62	6.9242e-11	6.9242e-11	6.9242e-11
63	6.9241e-11	6.9241e-11	6.9241e-11
64	6.9240e-11	6.9240e-11	6.9240e-11
65	6.9238e-11	6.9239e-11	6.9239e-11
66	6.9237e-11	6.9238e-11	6.9238e-11
67	6.9236e-11	6.9236e-11	6.9236e-11
68	6.9235e-11	6.9235e-11	6.9235e-11
69	6.9234e-11	6.9234e-11	6.9234e-11
70	6.9233e-11	6.9233e-11	6.9233e-11
71	6.9231e-11	6.9232e-11	6.9232e-11
72	6.9230e-11	6.9231e-11	6.9231e-11
73	6.9229e-11	6.9229e-11	6.9229e-11
74	6.9228e-11	6.9228e-11	6.9228e-11
75	6.9227e-11	6.9227e-11	6.9227e-11
76	6.9226e-11	6.9226e-11	6.9226e-11
77	6.9224e-11	6.9225e-11	6.9225e-11
78	6.9223e-11	6.9224e-11	6.9224e-11
79	6.9222e-11	6.9222e-11	6.9222e-11
80	6.9221e-11	6.9221e-11	6.9221e-11
81	6.9220e-11	6.9220e-11	6.9220e-11
82	6.9219e-11	6.9219e-11	6.9219e-11
83	6.9217e-11	6.9218e-11	6.9218e-11
84	6.9216e-11	6.9216e-11	6.9216e-11
85	6.9215e-11	6.9215e-11	6.9215e-11
86	6.9214e-11	6.9214e-11	6.9214e-11
87	6.9213e-11	6.9213e-11	6.9213e-11
88	6.9211e-11	6.9212e-11	6.9212e-11
89	6.9210e-11	6.9211e-11	6.9211e-11
90	6.9209e-11	6.9209e-11	6.9209e-11
91	6.9208e-11	6.9208e-11	6.9208e-11
92	6.9207e-11	6.9207e-11	6.9207e-11
93	6.9206e-11	6.9206e-11	6.9206e-11
94	6.9204e-11	6.9205e-11	6.9205e-11
95	6.9203e-11	6.9204e-11	6.9204e-11
96	6.9202e-11	6.9202e-11	6.9202e-11
97	6.9201e-11	6.9201e-11	6.9201e-11
98	6.9200e-11	6.9200e-11	6.9200e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
99	6.9199e-11	6.9199e-11	6.9199e-11
100	6.9197e-11	6.9198e-11	6.9198e-11
101	6.9196e-11	6.9197e-11	6.9197e-11
102	6.9195e-11	6.9195e-11	6.9195e-11
103	6.9194e-11	6.9194e-11	6.9194e-11
104	6.9193e-11	6.9193e-11	6.9193e-11
105	6.9192e-11	6.9192e-11	6.9192e-11
106	6.9190e-11	6.9191e-11	6.9191e-11
107	6.9189e-11	6.9190e-11	6.9190e-11
108	6.9188e-11	6.9188e-11	6.9188e-11
109	6.9187e-11	6.9187e-11	6.9187e-11
110	6.9186e-11	6.9186e-11	6.9186e-11
111	6.9184e-11	6.9185e-11	6.9185e-11
112	6.9183e-11	6.9184e-11	6.9184e-11
113	6.9182e-11	6.9182e-11	6.9182e-11
114	6.9181e-11	6.9181e-11	6.9181e-11
115	6.9180e-11	6.9180e-11	6.9180e-11
116	6.9179e-11	6.9179e-11	6.9179e-11
117	6.9177e-11	6.9178e-11	6.9178e-11
118	6.9176e-11	6.9177e-11	6.9177e-11
119	6.9175e-11	6.9175e-11	6.9175e-11
120	6.9174e-11	6.9174e-11	6.9174e-11
121	6.9173e-11	6.9173e-11	6.9173e-11
122	6.9172e-11	6.9172e-11	6.9172e-11
123	6.9170e-11	6.9171e-11	6.9171e-11
124	6.9169e-11	6.9170e-11	6.9170e-11
125	6.9168e-11	6.9168e-11	6.9168e-11
126	6.9167e-11	6.9167e-11	6.9167e-11
127	6.9166e-11	6.9166e-11	6.9166e-11
128	6.9165e-11	6.9165e-11	6.9165e-11
129	6.9163e-11	6.9164e-11	6.9164e-11
130	6.9162e-11	6.9163e-11	6.9163e-11
131	6.9161e-11	6.9161e-11	6.9161e-11
132	6.9160e-11	6.9160e-11	6.9160e-11
133	6.9159e-11	6.9159e-11	6.9159e-11
134	6.9158e-11	6.9158e-11	6.9158e-11
135	6.9156e-11	6.9157e-11	6.9157e-11
136	6.9155e-11	6.9156e-11	6.9156e-11
137	6.9154e-11	6.9154e-11	6.9154e-11
138	6.9153e-11	6.9153e-11	6.9153e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
139	6.9152e-11	6.9152e-11	6.9152e-11
140	6.9150e-11	6.9151e-11	6.9151e-11
141	6.9149e-11	6.9150e-11	6.9150e-11
142	6.9148e-11	6.9149e-11	6.9149e-11
143	6.9147e-11	6.9147e-11	6.9147e-11
144	6.9146e-11	6.9146e-11	6.9146e-11
145	6.9145e-11	6.9145e-11	6.9145e-11
146	6.9143e-11	6.9144e-11	6.9144e-11
147	6.9142e-11	6.9143e-11	6.9143e-11
148	6.9141e-11	6.9141e-11	6.9141e-11
149	6.9140e-11	6.9140e-11	6.9140e-11
150	6.9139e-11	6.9139e-11	6.9139e-11
151	6.9138e-11	6.9138e-11	6.9138e-11
152	6.9136e-11	6.9137e-11	6.9137e-11
153	6.9135e-11	6.9136e-11	6.9136e-11
154	6.9134e-11	6.9134e-11	6.9134e-11
155	6.9133e-11	6.9133e-11	6.9133e-11
156	6.9132e-11	6.9132e-11	6.9132e-11
157	6.9131e-11	6.9131e-11	6.9131e-11
158	6.9129e-11	6.9130e-11	6.9130e-11
159	6.9128e-11	6.9129e-11	6.9129e-11
160	6.9127e-11	6.9127e-11	6.9127e-11
161	6.9126e-11	6.9126e-11	6.9126e-11
162	6.9125e-11	6.9125e-11	6.9125e-11
163	6.9124e-11	6.9124e-11	6.9124e-11
164	6.9122e-11	6.9123e-11	6.9123e-11
165	6.9121e-11	6.9122e-11	6.9122e-11
166	6.9120e-11	6.9120e-11	6.9120e-11
167	6.9119e-11	6.9119e-11	6.9119e-11
168	6.9118e-11	6.9118e-11	6.9118e-11
169	6.9116e-11	6.9117e-11	6.9117e-11
170	6.9115e-11	6.9116e-11	6.9116e-11
171	6.9114e-11	6.9115e-11	6.9115e-11
172	6.9113e-11	6.9113e-11	6.9113e-11
173	6.9112e-11	6.9112e-11	6.9112e-11
174	6.9111e-11	6.9111e-11	6.9111e-11
175	6.9109e-11	6.9110e-11	6.9110e-11
176	6.9108e-11	6.9109e-11	6.9109e-11
177	6.9107e-11	6.9107e-11	6.9107e-11
178	6.9106e-11	6.9106e-11	6.9106e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
179	6.9105e-11	6.9105e-11	6.9105e-11
180	6.9104e-11	6.9104e-11	6.9104e-11
181	6.9102e-11	6.9103e-11	6.9103e-11
182	6.9101e-11	6.9102e-11	6.9102e-11
183	6.9100e-11	6.9100e-11	6.9100e-11
184	6.9099e-11	6.9099e-11	6.9099e-11
185	6.9098e-11	6.9098e-11	6.9098e-11
186	6.9097e-11	6.9097e-11	6.9097e-11
187	6.9095e-11	6.9096e-11	6.9096e-11
188	6.9094e-11	6.9095e-11	6.9095e-11
189	6.9093e-11	6.9093e-11	6.9093e-11
190	6.9092e-11	6.9092e-11	6.9092e-11
191	6.9091e-11	6.9091e-11	6.9091e-11
192	6.9090e-11	6.9090e-11	6.9090e-11
193	6.9088e-11	6.9089e-11	6.9089e-11
194	6.9087e-11	6.9088e-11	6.9088e-11
195	6.9086e-11	6.9086e-11	6.9086e-11
196	6.9085e-11	6.9085e-11	6.9085e-11
197	6.9084e-11	6.9084e-11	6.9084e-11
198	6.9083e-11	6.9083e-11	6.9083e-11
199	6.9081e-11	6.9082e-11	6.9082e-11
200	6.9080e-11	6.9081e-11	6.9081e-11
201	6.9079e-11	6.9079e-11	6.9079e-11
202	6.9078e-11	6.9078e-11	6.9078e-11
203	6.9077e-11	6.9077e-11	6.9077e-11
204	6.9075e-11	6.9076e-11	6.9076e-11
205	6.9074e-11	6.9075e-11	6.9075e-11
206	6.9073e-11	6.9074e-11	6.9074e-11
207	6.9072e-11	6.9072e-11	6.9072e-11
208	6.9071e-11	6.9071e-11	6.9071e-11
209	6.9070e-11	6.9070e-11	6.9070e-11
210	6.9068e-11	6.9069e-11	6.9069e-11
211	6.9067e-11	6.9068e-11	6.9068e-11
212	6.9066e-11	6.9067e-11	6.9067e-11
213	6.9065e-11	6.9065e-11	6.9065e-11
214	6.9064e-11	6.9064e-11	6.9064e-11
215	6.9063e-11	6.9063e-11	6.9063e-11
216	6.9061e-11	6.9062e-11	6.9062e-11
217	6.9060e-11	6.9061e-11	6.9061e-11
218	6.9059e-11	6.9059e-11	6.9059e-11

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x	$A(x)$	P_{v1}	P_{v2}
219	6.9058e-11	6.9058e-11	6.9058e-11
220	6.9057e-11	6.9057e-11	6.9057e-11
221	6.9056e-11	6.9056e-11	6.9056e-11
222	6.9054e-11	6.9055e-11	6.9055e-11
223	6.9053e-11	6.9054e-11	6.9054e-11
224	6.9052e-11	6.9052e-11	6.9052e-11
225	6.9051e-11	6.9051e-11	6.9051e-11
226	6.9050e-11	6.9050e-11	6.9050e-11
227	6.9049e-11	6.9049e-11	6.9049e-11
228	6.9047e-11	6.9048e-11	6.9048e-11
229	6.9046e-11	6.9047e-11	6.9047e-11
230	6.9045e-11	6.9045e-11	6.9045e-11
231	6.9044e-11	6.9044e-11	6.9044e-11
232	6.9043e-11	6.9043e-11	6.9043e-11
233	6.9041e-11	6.9042e-11	6.9042e-11
234	6.9040e-11	6.9041e-11	6.9041e-11
235	6.9039e-11	6.9040e-11	6.9040e-11
236	6.9038e-11	6.9038e-11	6.9038e-11
237	6.9037e-11	6.9037e-11	6.9037e-11
238	6.9036e-11	6.9036e-11	6.9036e-11
239	6.9034e-11	6.9035e-11	6.9035e-11
240	6.9033e-11	6.9034e-11	6.9034e-11
241	6.9032e-11	6.9033e-11	6.9033e-11
242	6.9031e-11	6.9031e-11	6.9031e-11
243	6.9030e-11	6.9030e-11	6.9030e-11
244	6.9029e-11	6.9029e-11	6.9029e-11
245	6.9027e-11	6.9028e-11	6.9028e-11
246	6.9026e-11	6.9027e-11	6.9027e-11
247	6.9025e-11	6.9026e-11	6.9026e-11
248	6.9024e-11	6.9024e-11	6.9024e-11
249	6.9023e-11	6.9023e-11	6.9023e-11
250	6.9022e-11	6.9022e-11	6.9022e-11
251	6.9020e-11	6.9021e-11	6.9021e-11
252	6.9019e-11	6.9020e-11	6.9020e-11
253	6.9018e-11	6.9019e-11	6.9019e-11
254	6.9017e-11	6.9017e-11	6.9017e-11
255	6.9016e-11	6.9016e-11	6.9016e-11
256	6.9015e-11	6.9015e-11	6.9015e-11
257	6.9013e-11	6.9014e-11	6.9014e-11
258	6.9012e-11	6.9013e-11	6.9013e-11

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x	$A(x)$	P_{v1}	P_{v2}
259	6.9011e-11	6.9011e-11	6.9011e-11
260	6.9010e-11	6.9010e-11	6.9010e-11
261	6.9009e-11	6.9009e-11	6.9009e-11
262	6.9008e-11	6.9008e-11	6.9008e-11
263	6.9006e-11	6.9007e-11	6.9007e-11
264	6.9005e-11	6.9006e-11	6.9006e-11
265	6.9004e-11	6.9004e-11	6.9004e-11
266	6.9003e-11	6.9003e-11	6.9003e-11
267	6.9002e-11	6.9002e-11	6.9002e-11
268	6.9000e-11	6.9001e-11	6.9001e-11
269	6.8999e-11	6.9000e-11	6.9000e-11
270	6.8998e-11	6.8999e-11	6.8999e-11
271	6.8997e-11	6.8997e-11	6.8997e-11
272	6.8996e-11	6.8996e-11	6.8996e-11
273	6.8995e-11	6.8995e-11	6.8995e-11
274	6.8993e-11	6.8994e-11	6.8994e-11
275	6.8992e-11	6.8993e-11	6.8993e-11
276	6.8991e-11	6.8992e-11	6.8992e-11
277	6.8990e-11	6.8990e-11	6.8990e-11
278	6.8989e-11	6.8989e-11	6.8989e-11
279	6.8988e-11	6.8988e-11	6.8988e-11
280	6.8986e-11	6.8987e-11	6.8987e-11
281	6.8985e-11	6.8986e-11	6.8986e-11
282	6.8984e-11	6.8985e-11	6.8985e-11
283	6.8983e-11	6.8983e-11	6.8983e-11
284	6.8982e-11	6.8982e-11	6.8982e-11
285	6.8981e-11	6.8981e-11	6.8981e-11
286	6.8979e-11	6.8980e-11	6.8980e-11
287	6.8978e-11	6.8979e-11	6.8979e-11
288	6.8977e-11	6.8978e-11	6.8978e-11
289	6.8976e-11	6.8976e-11	6.8976e-11
290	6.8975e-11	6.8975e-11	6.8975e-11
291	6.8974e-11	6.8974e-11	6.8974e-11
292	6.8972e-11	6.8973e-11	6.8973e-11
293	6.8971e-11	6.8972e-11	6.8972e-11
294	6.8970e-11	6.8971e-11	6.8971e-11
295	6.8969e-11	6.8969e-11	6.8969e-11
296	6.8968e-11	6.8968e-11	6.8968e-11
297	6.8967e-11	6.8967e-11	6.8967e-11
298	6.8965e-11	6.8966e-11	6.8966e-11

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x	$A(x)$	P_{v1}	P_{v2}
299	6.8964e-11	6.8965e-11	6.8965e-11
300	6.8963e-11	6.8964e-11	6.8964e-11
301	6.8962e-11	6.8962e-11	6.8962e-11
302	6.8961e-11	6.8961e-11	6.8961e-11
303	6.8959e-11	6.8960e-11	6.8960e-11
304	6.8958e-11	6.8959e-11	6.8959e-11
305	6.8957e-11	6.8958e-11	6.8958e-11
306	6.8956e-11	6.8957e-11	6.8957e-11
307	6.8955e-11	6.8955e-11	6.8955e-11
308	6.8954e-11	6.8954e-11	6.8954e-11
309	6.8952e-11	6.8953e-11	6.8953e-11
310	6.8951e-11	6.8952e-11	6.8952e-11
311	6.8950e-11	6.8951e-11	6.8951e-11
312	6.8949e-11	6.8949e-11	6.8949e-11
313	6.8948e-11	6.8948e-11	6.8948e-11
314	6.8947e-11	6.8947e-11	6.8947e-11
315	6.8945e-11	6.8946e-11	6.8946e-11
316	6.8944e-11	6.8945e-11	6.8945e-11
317	6.8943e-11	6.8944e-11	6.8944e-11
318	6.8942e-11	6.8942e-11	6.8942e-11
319	6.8941e-11	6.8941e-11	6.8941e-11
320	6.8940e-11	6.8940e-11	6.8940e-11
321	6.8938e-11	6.8939e-11	6.8939e-11
322	6.8937e-11	6.8938e-11	6.8938e-11
323	6.8936e-11	6.8937e-11	6.8937e-11
324	6.8935e-11	6.8935e-11	6.8935e-11
325	6.8934e-11	6.8934e-11	6.8934e-11
326	6.8933e-11	6.8933e-11	6.8933e-11
327	6.8931e-11	6.8932e-11	6.8932e-11
328	6.8930e-11	6.8931e-11	6.8931e-11
329	6.8929e-11	6.8930e-11	6.8930e-11
330	6.8928e-11	6.8928e-11	6.8928e-11
331	6.8927e-11	6.8927e-11	6.8927e-11
332	6.8926e-11	6.8926e-11	6.8926e-11
333	6.8924e-11	6.8925e-11	6.8925e-11
334	6.8923e-11	6.8924e-11	6.8924e-11
335	6.8922e-11	6.8923e-11	6.8923e-11
336	6.8921e-11	6.8921e-11	6.8921e-11
337	6.8920e-11	6.8920e-11	6.8920e-11
338	6.8919e-11	6.8919e-11	6.8919e-11

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x	$A(x)$	P_{v1}	P_{v2}
339	6.8917e-11	6.8918e-11	6.8918e-11
340	6.8916e-11	6.8917e-11	6.8917e-11
341	6.8915e-11	6.8916e-11	6.8916e-11
342	6.8914e-11	6.8914e-11	6.8914e-11
343	6.8913e-11	6.8913e-11	6.8913e-11
344	6.8911e-11	6.8912e-11	6.8912e-11
345	6.8910e-11	6.8911e-11	6.8911e-11
346	6.8909e-11	6.8910e-11	6.8910e-11
347	6.8908e-11	6.8909e-11	6.8909e-11
348	6.8907e-11	6.8907e-11	6.8907e-11
349	6.8906e-11	6.8906e-11	6.8906e-11
350	6.8904e-11	6.8905e-11	6.8905e-11
351	6.8903e-11	6.8904e-11	6.8904e-11
352	6.8902e-11	6.8903e-11	6.8903e-11
353	6.8901e-11	6.8902e-11	6.8902e-11
354	6.8900e-11	6.8900e-11	6.8900e-11
355	6.8899e-11	6.8899e-11	6.8899e-11
356	6.8897e-11	6.8898e-11	6.8898e-11
357	6.8896e-11	6.8897e-11	6.8897e-11
358	6.8895e-11	6.8896e-11	6.8896e-11
359	6.8894e-11	6.8895e-11	6.8895e-11
360	6.8893e-11	6.8893e-11	6.8893e-11
361	6.8892e-11	6.8892e-11	6.8892e-11
362	6.8890e-11	6.8891e-11	6.8891e-11
363	6.8889e-11	6.8890e-11	6.8890e-11
364	6.8888e-11	6.8889e-11	6.8889e-11
365	6.8887e-11	6.8888e-11	6.8888e-11
366	6.8886e-11	6.8886e-11	6.8886e-11
367	6.8885e-11	6.8885e-11	6.8885e-11
368	6.8883e-11	6.8884e-11	6.8884e-11
369	6.8882e-11	6.8883e-11	6.8883e-11
370	6.8881e-11	6.8882e-11	6.8882e-11
371	6.8880e-11	6.8881e-11	6.8881e-11
372	6.8879e-11	6.8879e-11	6.8879e-11
373	6.8878e-11	6.8878e-11	6.8878e-11
374	6.8876e-11	6.8877e-11	6.8877e-11
375	6.8875e-11	6.8876e-11	6.8876e-11
376	6.8874e-11	6.8875e-11	6.8875e-11
377	6.8873e-11	6.8873e-11	6.8873e-11
378	6.8872e-11	6.8872e-11	6.8872e-11

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x	$A(x)$	P_{v1}	P_{v2}
379	6.8871e-11	6.8871e-11	6.8871e-11
380	6.8869e-11	6.8870e-11	6.8870e-11
381	6.8868e-11	6.8869e-11	6.8869e-11
382	6.8867e-11	6.8868e-11	6.8868e-11
383	6.8866e-11	6.8866e-11	6.8866e-11
384	6.8865e-11	6.8865e-11	6.8865e-11
385	6.8863e-11	6.8864e-11	6.8864e-11
386	6.8862e-11	6.8863e-11	6.8863e-11
387	6.8861e-11	6.8862e-11	6.8862e-11
388	6.8860e-11	6.8861e-11	6.8861e-11
389	6.8859e-11	6.8859e-11	6.8859e-11
390	6.8858e-11	6.8858e-11	6.8858e-11
391	6.8856e-11	6.8857e-11	6.8857e-11
392	6.8855e-11	6.8856e-11	6.8856e-11
393	6.8854e-11	6.8855e-11	6.8855e-11
394	6.8853e-11	6.8854e-11	6.8854e-11
395	6.8852e-11	6.8852e-11	6.8852e-11
396	6.8851e-11	6.8851e-11	6.8851e-11
397	6.8849e-11	6.8850e-11	6.8850e-11
398	6.8848e-11	6.8849e-11	6.8849e-11
399	6.8847e-11	6.8848e-11	6.8848e-11
400	6.8846e-11	6.8847e-11	6.8847e-11
401	6.8845e-11	6.8845e-11	6.8845e-11
402	6.8844e-11	6.8844e-11	6.8844e-11
403	6.8842e-11	6.8843e-11	6.8843e-11
404	6.8841e-11	6.8842e-11	6.8842e-11
405	6.8840e-11	6.8841e-11	6.8841e-11
406	6.8839e-11	6.8840e-11	6.8840e-11
407	6.8838e-11	6.8838e-11	6.8838e-11
408	6.8837e-11	6.8837e-11	6.8837e-11
409	6.8835e-11	6.8836e-11	6.8836e-11
410	6.8834e-11	6.8835e-11	6.8835e-11
411	6.8833e-11	6.8834e-11	6.8834e-11
412	6.8832e-11	6.8833e-11	6.8833e-11
413	6.8831e-11	6.8831e-11	6.8831e-11
414	6.8830e-11	6.8830e-11	6.8830e-11
415	6.8828e-11	6.8829e-11	6.8829e-11
416	6.8827e-11	6.8828e-11	6.8828e-11
417	6.8826e-11	6.8827e-11	6.8827e-11
418	6.8825e-11	6.8826e-11	6.8826e-11

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x	$A(x)$	P_{v1}	P_{v2}
419	6.8824e-11	6.8824e-11	6.8824e-11
420	6.8823e-11	6.8823e-11	6.8823e-11
421	6.8821e-11	6.8822e-11	6.8822e-11
422	6.8820e-11	6.8821e-11	6.8821e-11
423	6.8819e-11	6.8820e-11	6.8820e-11
424	6.8818e-11	6.8819e-11	6.8819e-11
425	6.8817e-11	6.8817e-11	6.8817e-11
426	6.8816e-11	6.8816e-11	6.8816e-11
427	6.8814e-11	6.8815e-11	6.8815e-11
428	6.8813e-11	6.8814e-11	6.8814e-11
429	6.8812e-11	6.8813e-11	6.8813e-11
430	6.8811e-11	6.8812e-11	6.8812e-11
431	6.8810e-11	6.8810e-11	6.8810e-11
432	6.8808e-11	6.8809e-11	6.8809e-11
433	6.8807e-11	6.8808e-11	6.8808e-11
434	6.8806e-11	6.8807e-11	6.8807e-11
435	6.8805e-11	6.8806e-11	6.8806e-11
436	6.8804e-11	6.8805e-11	6.8805e-11
437	6.8803e-11	6.8803e-11	6.8803e-11
438	6.8801e-11	6.8802e-11	6.8802e-11
439	6.8800e-11	6.8801e-11	6.8801e-11
440	6.8799e-11	6.8800e-11	6.8800e-11
441	6.8798e-11	6.8799e-11	6.8799e-11
442	6.8797e-11	6.8798e-11	6.8798e-11
443	6.8796e-11	6.8796e-11	6.8796e-11
444	6.8794e-11	6.8795e-11	6.8795e-11
445	6.8793e-11	6.8794e-11	6.8794e-11
446	6.8792e-11	6.8793e-11	6.8793e-11
447	6.8791e-11	6.8792e-11	6.8792e-11
448	6.8790e-11	6.8791e-11	6.8791e-11
449	6.8789e-11	6.8789e-11	6.8789e-11
450	6.8787e-11	6.8788e-11	6.8788e-11
451	6.8786e-11	6.8787e-11	6.8787e-11
452	6.8785e-11	6.8786e-11	6.8786e-11
453	6.8784e-11	6.8785e-11	6.8785e-11
454	6.8783e-11	6.8784e-11	6.8784e-11
455	6.8782e-11	6.8782e-11	6.8782e-11
456	6.8780e-11	6.8781e-11	6.8781e-11
457	6.8779e-11	6.8780e-11	6.8780e-11
458	6.8778e-11	6.8779e-11	6.8779e-11

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x	$A(x)$	P_{v1}	P_{v2}
459	6.8777e-11	6.8778e-11	6.8778e-11
460	6.8776e-11	6.8777e-11	6.8777e-11
461	6.8775e-11	6.8775e-11	6.8775e-11
462	6.8773e-11	6.8774e-11	6.8774e-11
463	6.8772e-11	6.8773e-11	6.8773e-11
464	6.8771e-11	6.8772e-11	6.8772e-11
465	6.8770e-11	6.8771e-11	6.8771e-11
466	6.8769e-11	6.8770e-11	6.8770e-11
467	6.8768e-11	6.8768e-11	6.8768e-11
468	6.8766e-11	6.8767e-11	6.8767e-11
469	6.8765e-11	6.8766e-11	6.8766e-11
470	6.8764e-11	6.8765e-11	6.8765e-11
471	6.8763e-11	6.8764e-11	6.8764e-11
472	6.8762e-11	6.8763e-11	6.8763e-11
473	6.8761e-11	6.8761e-11	6.8761e-11
474	6.8759e-11	6.8760e-11	6.8760e-11
475	6.8758e-11	6.8759e-11	6.8759e-11
476	6.8757e-11	6.8758e-11	6.8758e-11
477	6.8756e-11	6.8757e-11	6.8757e-11
478	6.8755e-11	6.8756e-11	6.8756e-11
479	6.8753e-11	6.8754e-11	6.8754e-11
480	6.8752e-11	6.8753e-11	6.8753e-11
481	6.8751e-11	6.8752e-11	6.8752e-11
482	6.8750e-11	6.8751e-11	6.8751e-11
483	6.8749e-11	6.8750e-11	6.8750e-11
484	6.8748e-11	6.8749e-11	6.8749e-11
485	6.8746e-11	6.8747e-11	6.8747e-11
486	6.8745e-11	6.8746e-11	6.8746e-11
487	6.8744e-11	6.8745e-11	6.8745e-11
488	6.8743e-11	6.8744e-11	6.8744e-11
489	6.8742e-11	6.8743e-11	6.8743e-11
490	6.8741e-11	6.8742e-11	6.8742e-11
491	6.8739e-11	6.8740e-11	6.8740e-11
492	6.8738e-11	6.8739e-11	6.8739e-11
493	6.8737e-11	6.8738e-11	6.8738e-11
494	6.8736e-11	6.8737e-11	6.8737e-11
495	6.8735e-11	6.8736e-11	6.8736e-11
496	6.8734e-11	6.8735e-11	6.8735e-11
497	6.8732e-11	6.8733e-11	6.8733e-11
498	6.8731e-11	6.8732e-11	6.8732e-11

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x	$A(x)$	P_{v1}	P_{v2}
499	6.8730e-11	6.8731e-11	6.8731e-11
500	6.8729e-11	6.8730e-11	6.8730e-11
501	6.8728e-11	6.8729e-11	6.8729e-11
502	6.8727e-11	6.8728e-11	6.8728e-11
503	6.8725e-11	6.8726e-11	6.8726e-11
504	6.8724e-11	6.8725e-11	6.8725e-11
505	6.8723e-11	6.8724e-11	6.8724e-11
506	6.8722e-11	6.8723e-11	6.8723e-11
507	6.8721e-11	6.8722e-11	6.8722e-11
508	6.8720e-11	6.8721e-11	6.8721e-11
509	6.8718e-11	6.8719e-11	6.8719e-11
510	6.8717e-11	6.8718e-11	6.8718e-11
511	6.8716e-11	6.8717e-11	6.8717e-11
512	6.8715e-11	6.8716e-11	6.8716e-11
513	6.8714e-11	6.8715e-11	6.8715e-11
514	6.8713e-11	6.8714e-11	6.8714e-11
515	6.8711e-11	6.8712e-11	6.8712e-11
516	6.8710e-11	6.8711e-11	6.8711e-11
517	6.8709e-11	6.8710e-11	6.8710e-11
518	6.8708e-11	6.8709e-11	6.8709e-11
519	6.8707e-11	6.8708e-11	6.8708e-11
520	6.8706e-11	6.8707e-11	6.8707e-11
521	6.8704e-11	6.8705e-11	6.8705e-11
522	6.8703e-11	6.8704e-11	6.8704e-11
523	6.8702e-11	6.8703e-11	6.8703e-11
524	6.8701e-11	6.8702e-11	6.8702e-11
525	6.8700e-11	6.8701e-11	6.8701e-11
526	6.8699e-11	6.8700e-11	6.8700e-11
527	6.8697e-11	6.8698e-11	6.8698e-11
528	6.8696e-11	6.8697e-11	6.8697e-11
529	6.8695e-11	6.8696e-11	6.8696e-11
530	6.8694e-11	6.8695e-11	6.8695e-11
531	6.8693e-11	6.8694e-11	6.8694e-11
532	6.8692e-11	6.8693e-11	6.8693e-11
533	6.8690e-11	6.8691e-11	6.8691e-11
534	6.8689e-11	6.8690e-11	6.8690e-11
535	6.8688e-11	6.8689e-11	6.8689e-11
536	6.8687e-11	6.8688e-11	6.8688e-11
537	6.8686e-11	6.8687e-11	6.8687e-11
538	6.8685e-11	6.8686e-11	6.8686e-11

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x	$A(x)$	P_{v1}	P_{v2}
539	6.8683e-11	6.8684e-11	6.8684e-11
540	6.8682e-11	6.8683e-11	6.8683e-11
541	6.8681e-11	6.8682e-11	6.8682e-11
542	6.8680e-11	6.8681e-11	6.8681e-11
543	6.8679e-11	6.8680e-11	6.8680e-11
544	6.8677e-11	6.8679e-11	6.8679e-11
545	6.8676e-11	6.8677e-11	6.8677e-11
546	6.8675e-11	6.8676e-11	6.8676e-11
547	6.8674e-11	6.8675e-11	6.8675e-11
548	6.8673e-11	6.8674e-11	6.8674e-11
549	6.8672e-11	6.8673e-11	6.8673e-11
550	6.8670e-11	6.8672e-11	6.8672e-11
551	6.8669e-11	6.8670e-11	6.8670e-11
552	6.8668e-11	6.8669e-11	6.8669e-11
553	6.8667e-11	6.8668e-11	6.8668e-11
554	6.8666e-11	6.8667e-11	6.8667e-11
555	6.8665e-11	6.8666e-11	6.8666e-11
556	6.8663e-11	6.8665e-11	6.8665e-11
557	6.8662e-11	6.8663e-11	6.8663e-11
558	6.8661e-11	6.8662e-11	6.8662e-11
559	6.8660e-11	6.8661e-11	6.8661e-11
560	6.8659e-11	6.8660e-11	6.8660e-11
561	6.8658e-11	6.8659e-11	6.8659e-11
562	6.8656e-11	6.8658e-11	6.8658e-11
563	6.8655e-11	6.8656e-11	6.8656e-11
564	6.8654e-11	6.8655e-11	6.8655e-11
565	6.8653e-11	6.8654e-11	6.8654e-11
566	6.8652e-11	6.8653e-11	6.8653e-11
567	6.8651e-11	6.8652e-11	6.8652e-11
568	6.8649e-11	6.8651e-11	6.8651e-11
569	6.8648e-11	6.8649e-11	6.8649e-11
570	6.8647e-11	6.8648e-11	6.8648e-11
571	6.8646e-11	6.8647e-11	6.8647e-11
572	6.8645e-11	6.8646e-11	6.8646e-11
573	6.8644e-11	6.8645e-11	6.8645e-11
574	6.8642e-11	6.8644e-11	6.8644e-11
575	6.8641e-11	6.8642e-11	6.8642e-11
576	6.8640e-11	6.8641e-11	6.8641e-11
577	6.8639e-11	6.8640e-11	6.8640e-11
578	6.8638e-11	6.8639e-11	6.8639e-11

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x	$A(x)$	P_{v1}	P_{v2}
579	6.8637e-11	6.8638e-11	6.8638e-11
580	6.8635e-11	6.8637e-11	6.8637e-11
581	6.8634e-11	6.8635e-11	6.8635e-11
582	6.8633e-11	6.8634e-11	6.8634e-11
583	6.8632e-11	6.8633e-11	6.8633e-11
584	6.8631e-11	6.8632e-11	6.8632e-11
585	6.8630e-11	6.8631e-11	6.8631e-11
586	6.8628e-11	6.8630e-11	6.8630e-11
587	6.8627e-11	6.8628e-11	6.8628e-11
588	6.8626e-11	6.8627e-11	6.8627e-11
589	6.8625e-11	6.8626e-11	6.8626e-11
590	6.8624e-11	6.8625e-11	6.8625e-11
591	6.8623e-11	6.8624e-11	6.8624e-11
592	6.8621e-11	6.8623e-11	6.8623e-11
593	6.8620e-11	6.8621e-11	6.8621e-11
594	6.8619e-11	6.8620e-11	6.8620e-11
595	6.8618e-11	6.8619e-11	6.8619e-11
596	6.8617e-11	6.8618e-11	6.8618e-11
597	6.8616e-11	6.8617e-11	6.8617e-11
598	6.8614e-11	6.8616e-11	6.8616e-11
599	6.8613e-11	6.8614e-11	6.8614e-11
600	6.8612e-11	6.8613e-11	6.8613e-11
601	6.8611e-11	6.8612e-11	6.8612e-11
602	6.8610e-11	6.8611e-11	6.8611e-11
603	6.8609e-11	6.8610e-11	6.8610e-11
604	6.8607e-11	6.8609e-11	6.8609e-11
605	6.8606e-11	6.8607e-11	6.8607e-11
606	6.8605e-11	6.8606e-11	6.8606e-11
607	6.8604e-11	6.8605e-11	6.8605e-11
608	6.8603e-11	6.8604e-11	6.8604e-11
609	6.8602e-11	6.8603e-11	6.8603e-11
610	6.8600e-11	6.8602e-11	6.8602e-11
611	6.8599e-11	6.8600e-11	6.8600e-11
612	6.8598e-11	6.8599e-11	6.8599e-11
613	6.8597e-11	6.8598e-11	6.8598e-11
614	6.8596e-11	6.8597e-11	6.8597e-11
615	6.8594e-11	6.8596e-11	6.8596e-11
616	6.8593e-11	6.8595e-11	6.8595e-11
617	6.8592e-11	6.8593e-11	6.8593e-11
618	6.8591e-11	6.8592e-11	6.8592e-11

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x	$A(x)$	P_{v1}	P_{v2}
619	6.8590e-11	6.8591e-11	6.8591e-11
620	6.8589e-11	6.8590e-11	6.8590e-11
621	6.8587e-11	6.8589e-11	6.8589e-11
622	6.8586e-11	6.8588e-11	6.8588e-11
623	6.8585e-11	6.8586e-11	6.8586e-11
624	6.8584e-11	6.8585e-11	6.8585e-11
625	6.8583e-11	6.8584e-11	6.8584e-11
626	6.8582e-11	6.8583e-11	6.8583e-11
627	6.8580e-11	6.8582e-11	6.8582e-11
628	6.8579e-11	6.8581e-11	6.8581e-11
629	6.8578e-11	6.8579e-11	6.8579e-11
630	6.8577e-11	6.8578e-11	6.8578e-11
631	6.8576e-11	6.8577e-11	6.8577e-11
632	6.8575e-11	6.8576e-11	6.8576e-11
633	6.8573e-11	6.8575e-11	6.8575e-11
634	6.8572e-11	6.8574e-11	6.8574e-11
635	6.8571e-11	6.8572e-11	6.8572e-11
636	6.8570e-11	6.8571e-11	6.8571e-11
637	6.8569e-11	6.8570e-11	6.8570e-11
638	6.8568e-11	6.8569e-11	6.8569e-11
639	6.8566e-11	6.8568e-11	6.8568e-11
640	6.8565e-11	6.8567e-11	6.8567e-11
641	6.8564e-11	6.8565e-11	6.8565e-11
642	6.8563e-11	6.8564e-11	6.8564e-11
643	6.8562e-11	6.8563e-11	6.8563e-11
644	6.8561e-11	6.8562e-11	6.8562e-11
645	6.8559e-11	6.8561e-11	6.8561e-11
646	6.8558e-11	6.8560e-11	6.8560e-11
647	6.8557e-11	6.8558e-11	6.8558e-11
648	6.8556e-11	6.8557e-11	6.8557e-11
649	6.8555e-11	6.8556e-11	6.8556e-11
650	6.8554e-11	6.8555e-11	6.8555e-11
651	6.8552e-11	6.8554e-11	6.8554e-11
652	6.8551e-11	6.8553e-11	6.8553e-11
653	6.8550e-11	6.8551e-11	6.8551e-11
654	6.8549e-11	6.8550e-11	6.8550e-11
655	6.8548e-11	6.8549e-11	6.8549e-11
656	6.8547e-11	6.8548e-11	6.8548e-11
657	6.8545e-11	6.8547e-11	6.8547e-11
658	6.8544e-11	6.8546e-11	6.8546e-11

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x	$A(x)$	P_{v1}	P_{v2}
659	6.8543e-11	6.8544e-11	6.8544e-11
660	6.8542e-11	6.8543e-11	6.8543e-11
661	6.8541e-11	6.8542e-11	6.8542e-11
662	6.8540e-11	6.8541e-11	6.8541e-11
663	6.8538e-11	6.8540e-11	6.8540e-11
664	6.8537e-11	6.8539e-11	6.8539e-11
665	6.8536e-11	6.8537e-11	6.8537e-11
666	6.8535e-11	6.8536e-11	6.8536e-11
667	6.8534e-11	6.8535e-11	6.8535e-11
668	6.8533e-11	6.8534e-11	6.8534e-11
669	6.8531e-11	6.8533e-11	6.8533e-11
670	6.8530e-11	6.8532e-11	6.8532e-11
671	6.8529e-11	6.8530e-11	6.8530e-11
672	6.8528e-11	6.8529e-11	6.8529e-11
673	6.8527e-11	6.8528e-11	6.8528e-11
674	6.8526e-11	6.8527e-11	6.8527e-11
675	6.8524e-11	6.8526e-11	6.8526e-11
676	6.8523e-11	6.8525e-11	6.8525e-11
677	6.8522e-11	6.8523e-11	6.8523e-11
678	6.8521e-11	6.8522e-11	6.8522e-11
679	6.8520e-11	6.8521e-11	6.8521e-11
680	6.8519e-11	6.8520e-11	6.8520e-11
681	6.8517e-11	6.8519e-11	6.8519e-11
682	6.8516e-11	6.8518e-11	6.8518e-11
683	6.8515e-11	6.8516e-11	6.8516e-11
684	6.8514e-11	6.8515e-11	6.8515e-11
685	6.8513e-11	6.8514e-11	6.8514e-11
686	6.8512e-11	6.8513e-11	6.8513e-11
687	6.8510e-11	6.8512e-11	6.8512e-11
688	6.8509e-11	6.8511e-11	6.8511e-11
689	6.8508e-11	6.8509e-11	6.8509e-11
690	6.8507e-11	6.8508e-11	6.8508e-11
691	6.8506e-11	6.8507e-11	6.8507e-11
692	6.8505e-11	6.8506e-11	6.8506e-11
693	6.8503e-11	6.8505e-11	6.8505e-11
694	6.8502e-11	6.8504e-11	6.8504e-11
695	6.8501e-11	6.8503e-11	6.8503e-11
696	6.8500e-11	6.8501e-11	6.8501e-11
697	6.8499e-11	6.8500e-11	6.8500e-11
698	6.8498e-11	6.8499e-11	6.8499e-11

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x	$A(x)$	P_{v1}	P_{v2}
699	6.8496e-11	6.8498e-11	6.8498e-11
700	6.8495e-11	6.8497e-11	6.8497e-11
701	6.8494e-11	6.8496e-11	6.8496e-11
702	6.8493e-11	6.8494e-11	6.8494e-11
703	6.8492e-11	6.8493e-11	6.8493e-11
704	6.8491e-11	6.8492e-11	6.8492e-11
705	6.8489e-11	6.8491e-11	6.8491e-11
706	6.8488e-11	6.8490e-11	6.8490e-11
707	6.8487e-11	6.8489e-11	6.8489e-11
708	6.8486e-11	6.8487e-11	6.8487e-11
709	6.8485e-11	6.8486e-11	6.8486e-11
710	6.8484e-11	6.8485e-11	6.8485e-11
711	6.8482e-11	6.8484e-11	6.8484e-11
712	6.8481e-11	6.8483e-11	6.8483e-11
713	6.8480e-11	6.8482e-11	6.8482e-11
714	6.8479e-11	6.8480e-11	6.8480e-11
715	6.8478e-11	6.8479e-11	6.8479e-11
716	6.8477e-11	6.8478e-11	6.8478e-11
717	6.8475e-11	6.8477e-11	6.8477e-11
718	6.8474e-11	6.8476e-11	6.8476e-11
719	6.8473e-11	6.8475e-11	6.8475e-11
720	6.8472e-11	6.8473e-11	6.8473e-11
721	6.8471e-11	6.8472e-11	6.8472e-11
722	6.8470e-11	6.8471e-11	6.8471e-11
723	6.8468e-11	6.8470e-11	6.8470e-11
724	6.8467e-11	6.8469e-11	6.8469e-11
725	6.8466e-11	6.8468e-11	6.8468e-11
726	6.8465e-11	6.8466e-11	6.8466e-11
727	6.8464e-11	6.8465e-11	6.8465e-11
728	6.8462e-11	6.8464e-11	6.8464e-11
729	6.8461e-11	6.8463e-11	6.8463e-11
730	6.8460e-11	6.8462e-11	6.8462e-11
731	6.8459e-11	6.8461e-11	6.8461e-11
732	6.8458e-11	6.8459e-11	6.8459e-11
733	6.8457e-11	6.8458e-11	6.8458e-11
734	6.8455e-11	6.8457e-11	6.8457e-11
735	6.8454e-11	6.8456e-11	6.8456e-11
736	6.8453e-11	6.8455e-11	6.8455e-11
737	6.8452e-11	6.8454e-11	6.8454e-11
738	6.8451e-11	6.8452e-11	6.8452e-11

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x	$A(x)$	P_{v1}	P_{v2}
739	6.8450e-11	6.8451e-11	6.8451e-11
740	6.8448e-11	6.8450e-11	6.8450e-11
741	6.8447e-11	6.8449e-11	6.8449e-11
742	6.8446e-11	6.8448e-11	6.8448e-11
743	6.8445e-11	6.8447e-11	6.8447e-11
744	6.8444e-11	6.8445e-11	6.8445e-11
745	6.8443e-11	6.8444e-11	6.8444e-11
746	6.8441e-11	6.8443e-11	6.8443e-11
747	6.8440e-11	6.8442e-11	6.8442e-11
748	6.8439e-11	6.8441e-11	6.8441e-11
749	6.8438e-11	6.8440e-11	6.8440e-11
750	6.8437e-11	6.8438e-11	6.8438e-11
751	6.8436e-11	6.8437e-11	6.8437e-11
752	6.8434e-11	6.8436e-11	6.8436e-11
753	6.8433e-11	6.8435e-11	6.8435e-11
754	6.8432e-11	6.8434e-11	6.8434e-11
755	6.8431e-11	6.8433e-11	6.8433e-11
756	6.8430e-11	6.8431e-11	6.8431e-11
757	6.8429e-11	6.8430e-11	6.8430e-11
758	6.8427e-11	6.8429e-11	6.8429e-11
759	6.8426e-11	6.8428e-11	6.8428e-11
760	6.8425e-11	6.8427e-11	6.8427e-11
761	6.8424e-11	6.8426e-11	6.8426e-11
762	6.8423e-11	6.8425e-11	6.8425e-11
763	6.8422e-11	6.8423e-11	6.8423e-11
764	6.8420e-11	6.8422e-11	6.8422e-11
765	6.8419e-11	6.8421e-11	6.8421e-11
766	6.8418e-11	6.8420e-11	6.8420e-11
767	6.8417e-11	6.8419e-11	6.8419e-11
768	6.8416e-11	6.8418e-11	6.8418e-11
769	6.8415e-11	6.8416e-11	6.8416e-11
770	6.8413e-11	6.8415e-11	6.8415e-11
771	6.8412e-11	6.8414e-11	6.8414e-11
772	6.8411e-11	6.8413e-11	6.8413e-11
773	6.8410e-11	6.8412e-11	6.8412e-11
774	6.8409e-11	6.8411e-11	6.8411e-11
775	6.8408e-11	6.8409e-11	6.8409e-11
776	6.8406e-11	6.8408e-11	6.8408e-11
777	6.8405e-11	6.8407e-11	6.8407e-11
778	6.8404e-11	6.8406e-11	6.8406e-11

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x	$A(x)$	P_{v1}	P_{v2}
779	6.8403e-11	6.8405e-11	6.8405e-11
780	6.8402e-11	6.8404e-11	6.8404e-11
781	6.8401e-11	6.8402e-11	6.8402e-11
782	6.8399e-11	6.8401e-11	6.8401e-11
783	6.8398e-11	6.8400e-11	6.8400e-11
784	6.8397e-11	6.8399e-11	6.8399e-11
785	6.8396e-11	6.8398e-11	6.8398e-11
786	6.8395e-11	6.8397e-11	6.8397e-11
787	6.8394e-11	6.8395e-11	6.8395e-11
788	6.8392e-11	6.8394e-11	6.8394e-11
789	6.8391e-11	6.8393e-11	6.8393e-11
790	6.8390e-11	6.8392e-11	6.8392e-11
791	6.8389e-11	6.8391e-11	6.8391e-11
792	6.8388e-11	6.8390e-11	6.8390e-11
793	6.8387e-11	6.8388e-11	6.8388e-11
794	6.8385e-11	6.8387e-11	6.8387e-11
795	6.8384e-11	6.8386e-11	6.8386e-11
796	6.8383e-11	6.8385e-11	6.8385e-11
797	6.8382e-11	6.8384e-11	6.8384e-11
798	6.8381e-11	6.8383e-11	6.8383e-11
799	6.8380e-11	6.8381e-11	6.8381e-11
800	6.8378e-11	6.8380e-11	6.8380e-11
801	6.8377e-11	6.8379e-11	6.8379e-11
802	6.8376e-11	6.8378e-11	6.8378e-11
803	6.8375e-11	6.8377e-11	6.8377e-11
804	6.8374e-11	6.8376e-11	6.8376e-11
805	6.8373e-11	6.8374e-11	6.8374e-11
806	6.8371e-11	6.8373e-11	6.8373e-11
807	6.8370e-11	6.8372e-11	6.8372e-11
808	6.8369e-11	6.8371e-11	6.8371e-11
809	6.8368e-11	6.8370e-11	6.8370e-11
810	6.8367e-11	6.8369e-11	6.8369e-11
811	6.8366e-11	6.8368e-11	6.8368e-11
812	6.8364e-11	6.8366e-11	6.8366e-11
813	6.8363e-11	6.8365e-11	6.8365e-11
814	6.8362e-11	6.8364e-11	6.8364e-11
815	6.8361e-11	6.8363e-11	6.8363e-11
816	6.8360e-11	6.8362e-11	6.8362e-11
817	6.8359e-11	6.8361e-11	6.8361e-11
818	6.8357e-11	6.8359e-11	6.8359e-11

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x	$A(x)$	P_{v1}	P_{v2}
819	6.8356e-11	6.8358e-11	6.8358e-11
820	6.8355e-11	6.8357e-11	6.8357e-11
821	6.8354e-11	6.8356e-11	6.8356e-11
822	6.8353e-11	6.8355e-11	6.8355e-11
823	6.8352e-11	6.8354e-11	6.8354e-11
824	6.8350e-11	6.8352e-11	6.8352e-11
825	6.8349e-11	6.8351e-11	6.8351e-11
826	6.8348e-11	6.8350e-11	6.8350e-11
827	6.8347e-11	6.8349e-11	6.8349e-11
828	6.8346e-11	6.8348e-11	6.8348e-11
829	6.8345e-11	6.8347e-11	6.8347e-11
830	6.8343e-11	6.8345e-11	6.8345e-11
831	6.8342e-11	6.8344e-11	6.8344e-11
832	6.8341e-11	6.8343e-11	6.8343e-11
833	6.8340e-11	6.8342e-11	6.8342e-11
834	6.8339e-11	6.8341e-11	6.8341e-11
835	6.8338e-11	6.8340e-11	6.8340e-11
836	6.8336e-11	6.8338e-11	6.8338e-11
837	6.8335e-11	6.8337e-11	6.8337e-11
838	6.8334e-11	6.8336e-11	6.8336e-11
839	6.8333e-11	6.8335e-11	6.8335e-11
840	6.8332e-11	6.8334e-11	6.8334e-11
841	6.8331e-11	6.8333e-11	6.8333e-11
842	6.8329e-11	6.8331e-11	6.8331e-11
843	6.8328e-11	6.8330e-11	6.8330e-11
844	6.8327e-11	6.8329e-11	6.8329e-11
845	6.8326e-11	6.8328e-11	6.8328e-11
846	6.8325e-11	6.8327e-11	6.8327e-11
847	6.8324e-11	6.8326e-11	6.8326e-11
848	6.8322e-11	6.8324e-11	6.8324e-11
849	6.8321e-11	6.8323e-11	6.8323e-11
850	6.8320e-11	6.8322e-11	6.8322e-11
851	6.8319e-11	6.8321e-11	6.8321e-11
852	6.8318e-11	6.8320e-11	6.8320e-11
853	6.8317e-11	6.8319e-11	6.8319e-11
854	6.8315e-11	6.8318e-11	6.8318e-11
855	6.8314e-11	6.8316e-11	6.8316e-11
856	6.8313e-11	6.8315e-11	6.8315e-11
857	6.8312e-11	6.8314e-11	6.8314e-11
858	6.8311e-11	6.8313e-11	6.8313e-11

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x	$A(x)$	P_{v1}	P_{v2}
859	6.8310e-11	6.8312e-11	6.8312e-11
860	6.8308e-11	6.8311e-11	6.8311e-11
861	6.8307e-11	6.8309e-11	6.8309e-11
862	6.8306e-11	6.8308e-11	6.8308e-11
863	6.8305e-11	6.8307e-11	6.8307e-11
864	6.8304e-11	6.8306e-11	6.8306e-11
865	6.8303e-11	6.8305e-11	6.8305e-11
866	6.8301e-11	6.8304e-11	6.8304e-11
867	6.8300e-11	6.8302e-11	6.8302e-11
868	6.8299e-11	6.8301e-11	6.8301e-11
869	6.8298e-11	6.8300e-11	6.8300e-11
870	6.8297e-11	6.8299e-11	6.8299e-11
871	6.8296e-11	6.8298e-11	6.8298e-11
872	6.8294e-11	6.8297e-11	6.8297e-11
873	6.8293e-11	6.8295e-11	6.8295e-11
874	6.8292e-11	6.8294e-11	6.8294e-11
875	6.8291e-11	6.8293e-11	6.8293e-11
876	6.8290e-11	6.8292e-11	6.8292e-11
877	6.8289e-11	6.8291e-11	6.8291e-11
878	6.8287e-11	6.8290e-11	6.8290e-11
879	6.8286e-11	6.8288e-11	6.8288e-11
880	6.8285e-11	6.8287e-11	6.8287e-11
881	6.8284e-11	6.8286e-11	6.8286e-11
882	6.8283e-11	6.8285e-11	6.8285e-11
883	6.8282e-11	6.8284e-11	6.8284e-11
884	6.8280e-11	6.8283e-11	6.8283e-11
885	6.8279e-11	6.8281e-11	6.8281e-11
886	6.8278e-11	6.8280e-11	6.8280e-11
887	6.8277e-11	6.8279e-11	6.8279e-11
888	6.8276e-11	6.8278e-11	6.8278e-11
889	6.8275e-11	6.8277e-11	6.8277e-11
890	6.8273e-11	6.8276e-11	6.8276e-11
891	6.8272e-11	6.8275e-11	6.8275e-11
892	6.8271e-11	6.8273e-11	6.8273e-11
893	6.8270e-11	6.8272e-11	6.8272e-11
894	6.8269e-11	6.8271e-11	6.8271e-11
895	6.8268e-11	6.8270e-11	6.8270e-11
896	6.8266e-11	6.8269e-11	6.8269e-11
897	6.8265e-11	6.8268e-11	6.8268e-11
898	6.8264e-11	6.8266e-11	6.8266e-11

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x	$A(x)$	P_{v1}	P_{v2}
899	6.8263e-11	6.8265e-11	6.8265e-11
900	6.8262e-11	6.8264e-11	6.8264e-11
901	6.8261e-11	6.8263e-11	6.8263e-11
902	6.8259e-11	6.8262e-11	6.8262e-11
903	6.8258e-11	6.8261e-11	6.8261e-11
904	6.8257e-11	6.8259e-11	6.8259e-11
905	6.8256e-11	6.8258e-11	6.8258e-11
906	6.8255e-11	6.8257e-11	6.8257e-11
907	6.8254e-11	6.8256e-11	6.8256e-11
908	6.8252e-11	6.8255e-11	6.8255e-11
909	6.8251e-11	6.8254e-11	6.8254e-11
910	6.8250e-11	6.8252e-11	6.8252e-11
911	6.8249e-11	6.8251e-11	6.8251e-11
912	6.8248e-11	6.8250e-11	6.8250e-11
913	6.8247e-11	6.8249e-11	6.8249e-11
914	6.8245e-11	6.8248e-11	6.8248e-11
915	6.8244e-11	6.8247e-11	6.8247e-11
916	6.8243e-11	6.8245e-11	6.8245e-11
917	6.8242e-11	6.8244e-11	6.8244e-11
918	6.8241e-11	6.8243e-11	6.8243e-11
919	6.8240e-11	6.8242e-11	6.8242e-11
920	6.8238e-11	6.8241e-11	6.8241e-11
921	6.8237e-11	6.8240e-11	6.8240e-11
922	6.8236e-11	6.8238e-11	6.8238e-11
923	6.8235e-11	6.8237e-11	6.8237e-11
924	6.8234e-11	6.8236e-11	6.8236e-11
925	6.8233e-11	6.8235e-11	6.8235e-11
926	6.8231e-11	6.8234e-11	6.8234e-11
927	6.8230e-11	6.8233e-11	6.8233e-11
928	6.8229e-11	6.8232e-11	6.8232e-11
929	6.8228e-11	6.8230e-11	6.8230e-11
930	6.8227e-11	6.8229e-11	6.8229e-11
931	6.8226e-11	6.8228e-11	6.8228e-11
932	6.8224e-11	6.8227e-11	6.8227e-11
933	6.8223e-11	6.8226e-11	6.8226e-11
934	6.8222e-11	6.8225e-11	6.8225e-11
935	6.8221e-11	6.8223e-11	6.8223e-11
936	6.8220e-11	6.8222e-11	6.8222e-11
937	6.8219e-11	6.8221e-11	6.8221e-11
938	6.8217e-11	6.8220e-11	6.8220e-11

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x	$A(x)$	P_{v1}	P_{v2}
939	6.8216e-11	6.8219e-11	6.8219e-11
940	6.8215e-11	6.8218e-11	6.8218e-11
941	6.8214e-11	6.8216e-11	6.8216e-11
942	6.8213e-11	6.8215e-11	6.8215e-11
943	6.8212e-11	6.8214e-11	6.8214e-11
944	6.8210e-11	6.8213e-11	6.8213e-11
945	6.8209e-11	6.8212e-11	6.8212e-11
946	6.8208e-11	6.8211e-11	6.8211e-11
947	6.8207e-11	6.8209e-11	6.8209e-11
948	6.8206e-11	6.8208e-11	6.8208e-11
949	6.8205e-11	6.8207e-11	6.8207e-11
950	6.8203e-11	6.8206e-11	6.8206e-11
951	6.8202e-11	6.8205e-11	6.8205e-11
952	6.8201e-11	6.8204e-11	6.8204e-11
953	6.8200e-11	6.8202e-11	6.8202e-11
954	6.8199e-11	6.8201e-11	6.8201e-11
955	6.8198e-11	6.8200e-11	6.8200e-11
956	6.8196e-11	6.8199e-11	6.8199e-11
957	6.8195e-11	6.8198e-11	6.8198e-11
958	6.8194e-11	6.8197e-11	6.8197e-11
959	6.8193e-11	6.8196e-11	6.8196e-11
960	6.8192e-11	6.8194e-11	6.8194e-11
961	6.8191e-11	6.8193e-11	6.8193e-11
962	6.8189e-11	6.8192e-11	6.8192e-11
963	6.8188e-11	6.8191e-11	6.8191e-11
964	6.8187e-11	6.8190e-11	6.8190e-11
965	6.8186e-11	6.8189e-11	6.8189e-11
966	6.8185e-11	6.8187e-11	6.8187e-11
967	6.8184e-11	6.8186e-11	6.8186e-11
968	6.8182e-11	6.8185e-11	6.8185e-11
969	6.8181e-11	6.8184e-11	6.8184e-11
970	6.8180e-11	6.8183e-11	6.8183e-11
971	6.8179e-11	6.8182e-11	6.8182e-11
972	6.8178e-11	6.8180e-11	6.8180e-11
973	6.8177e-11	6.8179e-11	6.8179e-11
974	6.8175e-11	6.8178e-11	6.8178e-11
975	6.8174e-11	6.8177e-11	6.8177e-11
976	6.8173e-11	6.8176e-11	6.8176e-11
977	6.8172e-11	6.8175e-11	6.8175e-11
978	6.8171e-11	6.8173e-11	6.8173e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
979	6.8170e-11	6.8172e-11	6.8172e-11
980	6.8168e-11	6.8171e-11	6.8171e-11
981	6.8167e-11	6.8170e-11	6.8170e-11
982	6.8166e-11	6.8169e-11	6.8169e-11
983	6.8165e-11	6.8168e-11	6.8168e-11
984	6.8164e-11	6.8166e-11	6.8166e-11
985	6.8163e-11	6.8165e-11	6.8165e-11
986	6.8162e-11	6.8164e-11	6.8164e-11
987	6.8160e-11	6.8163e-11	6.8163e-11
988	6.8159e-11	6.8162e-11	6.8162e-11
989	6.8158e-11	6.8161e-11	6.8161e-11
990	6.8157e-11	6.8160e-11	6.8160e-11
991	6.8156e-11	6.8158e-11	6.8158e-11
992	6.8155e-11	6.8157e-11	6.8157e-11
993	6.8153e-11	6.8156e-11	6.8156e-11
994	6.8152e-11	6.8155e-11	6.8155e-11
995	6.8151e-11	6.8154e-11	6.8154e-11
996	6.8150e-11	6.8153e-11	6.8153e-11
997	6.8149e-11	6.8151e-11	6.8151e-11
998	6.8148e-11	6.8150e-11	6.8150e-11
999	6.8146e-11	6.8149e-11	6.8149e-11
1000	6.8145e-11	6.8148e-11	6.8148e-11

Table B.7.23: Output for Problem 7.3.5-DIST-C

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	9.9999e-11	9.9993e-11	9.9993e-11
2	9.9999e-11	9.9998e-11	9.9998e-11
3	9.9999e-11	9.9997e-11	9.9997e-11
4	9.9999e-11	9.9996e-11	9.9996e-11
5	9.9999e-11	9.9995e-11	9.9995e-11
6	9.9999e-11	9.9995e-11	9.9995e-11
7	9.9999e-11	9.9994e-11	9.9994e-11
8	9.9999e-11	9.9993e-11	9.9993e-11
9	9.9999e-11	9.9993e-11	9.9993e-11
10	9.9999e-11	9.9992e-11	9.9992e-11
11	9.9999e-11	9.9991e-11	9.9991e-11
12	9.9999e-11	9.9991e-11	9.9991e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
13	9.9999e-11	9.9990e-11	9.9990e-11
14	9.9999e-11	9.9989e-11	9.9989e-11
15	9.9999e-11	9.9989e-11	9.9989e-11
16	9.9999e-11	9.9988e-11	9.9988e-11
17	9.9999e-11	9.9987e-11	9.9987e-11
18	9.9999e-11	9.9986e-11	9.9986e-11
19	9.9999e-11	9.9986e-11	9.9986e-11
20	9.9999e-11	9.9985e-11	9.9985e-11
21	9.9999e-11	9.9984e-11	9.9984e-11
22	9.9999e-11	9.9984e-11	9.9984e-11
23	9.9999e-11	9.9983e-11	9.9983e-11
24	9.9999e-11	9.9982e-11	9.9982e-11
25	9.9999e-11	9.9982e-11	9.9982e-11
26	9.9999e-11	9.9981e-11	9.9981e-11
27	9.9999e-11	9.9980e-11	9.9980e-11
28	9.9999e-11	9.9979e-11	9.9979e-11
29	9.9999e-11	9.9979e-11	9.9979e-11
30	9.9999e-11	9.9978e-11	9.9978e-11
31	9.9999e-11	9.9977e-11	9.9977e-11
32	9.9999e-11	9.9977e-11	9.9977e-11
33	9.9999e-11	9.9976e-11	9.9976e-11
34	9.9999e-11	9.9975e-11	9.9975e-11
35	9.9999e-11	9.9975e-11	9.9975e-11
36	9.9999e-11	9.9974e-11	9.9974e-11
37	9.9999e-11	9.9973e-11	9.9973e-11
38	9.9999e-11	9.9973e-11	9.9973e-11
39	9.9999e-11	9.9972e-11	9.9972e-11
40	9.9999e-11	9.9971e-11	9.9971e-11
41	9.9999e-11	9.9970e-11	9.9970e-11
42	9.9999e-11	9.9970e-11	9.9970e-11
43	9.9999e-11	9.9969e-11	9.9969e-11
44	9.9999e-11	9.9968e-11	9.9968e-11
45	9.9999e-11	9.9968e-11	9.9968e-11
46	9.9999e-11	9.9967e-11	9.9967e-11
47	9.9999e-11	9.9966e-11	9.9966e-11
48	9.9999e-11	9.9966e-11	9.9966e-11
49	9.9999e-11	9.9965e-11	9.9965e-11
50	9.9999e-11	9.9964e-11	9.9964e-11
51	9.9999e-11	9.9964e-11	9.9964e-11
52	9.9999e-11	9.9963e-11	9.9963e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
53	9.9999e-11	9.9962e-11	9.9962e-11
54	9.9999e-11	9.9961e-11	9.9961e-11
55	9.9999e-11	9.9961e-11	9.9961e-11
56	9.9999e-11	9.9960e-11	9.9960e-11
57	9.9999e-11	9.9959e-11	9.9959e-11
58	9.9999e-11	9.9959e-11	9.9959e-11
59	9.9999e-11	9.9958e-11	9.9958e-11
60	9.9999e-11	9.9957e-11	9.9957e-11
61	9.9999e-11	9.9957e-11	9.9957e-11
62	9.9999e-11	9.9956e-11	9.9956e-11
63	9.9999e-11	9.9955e-11	9.9955e-11
64	9.9999e-11	9.9954e-11	9.9954e-11
65	9.9999e-11	9.9954e-11	9.9954e-11
66	9.9999e-11	9.9953e-11	9.9953e-11
67	9.9999e-11	9.9952e-11	9.9952e-11
68	9.9999e-11	9.9952e-11	9.9952e-11
69	9.9999e-11	9.9951e-11	9.9951e-11
70	9.9999e-11	9.9950e-11	9.9950e-11
71	9.9999e-11	9.9950e-11	9.9950e-11
72	9.9999e-11	9.9949e-11	9.9949e-11
73	9.9999e-11	9.9948e-11	9.9948e-11
74	9.9999e-11	9.9948e-11	9.9948e-11
75	9.9999e-11	9.9947e-11	9.9947e-11
76	9.9999e-11	9.9946e-11	9.9946e-11
77	9.9999e-11	9.9945e-11	9.9945e-11
78	9.9999e-11	9.9945e-11	9.9945e-11
79	9.9999e-11	9.9944e-11	9.9944e-11
80	9.9999e-11	9.9943e-11	9.9943e-11
81	9.9999e-11	9.9943e-11	9.9943e-11
82	9.9999e-11	9.9942e-11	9.9942e-11
83	9.9999e-11	9.9941e-11	9.9941e-11
84	9.9999e-11	9.9941e-11	9.9941e-11
85	9.9999e-11	9.9940e-11	9.9940e-11
86	9.9999e-11	9.9939e-11	9.9939e-11
87	9.9999e-11	9.9938e-11	9.9938e-11
88	9.9999e-11	9.9938e-11	9.9938e-11
89	9.9999e-11	9.9937e-11	9.9937e-11
90	9.9999e-11	9.9936e-11	9.9936e-11
91	9.9999e-11	9.9936e-11	9.9936e-11
92	9.9999e-11	9.9935e-11	9.9935e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
93	9.9999e-11	9.9934e-11	9.9934e-11
94	9.9999e-11	9.9934e-11	9.9934e-11
95	9.9999e-11	9.9933e-11	9.9933e-11
96	9.9999e-11	9.9932e-11	9.9932e-11
97	9.9999e-11	9.9932e-11	9.9932e-11
98	9.9999e-11	9.9931e-11	9.9931e-11
99	9.9999e-11	9.9930e-11	9.9930e-11
100	9.9999e-11	9.9929e-11	9.9929e-11
101	9.9999e-11	9.9929e-11	9.9929e-11
102	9.9999e-11	9.9928e-11	9.9928e-11
103	9.9999e-11	9.9927e-11	9.9927e-11
104	9.9999e-11	9.9927e-11	9.9927e-11
105	9.9999e-11	9.9926e-11	9.9926e-11
106	9.9999e-11	9.9925e-11	9.9925e-11
107	9.9999e-11	9.9925e-11	9.9925e-11
108	9.9999e-11	9.9924e-11	9.9924e-11
109	9.9999e-11	9.9923e-11	9.9923e-11
110	9.9999e-11	9.9922e-11	9.9922e-11
111	9.9999e-11	9.9922e-11	9.9922e-11
112	9.9999e-11	9.9921e-11	9.9921e-11
113	9.9999e-11	9.9920e-11	9.9920e-11
114	9.9999e-11	9.9920e-11	9.9920e-11
115	9.9999e-11	9.9919e-11	9.9919e-11
116	9.9999e-11	9.9918e-11	9.9918e-11
117	9.9999e-11	9.9918e-11	9.9918e-11
118	9.9999e-11	9.9917e-11	9.9917e-11
119	9.9999e-11	9.9916e-11	9.9916e-11
120	9.9999e-11	9.9915e-11	9.9915e-11
121	9.9999e-11	9.9915e-11	9.9915e-11
122	9.9999e-11	9.9914e-11	9.9914e-11
123	9.9999e-11	9.9913e-11	9.9913e-11
124	9.9999e-11	9.9913e-11	9.9913e-11
125	9.9999e-11	9.9912e-11	9.9912e-11
126	9.9999e-11	9.9911e-11	9.9911e-11
127	9.9999e-11	9.9911e-11	9.9911e-11
128	9.9999e-11	9.9910e-11	9.9910e-11
129	9.9999e-11	9.9909e-11	9.9909e-11
130	9.9999e-11	9.9909e-11	9.9909e-11
131	9.9999e-11	9.9908e-11	9.9908e-11
132	9.9999e-11	9.9907e-11	9.9907e-11

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x	$A(x)$	P_{v1}	P_{v2}
133	9.9999e-11	9.9906e-11	9.9906e-11
134	9.9999e-11	9.9906e-11	9.9906e-11
135	9.9999e-11	9.9905e-11	9.9905e-11
136	9.9999e-11	9.9904e-11	9.9904e-11
137	9.9999e-11	9.9904e-11	9.9904e-11
138	9.9999e-11	9.9903e-11	9.9903e-11
139	9.9999e-11	9.9902e-11	9.9902e-11
140	9.9999e-11	9.9902e-11	9.9902e-11
141	9.9999e-11	9.9901e-11	9.9901e-11
142	9.9999e-11	9.9900e-11	9.9900e-11
143	9.9999e-11	9.9899e-11	9.9899e-11
144	9.9999e-11	9.9899e-11	9.9899e-11
145	9.9999e-11	9.9898e-11	9.9898e-11
146	9.9999e-11	9.9897e-11	9.9897e-11
147	9.9999e-11	9.9897e-11	9.9897e-11
148	9.9999e-11	9.9896e-11	9.9896e-11
149	9.9999e-11	9.9895e-11	9.9895e-11
150	9.9999e-11	9.9895e-11	9.9895e-11
151	9.9999e-11	9.9894e-11	9.9894e-11
152	9.9999e-11	9.9893e-11	9.9893e-11
153	9.9999e-11	9.9892e-11	9.9892e-11
154	9.9999e-11	9.9892e-11	9.9892e-11
155	9.9999e-11	9.9891e-11	9.9891e-11
156	9.9999e-11	9.9890e-11	9.9890e-11
157	9.9999e-11	9.9890e-11	9.9890e-11
158	9.9999e-11	9.9889e-11	9.9889e-11
159	9.9999e-11	9.9888e-11	9.9888e-11
160	9.9999e-11	9.9888e-11	9.9888e-11
161	9.9999e-11	9.9887e-11	9.9887e-11
162	9.9999e-11	9.9886e-11	9.9886e-11
163	9.9999e-11	9.9885e-11	9.9885e-11
164	9.9999e-11	9.9885e-11	9.9885e-11
165	9.9999e-11	9.9884e-11	9.9884e-11
166	9.9999e-11	9.9883e-11	9.9883e-11
167	9.9999e-11	9.9883e-11	9.9883e-11
168	9.9999e-11	9.9882e-11	9.9882e-11
169	9.9999e-11	9.9881e-11	9.9881e-11
170	9.9999e-11	9.9881e-11	9.9881e-11
171	9.9999e-11	9.9880e-11	9.9880e-11
172	9.9999e-11	9.9879e-11	9.9879e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
173	9.9999e-11	9.9878e-11	9.9878e-11
174	9.9999e-11	9.9878e-11	9.9878e-11
175	9.9999e-11	9.9877e-11	9.9877e-11
176	9.9999e-11	9.9876e-11	9.9876e-11
177	9.9999e-11	9.9876e-11	9.9876e-11
178	9.9999e-11	9.9875e-11	9.9875e-11
179	9.9999e-11	9.9874e-11	9.9874e-11
180	9.9999e-11	9.9874e-11	9.9874e-11
181	9.9999e-11	9.9873e-11	9.9873e-11
182	9.9999e-11	9.9872e-11	9.9872e-11
183	9.9999e-11	9.9871e-11	9.9871e-11
184	9.9999e-11	9.9871e-11	9.9871e-11
185	9.9999e-11	9.9870e-11	9.9870e-11
186	9.9999e-11	9.9869e-11	9.9869e-11
187	9.9999e-11	9.9869e-11	9.9869e-11
188	9.9999e-11	9.9868e-11	9.9868e-11
189	9.9999e-11	9.9867e-11	9.9867e-11
190	9.9999e-11	9.9867e-11	9.9867e-11
191	9.9999e-11	9.9866e-11	9.9866e-11
192	9.9999e-11	9.9865e-11	9.9865e-11
193	9.9999e-11	9.9864e-11	9.9864e-11
194	9.9999e-11	9.9864e-11	9.9864e-11
195	9.9999e-11	9.9863e-11	9.9863e-11
196	9.9999e-11	9.9862e-11	9.9862e-11
197	9.9999e-11	9.9862e-11	9.9862e-11
198	9.9999e-11	9.9861e-11	9.9861e-11
199	9.9999e-11	9.9860e-11	9.9860e-11
200	9.9999e-11	9.9860e-11	9.9860e-11
201	9.9999e-11	9.9859e-11	9.9859e-11
202	9.9999e-11	9.9858e-11	9.9858e-11
203	9.9999e-11	9.9857e-11	9.9857e-11
204	9.9999e-11	9.9857e-11	9.9857e-11
205	9.9999e-11	9.9856e-11	9.9856e-11
206	9.9999e-11	9.9855e-11	9.9855e-11
207	9.9999e-11	9.9855e-11	9.9855e-11
208	9.9999e-11	9.9854e-11	9.9854e-11
209	9.9999e-11	9.9853e-11	9.9853e-11
210	9.9999e-11	9.9853e-11	9.9853e-11
211	9.9999e-11	9.9852e-11	9.9852e-11
212	9.9999e-11	9.9851e-11	9.9851e-11

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x	$A(x)$	P_{v1}	P_{v2}
213	9.9999e-11	9.9850e-11	9.9850e-11
214	9.9999e-11	9.9850e-11	9.9850e-11
215	9.9999e-11	9.9849e-11	9.9849e-11
216	9.9999e-11	9.9848e-11	9.9848e-11
217	9.9999e-11	9.9848e-11	9.9848e-11
218	9.9999e-11	9.9847e-11	9.9847e-11
219	9.9999e-11	9.9846e-11	9.9846e-11
220	9.9999e-11	9.9846e-11	9.9846e-11
221	9.9999e-11	9.9845e-11	9.9845e-11
222	9.9999e-11	9.9844e-11	9.9844e-11
223	9.9999e-11	9.9843e-11	9.9843e-11
224	9.9999e-11	9.9843e-11	9.9843e-11
225	9.9999e-11	9.9842e-11	9.9842e-11
226	9.9999e-11	9.9841e-11	9.9841e-11
227	9.9999e-11	9.9841e-11	9.9841e-11
228	9.9999e-11	9.9840e-11	9.9840e-11
229	9.9999e-11	9.9839e-11	9.9839e-11
230	9.9999e-11	9.9839e-11	9.9839e-11
231	9.9999e-11	9.9838e-11	9.9838e-11
232	9.9999e-11	9.9837e-11	9.9837e-11
233	9.9999e-11	9.9836e-11	9.9836e-11
234	9.9999e-11	9.9836e-11	9.9836e-11
235	9.9999e-11	9.9835e-11	9.9835e-11
236	9.9999e-11	9.9834e-11	9.9834e-11
237	9.9999e-11	9.9834e-11	9.9834e-11
238	9.9999e-11	9.9833e-11	9.9833e-11
239	9.9999e-11	9.9832e-11	9.9832e-11
240	9.9999e-11	9.9832e-11	9.9832e-11
241	9.9999e-11	9.9831e-11	9.9831e-11
242	9.9999e-11	9.9830e-11	9.9830e-11
243	9.9999e-11	9.9829e-11	9.9829e-11
244	9.9999e-11	9.9829e-11	9.9829e-11
245	9.9999e-11	9.9828e-11	9.9828e-11
246	9.9999e-11	9.9827e-11	9.9827e-11
247	9.9999e-11	9.9827e-11	9.9827e-11
248	9.9999e-11	9.9826e-11	9.9826e-11
249	9.9999e-11	9.9825e-11	9.9825e-11
250	9.9999e-11	9.9825e-11	9.9825e-11
251	9.9999e-11	9.9824e-11	9.9824e-11
252	9.9999e-11	9.9823e-11	9.9823e-11

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x	$A(x)$	P_{v1}	P_{v2}
253	9.9999e-11	9.9822e-11	9.9822e-11
254	9.9999e-11	9.9822e-11	9.9822e-11
255	9.9999e-11	9.9821e-11	9.9821e-11
256	9.9999e-11	9.9820e-11	9.9820e-11
257	9.9999e-11	9.9820e-11	9.9820e-11
258	9.9999e-11	9.9819e-11	9.9819e-11
259	9.9999e-11	9.9818e-11	9.9818e-11
260	9.9999e-11	9.9818e-11	9.9818e-11
261	9.9999e-11	9.9817e-11	9.9817e-11
262	9.9999e-11	9.9816e-11	9.9816e-11
263	9.9999e-11	9.9815e-11	9.9815e-11
264	9.9999e-11	9.9815e-11	9.9815e-11
265	9.9999e-11	9.9814e-11	9.9814e-11
266	9.9999e-11	9.9813e-11	9.9813e-11
267	9.9999e-11	9.9813e-11	9.9813e-11
268	9.9999e-11	9.9812e-11	9.9812e-11
269	9.9999e-11	9.9811e-11	9.9811e-11
270	9.9999e-11	9.9810e-11	9.9810e-11
271	9.9999e-11	9.9810e-11	9.9810e-11
272	9.9999e-11	9.9809e-11	9.9809e-11
273	9.9999e-11	9.9808e-11	9.9808e-11
274	9.9999e-11	9.9808e-11	9.9808e-11
275	9.9999e-11	9.9807e-11	9.9807e-11
276	9.9999e-11	9.9806e-11	9.9806e-11
277	9.9999e-11	9.9806e-11	9.9806e-11
278	9.9999e-11	9.9805e-11	9.9805e-11
279	9.9999e-11	9.9804e-11	9.9804e-11
280	9.9999e-11	9.9803e-11	9.9803e-11
281	9.9999e-11	9.9803e-11	9.9803e-11
282	9.9999e-11	9.9802e-11	9.9802e-11
283	9.9999e-11	9.9801e-11	9.9801e-11
284	9.9999e-11	9.9801e-11	9.9801e-11
285	9.9999e-11	9.9800e-11	9.9800e-11
286	9.9999e-11	9.9799e-11	9.9799e-11
287	9.9999e-11	9.9799e-11	9.9799e-11
288	9.9999e-11	9.9798e-11	9.9798e-11
289	9.9999e-11	9.9797e-11	9.9797e-11
290	9.9999e-11	9.9796e-11	9.9796e-11
291	9.9999e-11	9.9796e-11	9.9796e-11
292	9.9999e-11	9.9795e-11	9.9795e-11

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x	$A(x)$	P_{v1}	P_{v2}
293	9.9999e-11	9.9794e-11	9.9794e-11
294	9.9999e-11	9.9794e-11	9.9794e-11
295	9.9999e-11	9.9793e-11	9.9793e-11
296	9.9999e-11	9.9792e-11	9.9792e-11
297	9.9999e-11	9.9792e-11	9.9792e-11
298	9.9999e-11	9.9791e-11	9.9791e-11
299	9.9999e-11	9.9790e-11	9.9790e-11
300	9.9999e-11	9.9789e-11	9.9789e-11
301	9.9999e-11	9.9789e-11	9.9789e-11
302	9.9999e-11	9.9788e-11	9.9788e-11
303	9.9999e-11	9.9787e-11	9.9787e-11
304	9.9999e-11	9.9787e-11	9.9787e-11
305	9.9999e-11	9.9786e-11	9.9786e-11
306	9.9999e-11	9.9785e-11	9.9785e-11
307	9.9999e-11	9.9784e-11	9.9784e-11
308	9.9999e-11	9.9784e-11	9.9784e-11
309	9.9999e-11	9.9783e-11	9.9783e-11
310	9.9999e-11	9.9782e-11	9.9782e-11
311	9.9999e-11	9.9782e-11	9.9782e-11
312	9.9999e-11	9.9781e-11	9.9781e-11
313	9.9999e-11	9.9780e-11	9.9780e-11
314	9.9999e-11	9.9780e-11	9.9780e-11
315	9.9999e-11	9.9779e-11	9.9779e-11
316	9.9999e-11	9.9778e-11	9.9778e-11
317	9.9999e-11	9.9777e-11	9.9777e-11
318	9.9999e-11	9.9777e-11	9.9777e-11
319	9.9999e-11	9.9776e-11	9.9776e-11
320	9.9999e-11	9.9775e-11	9.9775e-11
321	9.9999e-11	9.9775e-11	9.9775e-11
322	9.9999e-11	9.9774e-11	9.9774e-11
323	9.9999e-11	9.9773e-11	9.9773e-11
324	9.9999e-11	9.9772e-11	9.9772e-11
325	9.9999e-11	9.9772e-11	9.9772e-11
326	9.9999e-11	9.9771e-11	9.9771e-11
327	9.9999e-11	9.9770e-11	9.9770e-11
328	9.9999e-11	9.9770e-11	9.9770e-11
329	9.9999e-11	9.9769e-11	9.9769e-11
330	9.9999e-11	9.9768e-11	9.9768e-11
331	9.9999e-11	9.9768e-11	9.9768e-11
332	9.9999e-11	9.9767e-11	9.9767e-11

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x	$A(x)$	P_{v1}	P_{v2}
333	9.9999e-11	9.9766e-11	9.9766e-11
334	9.9999e-11	9.9765e-11	9.9765e-11
335	9.9999e-11	9.9765e-11	9.9765e-11
336	9.9999e-11	9.9764e-11	9.9764e-11
337	9.9999e-11	9.9763e-11	9.9763e-11
338	9.9999e-11	9.9763e-11	9.9763e-11
339	9.9999e-11	9.9762e-11	9.9762e-11
340	9.9999e-11	9.9761e-11	9.9761e-11
341	9.9999e-11	9.9761e-11	9.9761e-11
342	9.9999e-11	9.9760e-11	9.9760e-11
343	9.9999e-11	9.9759e-11	9.9759e-11
344	9.9999e-11	9.9758e-11	9.9758e-11
345	9.9999e-11	9.9758e-11	9.9758e-11
346	9.9999e-11	9.9757e-11	9.9757e-11
347	9.9999e-11	9.9756e-11	9.9756e-11
348	9.9999e-11	9.9756e-11	9.9756e-11
349	9.9999e-11	9.9755e-11	9.9755e-11
350	9.9999e-11	9.9754e-11	9.9754e-11
351	9.9999e-11	9.9753e-11	9.9753e-11
352	9.9999e-11	9.9753e-11	9.9753e-11
353	9.9999e-11	9.9752e-11	9.9752e-11
354	9.9999e-11	9.9751e-11	9.9751e-11
355	9.9999e-11	9.9751e-11	9.9751e-11
356	9.9999e-11	9.9750e-11	9.9750e-11
357	9.9999e-11	9.9749e-11	9.9749e-11
358	9.9999e-11	9.9749e-11	9.9749e-11
359	9.9999e-11	9.9748e-11	9.9748e-11
360	9.9999e-11	9.9747e-11	9.9747e-11
361	9.9999e-11	9.9746e-11	9.9746e-11
362	9.9999e-11	9.9746e-11	9.9746e-11
363	9.9999e-11	9.9745e-11	9.9745e-11
364	9.9999e-11	9.9744e-11	9.9744e-11
365	9.9999e-11	9.9744e-11	9.9744e-11
366	9.9999e-11	9.9743e-11	9.9743e-11
367	9.9999e-11	9.9742e-11	9.9742e-11
368	9.9999e-11	9.9741e-11	9.9741e-11
369	9.9999e-11	9.9741e-11	9.9741e-11
370	9.9999e-11	9.9740e-11	9.9740e-11
371	9.9999e-11	9.9739e-11	9.9739e-11
372	9.9999e-11	9.9739e-11	9.9739e-11

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x	$A(x)$	P_{v1}	P_{v2}
373	9.9999e-11	9.9738e-11	9.9738e-11
374	9.9999e-11	9.9737e-11	9.9737e-11
375	9.9999e-11	9.9737e-11	9.9737e-11
376	9.9999e-11	9.9736e-11	9.9736e-11
377	9.9999e-11	9.9735e-11	9.9735e-11
378	9.9999e-11	9.9734e-11	9.9734e-11
379	9.9999e-11	9.9734e-11	9.9734e-11
380	9.9999e-11	9.9733e-11	9.9733e-11
381	9.9999e-11	9.9732e-11	9.9732e-11
382	9.9999e-11	9.9732e-11	9.9732e-11
383	9.9999e-11	9.9731e-11	9.9731e-11
384	9.9999e-11	9.9730e-11	9.9730e-11
385	9.9999e-11	9.9729e-11	9.9729e-11
386	9.9999e-11	9.9729e-11	9.9729e-11
387	9.9999e-11	9.9728e-11	9.9728e-11
388	9.9999e-11	9.9727e-11	9.9727e-11
389	9.9999e-11	9.9727e-11	9.9727e-11
390	9.9999e-11	9.9726e-11	9.9726e-11
391	9.9999e-11	9.9725e-11	9.9725e-11
392	9.9999e-11	9.9725e-11	9.9725e-11
393	9.9999e-11	9.9724e-11	9.9724e-11
394	9.9999e-11	9.9723e-11	9.9723e-11
395	9.9999e-11	9.9722e-11	9.9722e-11
396	9.9999e-11	9.9722e-11	9.9722e-11
397	9.9999e-11	9.9721e-11	9.9721e-11
398	9.9999e-11	9.9720e-11	9.9720e-11
399	9.9999e-11	9.9720e-11	9.9720e-11
400	9.9999e-11	9.9719e-11	9.9719e-11
401	9.9999e-11	9.9718e-11	9.9718e-11
402	9.9999e-11	9.9717e-11	9.9717e-11
403	9.9999e-11	9.9717e-11	9.9717e-11
404	9.9999e-11	9.9716e-11	9.9716e-11
405	9.9999e-11	9.9715e-11	9.9715e-11
406	9.9999e-11	9.9715e-11	9.9715e-11
407	9.9999e-11	9.9714e-11	9.9714e-11
408	9.9999e-11	9.9713e-11	9.9713e-11
409	9.9999e-11	9.9712e-11	9.9712e-11
410	9.9999e-11	9.9712e-11	9.9712e-11
411	9.9999e-11	9.9711e-11	9.9711e-11
412	9.9999e-11	9.9710e-11	9.9710e-11

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x	$A(x)$	P_{v1}	P_{v2}
413	9.9999e-11	9.9710e-11	9.9710e-11
414	9.9999e-11	9.9709e-11	9.9709e-11
415	9.9999e-11	9.9708e-11	9.9708e-11
416	9.9999e-11	9.9708e-11	9.9708e-11
417	9.9999e-11	9.9707e-11	9.9707e-11
418	9.9999e-11	9.9706e-11	9.9706e-11
419	9.9999e-11	9.9705e-11	9.9705e-11
420	9.9999e-11	9.9705e-11	9.9705e-11
421	9.9999e-11	9.9704e-11	9.9704e-11
422	9.9999e-11	9.9703e-11	9.9703e-11
423	9.9999e-11	9.9703e-11	9.9703e-11
424	9.9999e-11	9.9702e-11	9.9702e-11
425	9.9999e-11	9.9701e-11	9.9701e-11
426	9.9999e-11	9.9700e-11	9.9700e-11
427	9.9999e-11	9.9700e-11	9.9700e-11
428	9.9999e-11	9.9699e-11	9.9699e-11
429	9.9999e-11	9.9698e-11	9.9698e-11
430	9.9999e-11	9.9698e-11	9.9698e-11
431	9.9999e-11	9.9697e-11	9.9697e-11
432	9.9999e-11	9.9696e-11	9.9696e-11
433	9.9999e-11	9.9696e-11	9.9696e-11
434	9.9999e-11	9.9695e-11	9.9695e-11
435	9.9999e-11	9.9694e-11	9.9694e-11
436	9.9999e-11	9.9693e-11	9.9693e-11
437	9.9999e-11	9.9693e-11	9.9693e-11
438	9.9999e-11	9.9692e-11	9.9692e-11
439	9.9999e-11	9.9691e-11	9.9691e-11
440	9.9999e-11	9.9691e-11	9.9691e-11
441	9.9999e-11	9.9690e-11	9.9690e-11
442	9.9999e-11	9.9689e-11	9.9689e-11
443	9.9999e-11	9.9688e-11	9.9688e-11
444	9.9999e-11	9.9688e-11	9.9688e-11
445	9.9999e-11	9.9687e-11	9.9687e-11
446	9.9999e-11	9.9686e-11	9.9686e-11
447	9.9999e-11	9.9686e-11	9.9686e-11
448	9.9999e-11	9.9685e-11	9.9685e-11
449	9.9999e-11	9.9684e-11	9.9684e-11
450	9.9999e-11	9.9683e-11	9.9683e-11
451	9.9999e-11	9.9683e-11	9.9683e-11
452	9.9999e-11	9.9682e-11	9.9682e-11

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x	$A(x)$	P_{v1}	P_{v2}
453	9.9999e-11	9.9681e-11	9.9681e-11
454	9.9999e-11	9.9681e-11	9.9681e-11
455	9.9999e-11	9.9680e-11	9.9680e-11
456	9.9999e-11	9.9679e-11	9.9679e-11
457	9.9999e-11	9.9679e-11	9.9679e-11
458	9.9999e-11	9.9678e-11	9.9678e-11
459	9.9999e-11	9.9677e-11	9.9677e-11
460	9.9999e-11	9.9676e-11	9.9676e-11
461	9.9999e-11	9.9676e-11	9.9676e-11
462	9.9999e-11	9.9675e-11	9.9675e-11
463	9.9999e-11	9.9674e-11	9.9674e-11
464	9.9999e-11	9.9674e-11	9.9674e-11
465	9.9999e-11	9.9673e-11	9.9673e-11
466	9.9999e-11	9.9672e-11	9.9672e-11
467	9.9999e-11	9.9671e-11	9.9671e-11
468	9.9999e-11	9.9671e-11	9.9671e-11
469	9.9999e-11	9.9670e-11	9.9670e-11
470	9.9999e-11	9.9669e-11	9.9669e-11
471	9.9999e-11	9.9669e-11	9.9669e-11
472	9.9999e-11	9.9668e-11	9.9668e-11
473	9.9999e-11	9.9667e-11	9.9667e-11
474	9.9999e-11	9.9666e-11	9.9666e-11
475	9.9999e-11	9.9666e-11	9.9666e-11
476	9.9999e-11	9.9665e-11	9.9665e-11
477	9.9999e-11	9.9664e-11	9.9664e-11
478	9.9999e-11	9.9664e-11	9.9664e-11
479	9.9999e-11	9.9663e-11	9.9663e-11
480	9.9999e-11	9.9662e-11	9.9662e-11
481	9.9999e-11	9.9661e-11	9.9661e-11
482	9.9999e-11	9.9661e-11	9.9661e-11
483	9.9999e-11	9.9660e-11	9.9660e-11
484	9.9999e-11	9.9659e-11	9.9659e-11
485	9.9999e-11	9.9659e-11	9.9659e-11
486	9.9999e-11	9.9658e-11	9.9658e-11
487	9.9999e-11	9.9657e-11	9.9657e-11
488	9.9999e-11	9.9657e-11	9.9657e-11
489	9.9999e-11	9.9656e-11	9.9656e-11
490	9.9999e-11	9.9655e-11	9.9655e-11
491	9.9999e-11	9.9654e-11	9.9654e-11
492	9.9999e-11	9.9654e-11	9.9654e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
493	9.9999e-11	9.9653e-11	9.9653e-11
494	9.9999e-11	9.9652e-11	9.9652e-11
495	9.9999e-11	9.9652e-11	9.9652e-11
496	9.9999e-11	9.9651e-11	9.9651e-11
497	9.9999e-11	9.9650e-11	9.9650e-11
498	9.9999e-11	9.9649e-11	9.9649e-11
499	9.9999e-11	9.9649e-11	9.9649e-11
500	9.9999e-11	9.9648e-11	9.9648e-11
501	9.9999e-11	9.9647e-11	9.9647e-11
502	9.9999e-11	9.9647e-11	9.9647e-11
503	9.9999e-11	9.9646e-11	9.9646e-11
504	9.9999e-11	9.9645e-11	9.9645e-11
505	9.9999e-11	9.9644e-11	9.9644e-11
506	9.9999e-11	9.9644e-11	9.9644e-11
507	9.9999e-11	9.9643e-11	9.9643e-11
508	9.9999e-11	9.9642e-11	9.9642e-11
509	9.9999e-11	9.9642e-11	9.9642e-11
510	9.9999e-11	9.9641e-11	9.9641e-11
511	9.9999e-11	9.9640e-11	9.9640e-11
512	9.9999e-11	9.9639e-11	9.9639e-11
513	9.9999e-11	9.9639e-11	9.9639e-11
514	9.9999e-11	9.9638e-11	9.9638e-11
515	9.9999e-11	9.9637e-11	9.9637e-11
516	9.9999e-11	9.9637e-11	9.9637e-11
517	9.9999e-11	9.9636e-11	9.9636e-11
518	9.9999e-11	9.9635e-11	9.9635e-11
519	9.9999e-11	9.9634e-11	9.9634e-11
520	9.9999e-11	9.9634e-11	9.9634e-11
521	9.9999e-11	9.9633e-11	9.9633e-11
522	9.9999e-11	9.9632e-11	9.9632e-11
523	9.9999e-11	9.9632e-11	9.9632e-11
524	9.9999e-11	9.9631e-11	9.9631e-11
525	9.9999e-11	9.9630e-11	9.9630e-11
526	9.9999e-11	9.9630e-11	9.9630e-11
527	9.9999e-11	9.9629e-11	9.9629e-11
528	9.9999e-11	9.9628e-11	9.9628e-11
529	9.9999e-11	9.9627e-11	9.9627e-11
530	9.9999e-11	9.9627e-11	9.9627e-11
531	9.9999e-11	9.9626e-11	9.9626e-11
532	9.9999e-11	9.9625e-11	9.9625e-11

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x	$A(x)$	P_{v1}	P_{v2}
533	9.9999e-11	9.9625e-11	9.9625e-11
534	9.9999e-11	9.9624e-11	9.9624e-11
535	9.9999e-11	9.9623e-11	9.9623e-11
536	9.9999e-11	9.9622e-11	9.9622e-11
537	9.9999e-11	9.9622e-11	9.9622e-11
538	9.9999e-11	9.9621e-11	9.9621e-11
539	9.9999e-11	9.9620e-11	9.9620e-11
540	9.9999e-11	9.9620e-11	9.9620e-11
541	9.9999e-11	9.9619e-11	9.9619e-11
542	9.9999e-11	9.9618e-11	9.9618e-11
543	9.9999e-11	9.9617e-11	9.9617e-11
544	9.9999e-11	9.9617e-11	9.9617e-11
545	9.9999e-11	9.9616e-11	9.9616e-11
546	9.9999e-11	9.9615e-11	9.9615e-11
547	9.9999e-11	9.9615e-11	9.9615e-11
548	9.9999e-11	9.9614e-11	9.9614e-11
549	9.9999e-11	9.9613e-11	9.9613e-11
550	9.9999e-11	9.9612e-11	9.9612e-11
551	9.9999e-11	9.9612e-11	9.9612e-11
552	9.9999e-11	9.9611e-11	9.9611e-11
553	9.9999e-11	9.9610e-11	9.9610e-11
554	9.9999e-11	9.9610e-11	9.9610e-11
555	9.9999e-11	9.9609e-11	9.9609e-11
556	9.9999e-11	9.9608e-11	9.9608e-11
557	9.9999e-11	9.9607e-11	9.9607e-11
558	9.9999e-11	9.9607e-11	9.9607e-11
559	9.9999e-11	9.9606e-11	9.9606e-11
560	9.9999e-11	9.9605e-11	9.9605e-11
561	9.9999e-11	9.9605e-11	9.9605e-11
562	9.9999e-11	9.9604e-11	9.9604e-11
563	9.9999e-11	9.9603e-11	9.9603e-11
564	9.9999e-11	9.9602e-11	9.9602e-11
565	9.9999e-11	9.9602e-11	9.9602e-11
566	9.9999e-11	9.9601e-11	9.9601e-11
567	9.9999e-11	9.9600e-11	9.9600e-11
568	9.9999e-11	9.9600e-11	9.9600e-11
569	9.9999e-11	9.9599e-11	9.9599e-11
570	9.9999e-11	9.9598e-11	9.9598e-11
571	9.9999e-11	9.9597e-11	9.9597e-11
572	9.9999e-11	9.9597e-11	9.9597e-11

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x	$A(x)$	P_{v1}	P_{v2}
573	9.9999e-11	9.9596e-11	9.9596e-11
574	9.9999e-11	9.9595e-11	9.9595e-11
575	9.9999e-11	9.9595e-11	9.9595e-11
576	9.9999e-11	9.9594e-11	9.9594e-11
577	9.9999e-11	9.9593e-11	9.9593e-11
578	9.9999e-11	9.9592e-11	9.9592e-11
579	9.9999e-11	9.9592e-11	9.9592e-11
580	9.9999e-11	9.9591e-11	9.9591e-11
581	9.9999e-11	9.9590e-11	9.9590e-11
582	9.9999e-11	9.9590e-11	9.9590e-11
583	9.9999e-11	9.9589e-11	9.9589e-11
584	9.9999e-11	9.9588e-11	9.9588e-11
585	9.9999e-11	9.9587e-11	9.9587e-11
586	9.9999e-11	9.9587e-11	9.9587e-11
587	9.9999e-11	9.9586e-11	9.9586e-11
588	9.9999e-11	9.9585e-11	9.9585e-11
589	9.9999e-11	9.9585e-11	9.9585e-11
590	9.9999e-11	9.9584e-11	9.9584e-11
591	9.9999e-11	9.9583e-11	9.9583e-11
592	9.9999e-11	9.9582e-11	9.9582e-11
593	9.9999e-11	9.9582e-11	9.9582e-11
594	9.9999e-11	9.9581e-11	9.9581e-11
595	9.9999e-11	9.9580e-11	9.9580e-11
596	9.9999e-11	9.9580e-11	9.9580e-11
597	9.9999e-11	9.9579e-11	9.9579e-11
598	9.9999e-11	9.9578e-11	9.9578e-11
599	9.9999e-11	9.9577e-11	9.9577e-11
600	9.9999e-11	9.9577e-11	9.9577e-11
601	9.9999e-11	9.9576e-11	9.9576e-11
602	9.9999e-11	9.9575e-11	9.9575e-11
603	9.9999e-11	9.9575e-11	9.9575e-11
604	9.9999e-11	9.9574e-11	9.9574e-11
605	9.9999e-11	9.9573e-11	9.9573e-11
606	9.9999e-11	9.9572e-11	9.9572e-11
607	9.9999e-11	9.9572e-11	9.9572e-11
608	9.9999e-11	9.9571e-11	9.9571e-11
609	9.9999e-11	9.9570e-11	9.9570e-11
610	9.9999e-11	9.9570e-11	9.9570e-11
611	9.9999e-11	9.9569e-11	9.9569e-11
612	9.9999e-11	9.9568e-11	9.9568e-11

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x	$A(x)$	P_{v1}	P_{v2}
613	9.9999e-11	9.9567e-11	9.9567e-11
614	9.9999e-11	9.9567e-11	9.9567e-11
615	9.9999e-11	9.9566e-11	9.9566e-11
616	9.9999e-11	9.9565e-11	9.9565e-11
617	9.9999e-11	9.9565e-11	9.9565e-11
618	9.9999e-11	9.9564e-11	9.9564e-11
619	9.9999e-11	9.9563e-11	9.9563e-11
620	9.9999e-11	9.9562e-11	9.9562e-11
621	9.9999e-11	9.9562e-11	9.9562e-11
622	9.9999e-11	9.9561e-11	9.9561e-11
623	9.9999e-11	9.9560e-11	9.9560e-11
624	9.9999e-11	9.9560e-11	9.9560e-11
625	9.9999e-11	9.9559e-11	9.9559e-11
626	9.9999e-11	9.9558e-11	9.9558e-11
627	9.9999e-11	9.9557e-11	9.9557e-11
628	9.9999e-11	9.9557e-11	9.9557e-11
629	9.9999e-11	9.9556e-11	9.9556e-11
630	9.9999e-11	9.9555e-11	9.9555e-11
631	9.9999e-11	9.9555e-11	9.9555e-11
632	9.9999e-11	9.9554e-11	9.9554e-11
633	9.9999e-11	9.9553e-11	9.9553e-11
634	9.9999e-11	9.9552e-11	9.9552e-11
635	9.9999e-11	9.9552e-11	9.9552e-11
636	9.9999e-11	9.9551e-11	9.9551e-11
637	9.9999e-11	9.9550e-11	9.9550e-11
638	9.9999e-11	9.9550e-11	9.9550e-11
639	9.9999e-11	9.9549e-11	9.9549e-11
640	9.9999e-11	9.9548e-11	9.9548e-11
641	9.9999e-11	9.9547e-11	9.9547e-11
642	9.9999e-11	9.9547e-11	9.9547e-11
643	9.9999e-11	9.9546e-11	9.9546e-11
644	9.9999e-11	9.9545e-11	9.9545e-11
645	9.9999e-11	9.9545e-11	9.9545e-11
646	9.9999e-11	9.9544e-11	9.9544e-11
647	9.9999e-11	9.9543e-11	9.9543e-11
648	9.9999e-11	9.9542e-11	9.9542e-11
649	9.9999e-11	9.9542e-11	9.9542e-11
650	9.9999e-11	9.9541e-11	9.9541e-11
651	9.9999e-11	9.9540e-11	9.9540e-11
652	9.9999e-11	9.9540e-11	9.9540e-11

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x	$A(x)$	P_{v1}	P_{v2}
653	9.9999e-11	9.9539e-11	9.9539e-11
654	9.9999e-11	9.9538e-11	9.9538e-11
655	9.9999e-11	9.9537e-11	9.9537e-11
656	9.9999e-11	9.9537e-11	9.9537e-11
657	9.9999e-11	9.9536e-11	9.9536e-11
658	9.9999e-11	9.9535e-11	9.9535e-11
659	9.9999e-11	9.9535e-11	9.9535e-11
660	9.9999e-11	9.9534e-11	9.9534e-11
661	9.9999e-11	9.9533e-11	9.9533e-11
662	9.9999e-11	9.9532e-11	9.9532e-11
663	9.9999e-11	9.9532e-11	9.9532e-11
664	9.9999e-11	9.9531e-11	9.9531e-11
665	9.9999e-11	9.9530e-11	9.9530e-11
666	9.9999e-11	9.9530e-11	9.9530e-11
667	9.9999e-11	9.9529e-11	9.9529e-11
668	9.9999e-11	9.9528e-11	9.9528e-11
669	9.9999e-11	9.9527e-11	9.9527e-11
670	9.9999e-11	9.9527e-11	9.9527e-11
671	9.9999e-11	9.9526e-11	9.9526e-11
672	9.9999e-11	9.9525e-11	9.9525e-11
673	9.9999e-11	9.9525e-11	9.9525e-11
674	9.9999e-11	9.9524e-11	9.9524e-11
675	9.9999e-11	9.9523e-11	9.9523e-11
676	9.9999e-11	9.9522e-11	9.9522e-11
677	9.9999e-11	9.9522e-11	9.9522e-11
678	9.9999e-11	9.9521e-11	9.9521e-11
679	9.9999e-11	9.9520e-11	9.9520e-11
680	9.9999e-11	9.9520e-11	9.9520e-11
681	9.9999e-11	9.9519e-11	9.9519e-11
682	9.9999e-11	9.9518e-11	9.9518e-11
683	9.9999e-11	9.9517e-11	9.9517e-11
684	9.9999e-11	9.9517e-11	9.9517e-11
685	9.9999e-11	9.9516e-11	9.9516e-11
686	9.9999e-11	9.9515e-11	9.9515e-11
687	9.9999e-11	9.9515e-11	9.9515e-11
688	9.9999e-11	9.9514e-11	9.9514e-11
689	9.9999e-11	9.9513e-11	9.9513e-11
690	9.9999e-11	9.9512e-11	9.9512e-11
691	9.9999e-11	9.9512e-11	9.9512e-11
692	9.9999e-11	9.9511e-11	9.9511e-11

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x	$A(x)$	P_{v1}	P_{v2}
693	9.9999e-11	9.9510e-11	9.9510e-11
694	9.9999e-11	9.9510e-11	9.9510e-11
695	9.9999e-11	9.9509e-11	9.9509e-11
696	9.9999e-11	9.9508e-11	9.9508e-11
697	9.9999e-11	9.9507e-11	9.9507e-11
698	9.9999e-11	9.9507e-11	9.9507e-11
699	9.9999e-11	9.9506e-11	9.9506e-11
700	9.9999e-11	9.9505e-11	9.9505e-11
701	9.9999e-11	9.9505e-11	9.9505e-11
702	9.9999e-11	9.9504e-11	9.9504e-11
703	9.9999e-11	9.9503e-11	9.9503e-11
704	9.9999e-11	9.9502e-11	9.9502e-11
705	9.9999e-11	9.9502e-11	9.9502e-11
706	9.9999e-11	9.9501e-11	9.9501e-11
707	9.9999e-11	9.9500e-11	9.9500e-11
708	9.9999e-11	9.9499e-11	9.9499e-11
709	9.9999e-11	9.9499e-11	9.9499e-11
710	9.9999e-11	9.9498e-11	9.9498e-11
711	9.9999e-11	9.9497e-11	9.9497e-11
712	9.9999e-11	9.9497e-11	9.9497e-11
713	9.9999e-11	9.9496e-11	9.9496e-11
714	9.9999e-11	9.9495e-11	9.9495e-11
715	9.9999e-11	9.9494e-11	9.9494e-11
716	9.9999e-11	9.9494e-11	9.9494e-11
717	9.9999e-11	9.9493e-11	9.9493e-11
718	9.9999e-11	9.9492e-11	9.9492e-11
719	9.9999e-11	9.9492e-11	9.9492e-11
720	9.9999e-11	9.9491e-11	9.9491e-11
721	9.9999e-11	9.9490e-11	9.9490e-11
722	9.9999e-11	9.9489e-11	9.9489e-11
723	9.9999e-11	9.9489e-11	9.9489e-11
724	9.9999e-11	9.9488e-11	9.9488e-11
725	9.9999e-11	9.9487e-11	9.9487e-11
726	9.9999e-11	9.9487e-11	9.9487e-11
727	9.9999e-11	9.9486e-11	9.9486e-11
728	9.9999e-11	9.9485e-11	9.9485e-11
729	9.9999e-11	9.9484e-11	9.9484e-11
730	9.9999e-11	9.9484e-11	9.9484e-11
731	9.9999e-11	9.9483e-11	9.9483e-11
732	9.9999e-11	9.9482e-11	9.9482e-11

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x	$A(x)$	P_{v1}	P_{v2}
733	9.9999e-11	9.9482e-11	9.9482e-11
734	9.9999e-11	9.9481e-11	9.9481e-11
735	9.9999e-11	9.9480e-11	9.9480e-11
736	9.9999e-11	9.9479e-11	9.9479e-11
737	9.9999e-11	9.9479e-11	9.9479e-11
738	9.9999e-11	9.9478e-11	9.9478e-11
739	9.9999e-11	9.9477e-11	9.9477e-11
740	9.9999e-11	9.9477e-11	9.9477e-11
741	9.9999e-11	9.9476e-11	9.9476e-11
742	9.9999e-11	9.9475e-11	9.9475e-11
743	9.9999e-11	9.9474e-11	9.9474e-11
744	9.9999e-11	9.9474e-11	9.9474e-11
745	9.9999e-11	9.9473e-11	9.9473e-11
746	9.9999e-11	9.9472e-11	9.9472e-11
747	9.9999e-11	9.9471e-11	9.9471e-11
748	9.9999e-11	9.9471e-11	9.9471e-11
749	9.9999e-11	9.9470e-11	9.9470e-11
750	9.9999e-11	9.9469e-11	9.9469e-11
751	9.9999e-11	9.9469e-11	9.9469e-11
752	9.9999e-11	9.9468e-11	9.9468e-11
753	9.9999e-11	9.9467e-11	9.9467e-11
754	9.9999e-11	9.9466e-11	9.9466e-11
755	9.9999e-11	9.9466e-11	9.9466e-11
756	9.9999e-11	9.9465e-11	9.9465e-11
757	9.9999e-11	9.9464e-11	9.9464e-11
758	9.9999e-11	9.9464e-11	9.9464e-11
759	9.9999e-11	9.9463e-11	9.9463e-11
760	9.9999e-11	9.9462e-11	9.9462e-11
761	9.9999e-11	9.9461e-11	9.9461e-11
762	9.9999e-11	9.9461e-11	9.9461e-11
763	9.9999e-11	9.9460e-11	9.9460e-11
764	9.9999e-11	9.9459e-11	9.9459e-11
765	9.9999e-11	9.9459e-11	9.9459e-11
766	9.9999e-11	9.9458e-11	9.9458e-11
767	9.9999e-11	9.9457e-11	9.9457e-11
768	9.9999e-11	9.9456e-11	9.9456e-11
769	9.9999e-11	9.9456e-11	9.9456e-11
770	9.9999e-11	9.9455e-11	9.9455e-11
771	9.9999e-11	9.9454e-11	9.9454e-11
772	9.9999e-11	9.9454e-11	9.9454e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
773	9.9999e-11	9.9453e-11	9.9453e-11
774	9.9999e-11	9.9452e-11	9.9452e-11
775	9.9999e-11	9.9451e-11	9.9451e-11
776	9.9999e-11	9.9451e-11	9.9451e-11
777	9.9999e-11	9.9450e-11	9.9450e-11
778	9.9999e-11	9.9449e-11	9.9449e-11
779	9.9999e-11	9.9448e-11	9.9448e-11
780	9.9999e-11	9.9448e-11	9.9448e-11
781	9.9999e-11	9.9447e-11	9.9447e-11
782	9.9999e-11	9.9446e-11	9.9446e-11
783	9.9999e-11	9.9446e-11	9.9446e-11
784	9.9999e-11	9.9445e-11	9.9445e-11
785	9.9999e-11	9.9444e-11	9.9444e-11
786	9.9999e-11	9.9443e-11	9.9443e-11
787	9.9999e-11	9.9443e-11	9.9443e-11
788	9.9999e-11	9.9442e-11	9.9442e-11
789	9.9999e-11	9.9441e-11	9.9441e-11
790	9.9999e-11	9.9441e-11	9.9441e-11
791	9.9999e-11	9.9440e-11	9.9440e-11
792	9.9999e-11	9.9439e-11	9.9439e-11
793	9.9999e-11	9.9438e-11	9.9438e-11
794	9.9999e-11	9.9438e-11	9.9438e-11
795	9.9999e-11	9.9437e-11	9.9437e-11
796	9.9999e-11	9.9436e-11	9.9436e-11
797	9.9999e-11	9.9436e-11	9.9436e-11
798	9.9999e-11	9.9435e-11	9.9435e-11
799	9.9999e-11	9.9434e-11	9.9434e-11
800	9.9999e-11	9.9433e-11	9.9433e-11
801	9.9999e-11	9.9433e-11	9.9433e-11
802	9.9999e-11	9.9432e-11	9.9432e-11
803	9.9999e-11	9.9431e-11	9.9431e-11
804	9.9999e-11	9.9430e-11	9.9430e-11
805	9.9999e-11	9.9430e-11	9.9430e-11
806	9.9999e-11	9.9429e-11	9.9429e-11
807	9.9999e-11	9.9428e-11	9.9428e-11
808	9.9999e-11	9.9428e-11	9.9428e-11
809	9.9999e-11	9.9427e-11	9.9427e-11
810	9.9999e-11	9.9426e-11	9.9426e-11
811	9.9999e-11	9.9425e-11	9.9425e-11
812	9.9999e-11	9.9425e-11	9.9425e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
813	9.9999e-11	9.9424e-11	9.9424e-11
814	9.9999e-11	9.9423e-11	9.9423e-11
815	9.9999e-11	9.9423e-11	9.9423e-11
816	9.9999e-11	9.9422e-11	9.9422e-11
817	9.9999e-11	9.9421e-11	9.9421e-11
818	9.9999e-11	9.9420e-11	9.9420e-11
819	9.9999e-11	9.9420e-11	9.9420e-11
820	9.9999e-11	9.9419e-11	9.9419e-11
821	9.9999e-11	9.9418e-11	9.9418e-11
822	9.9999e-11	9.9417e-11	9.9417e-11
823	9.9999e-11	9.9417e-11	9.9417e-11
824	9.9999e-11	9.9416e-11	9.9416e-11
825	9.9999e-11	9.9415e-11	9.9415e-11
826	9.9999e-11	9.9415e-11	9.9415e-11
827	9.9999e-11	9.9414e-11	9.9414e-11
828	9.9999e-11	9.9413e-11	9.9413e-11
829	9.9999e-11	9.9412e-11	9.9412e-11
830	9.9999e-11	9.9412e-11	9.9412e-11
831	9.9999e-11	9.9411e-11	9.9411e-11
832	9.9999e-11	9.9410e-11	9.9410e-11
833	9.9999e-11	9.9410e-11	9.9410e-11
834	9.9999e-11	9.9409e-11	9.9409e-11
835	9.9999e-11	9.9408e-11	9.9408e-11
836	9.9999e-11	9.9407e-11	9.9407e-11
837	9.9999e-11	9.9407e-11	9.9407e-11
838	9.9999e-11	9.9406e-11	9.9406e-11
839	9.9999e-11	9.9405e-11	9.9405e-11
840	9.9999e-11	9.9404e-11	9.9404e-11
841	9.9999e-11	9.9404e-11	9.9404e-11
842	9.9999e-11	9.9403e-11	9.9403e-11
843	9.9999e-11	9.9402e-11	9.9402e-11
844	9.9999e-11	9.9402e-11	9.9402e-11
845	9.9999e-11	9.9401e-11	9.9401e-11
846	9.9999e-11	9.9400e-11	9.9400e-11
847	9.9999e-11	9.9399e-11	9.9399e-11
848	9.9999e-11	9.9399e-11	9.9399e-11
849	9.9999e-11	9.9398e-11	9.9398e-11
850	9.9999e-11	9.9397e-11	9.9397e-11
851	9.9999e-11	9.9397e-11	9.9397e-11
852	9.9999e-11	9.9396e-11	9.9396e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
853	9.9999e-11	9.9395e-11	9.9395e-11
854	9.9999e-11	9.9394e-11	9.9394e-11
855	9.9999e-11	9.9394e-11	9.9394e-11
856	9.9999e-11	9.9393e-11	9.9393e-11
857	9.9999e-11	9.9392e-11	9.9392e-11
858	9.9999e-11	9.9391e-11	9.9391e-11
859	9.9999e-11	9.9391e-11	9.9391e-11
860	9.9999e-11	9.9390e-11	9.9390e-11
861	9.9999e-11	9.9389e-11	9.9389e-11
862	9.9999e-11	9.9389e-11	9.9389e-11
863	9.9999e-11	9.9388e-11	9.9388e-11
864	9.9999e-11	9.9387e-11	9.9387e-11
865	9.9999e-11	9.9386e-11	9.9386e-11
866	9.9999e-11	9.9386e-11	9.9386e-11
867	9.9999e-11	9.9385e-11	9.9385e-11
868	9.9999e-11	9.9384e-11	9.9384e-11
869	9.9999e-11	9.9384e-11	9.9384e-11
870	9.9999e-11	9.9383e-11	9.9383e-11
871	9.9999e-11	9.9382e-11	9.9382e-11
872	9.9999e-11	9.9381e-11	9.9381e-11
873	9.9999e-11	9.9381e-11	9.9381e-11
874	9.9999e-11	9.9380e-11	9.9380e-11
875	9.9999e-11	9.9379e-11	9.9379e-11
876	9.9999e-11	9.9378e-11	9.9378e-11
877	9.9999e-11	9.9378e-11	9.9378e-11
878	9.9999e-11	9.9377e-11	9.9377e-11
879	9.9999e-11	9.9376e-11	9.9376e-11
880	9.9999e-11	9.9376e-11	9.9376e-11
881	9.9999e-11	9.9375e-11	9.9375e-11
882	9.9999e-11	9.9374e-11	9.9374e-11
883	9.9999e-11	9.9373e-11	9.9373e-11
884	9.9999e-11	9.9373e-11	9.9373e-11
885	9.9999e-11	9.9372e-11	9.9372e-11
886	9.9999e-11	9.9371e-11	9.9371e-11
887	9.9999e-11	9.9371e-11	9.9371e-11
888	9.9999e-11	9.9370e-11	9.9370e-11
889	9.9999e-11	9.9369e-11	9.9369e-11
890	9.9999e-11	9.9368e-11	9.9368e-11
891	9.9999e-11	9.9368e-11	9.9368e-11
892	9.9999e-11	9.9367e-11	9.9367e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
893	9.9999e-11	9.9366e-11	9.9366e-11
894	9.9999e-11	9.9365e-11	9.9365e-11
895	9.9999e-11	9.9365e-11	9.9365e-11
896	9.9999e-11	9.9364e-11	9.9364e-11
897	9.9999e-11	9.9363e-11	9.9363e-11
898	9.9999e-11	9.9363e-11	9.9363e-11
899	9.9999e-11	9.9362e-11	9.9362e-11
900	9.9999e-11	9.9361e-11	9.9361e-11
901	9.9999e-11	9.9360e-11	9.9360e-11
902	9.9999e-11	9.9360e-11	9.9360e-11
903	9.9999e-11	9.9359e-11	9.9359e-11
904	9.9999e-11	9.9358e-11	9.9358e-11
905	9.9999e-11	9.9357e-11	9.9357e-11
906	9.9999e-11	9.9357e-11	9.9357e-11
907	9.9999e-11	9.9356e-11	9.9356e-11
908	9.9999e-11	9.9355e-11	9.9355e-11
909	9.9999e-11	9.9355e-11	9.9355e-11
910	9.9999e-11	9.9354e-11	9.9354e-11
911	9.9999e-11	9.9353e-11	9.9353e-11
912	9.9999e-11	9.9352e-11	9.9352e-11
913	9.9999e-11	9.9352e-11	9.9352e-11
914	9.9999e-11	9.9351e-11	9.9351e-11
915	9.9999e-11	9.9350e-11	9.9350e-11
916	9.9999e-11	9.9350e-11	9.9350e-11
917	9.9999e-11	9.9349e-11	9.9349e-11
918	9.9999e-11	9.9348e-11	9.9348e-11
919	9.9999e-11	9.9347e-11	9.9347e-11
920	9.9999e-11	9.9347e-11	9.9347e-11
921	9.9999e-11	9.9346e-11	9.9346e-11
922	9.9999e-11	9.9345e-11	9.9345e-11
923	9.9999e-11	9.9344e-11	9.9344e-11
924	9.9999e-11	9.9344e-11	9.9344e-11
925	9.9999e-11	9.9343e-11	9.9343e-11
926	9.9999e-11	9.9342e-11	9.9342e-11
927	9.9999e-11	9.9342e-11	9.9342e-11
928	9.9999e-11	9.9341e-11	9.9341e-11
929	9.9999e-11	9.9340e-11	9.9340e-11
930	9.9999e-11	9.9339e-11	9.9339e-11
931	9.9999e-11	9.9339e-11	9.9339e-11
932	9.9999e-11	9.9338e-11	9.9338e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
933	9.9999e-11	9.9337e-11	9.9337e-11
934	9.9999e-11	9.9336e-11	9.9336e-11
935	9.9999e-11	9.9336e-11	9.9336e-11
936	9.9999e-11	9.9335e-11	9.9335e-11
937	9.9999e-11	9.9334e-11	9.9334e-11
938	9.9999e-11	9.9334e-11	9.9334e-11
939	9.9999e-11	9.9333e-11	9.9333e-11
940	9.9999e-11	9.9332e-11	9.9332e-11
941	9.9999e-11	9.9331e-11	9.9331e-11
942	9.9999e-11	9.9331e-11	9.9331e-11
943	9.9999e-11	9.9330e-11	9.9330e-11
944	9.9999e-11	9.9329e-11	9.9329e-11
945	9.9999e-11	9.9329e-11	9.9329e-11
946	9.9999e-11	9.9328e-11	9.9328e-11
947	9.9999e-11	9.9327e-11	9.9327e-11
948	9.9999e-11	9.9326e-11	9.9326e-11
949	9.9999e-11	9.9326e-11	9.9326e-11
950	9.9999e-11	9.9325e-11	9.9325e-11
951	9.9999e-11	9.9324e-11	9.9324e-11
952	9.9999e-11	9.9323e-11	9.9323e-11
953	9.9999e-11	9.9323e-11	9.9323e-11
954	9.9999e-11	9.9322e-11	9.9322e-11
955	9.9999e-11	9.9321e-11	9.9321e-11
956	9.9999e-11	9.9321e-11	9.9321e-11
957	9.9999e-11	9.9320e-11	9.9320e-11
958	9.9999e-11	9.9319e-11	9.9319e-11
959	9.9999e-11	9.9318e-11	9.9318e-11
960	9.9999e-11	9.9318e-11	9.9318e-11
961	9.9999e-11	9.9317e-11	9.9317e-11
962	9.9999e-11	9.9316e-11	9.9316e-11
963	9.9999e-11	9.9315e-11	9.9315e-11
964	9.9999e-11	9.9315e-11	9.9315e-11
965	9.9999e-11	9.9314e-11	9.9314e-11
966	9.9999e-11	9.9313e-11	9.9313e-11
967	9.9999e-11	9.9313e-11	9.9313e-11
968	9.9999e-11	9.9312e-11	9.9312e-11
969	9.9999e-11	9.9311e-11	9.9311e-11
970	9.9999e-11	9.9310e-11	9.9310e-11
971	9.9999e-11	9.9310e-11	9.9310e-11
972	9.9999e-11	9.9309e-11	9.9309e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
973	9.9999e-11	9.9308e-11	9.9308e-11
974	9.9999e-11	9.9307e-11	9.9307e-11
975	9.9999e-11	9.9307e-11	9.9307e-11
976	9.9999e-11	9.9306e-11	9.9306e-11
977	9.9999e-11	9.9305e-11	9.9305e-11
978	9.9999e-11	9.9305e-11	9.9305e-11
979	9.9999e-11	9.9304e-11	9.9304e-11
980	9.9999e-11	9.9303e-11	9.9303e-11
981	9.9999e-11	9.9302e-11	9.9302e-11
982	9.9999e-11	9.9302e-11	9.9302e-11
983	9.9999e-11	9.9301e-11	9.9301e-11
984	9.9999e-11	9.9300e-11	9.9300e-11
985	9.9999e-11	9.9299e-11	9.9299e-11
986	9.9999e-11	9.9299e-11	9.9299e-11
987	9.9999e-11	9.9298e-11	9.9298e-11
988	9.9999e-11	9.9297e-11	9.9297e-11
989	9.9999e-11	9.9297e-11	9.9297e-11
990	9.9999e-11	9.9296e-11	9.9296e-11
991	9.9999e-11	9.9295e-11	9.9295e-11
992	9.9999e-11	9.9294e-11	9.9294e-11
993	9.9999e-11	9.9294e-11	9.9294e-11
994	9.9999e-11	9.9293e-11	9.9293e-11
995	9.9999e-11	9.9292e-11	9.9292e-11
996	9.9999e-11	9.9291e-11	9.9291e-11
997	9.9999e-11	9.9291e-11	9.9291e-11
998	9.9999e-11	9.9290e-11	9.9290e-11
999	9.9999e-11	9.9289e-11	9.9289e-11
1000	9.9999e-11	9.9289e-11	9.9289e-11

Table B.7.24: Output for Problem 7.3.6-DIST-C

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00
1	9.9999e-11	9.9993e-11	9.9993e-11
2	9.9999e-11	9.9998e-11	9.9998e-11
3	9.9999e-11	9.9997e-11	9.9997e-11
4	9.9999e-11	9.9996e-11	9.9996e-11
5	9.9999e-11	9.9995e-11	9.9995e-11
6	9.9999e-11	9.9995e-11	9.9995e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
7	9.9999e-11	9.9994e-11	9.9994e-11
8	9.9999e-11	9.9993e-11	9.9993e-11
9	9.9999e-11	9.9993e-11	9.9993e-11
10	9.9999e-11	9.9992e-11	9.9992e-11
11	9.9999e-11	9.9991e-11	9.9991e-11
12	9.9999e-11	9.9991e-11	9.9991e-11
13	9.9999e-11	9.9990e-11	9.9990e-11
14	9.9999e-11	9.9989e-11	9.9989e-11
15	9.9999e-11	9.9989e-11	9.9989e-11
16	9.9999e-11	9.9988e-11	9.9988e-11
17	9.9999e-11	9.9987e-11	9.9987e-11
18	9.9999e-11	9.9986e-11	9.9986e-11
19	9.9999e-11	9.9986e-11	9.9986e-11
20	9.9999e-11	9.9985e-11	9.9985e-11
21	9.9999e-11	9.9984e-11	9.9984e-11
22	9.9999e-11	9.9984e-11	9.9984e-11
23	9.9999e-11	9.9983e-11	9.9983e-11
24	9.9999e-11	9.9982e-11	9.9982e-11
25	9.9999e-11	9.9982e-11	9.9982e-11
26	9.9999e-11	9.9981e-11	9.9981e-11
27	9.9999e-11	9.9980e-11	9.9980e-11
28	9.9999e-11	9.9979e-11	9.9979e-11
29	9.9999e-11	9.9979e-11	9.9979e-11
30	9.9999e-11	9.9978e-11	9.9978e-11
31	9.9999e-11	9.9977e-11	9.9977e-11
32	9.9999e-11	9.9977e-11	9.9977e-11
33	9.9999e-11	9.9976e-11	9.9976e-11
34	9.9999e-11	9.9975e-11	9.9975e-11
35	9.9999e-11	9.9975e-11	9.9975e-11
36	9.9999e-11	9.9974e-11	9.9974e-11
37	9.9999e-11	9.9973e-11	9.9973e-11
38	9.9999e-11	9.9973e-11	9.9973e-11
39	9.9999e-11	9.9972e-11	9.9972e-11
40	9.9999e-11	9.9971e-11	9.9971e-11
41	9.9999e-11	9.9970e-11	9.9970e-11
42	9.9999e-11	9.9970e-11	9.9970e-11
43	9.9999e-11	9.9969e-11	9.9969e-11
44	9.9999e-11	9.9968e-11	9.9968e-11
45	9.9999e-11	9.9968e-11	9.9968e-11
46	9.9999e-11	9.9967e-11	9.9967e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
47	9.9999e-11	9.9966e-11	9.9966e-11
48	9.9999e-11	9.9966e-11	9.9966e-11
49	9.9999e-11	9.9965e-11	9.9965e-11
50	9.9999e-11	9.9964e-11	9.9964e-11
51	9.9999e-11	9.9964e-11	9.9964e-11
52	9.9999e-11	9.9963e-11	9.9963e-11
53	9.9999e-11	9.9962e-11	9.9962e-11
54	9.9999e-11	9.9961e-11	9.9961e-11
55	9.9999e-11	9.9961e-11	9.9961e-11
56	9.9999e-11	9.9960e-11	9.9960e-11
57	9.9999e-11	9.9959e-11	9.9959e-11
58	9.9999e-11	9.9959e-11	9.9959e-11
59	9.9999e-11	9.9958e-11	9.9958e-11
60	9.9999e-11	9.9957e-11	9.9957e-11
61	9.9999e-11	9.9957e-11	9.9957e-11
62	9.9999e-11	9.9956e-11	9.9956e-11
63	9.9999e-11	9.9955e-11	9.9955e-11
64	9.9999e-11	9.9954e-11	9.9954e-11
65	9.9999e-11	9.9954e-11	9.9954e-11
66	9.9999e-11	9.9953e-11	9.9953e-11
67	9.9999e-11	9.9952e-11	9.9952e-11
68	9.9999e-11	9.9952e-11	9.9952e-11
69	9.9999e-11	9.9951e-11	9.9951e-11
70	9.9999e-11	9.9950e-11	9.9950e-11
71	9.9999e-11	9.9950e-11	9.9950e-11
72	9.9999e-11	9.9949e-11	9.9949e-11
73	9.9999e-11	9.9948e-11	9.9948e-11
74	9.9999e-11	9.9948e-11	9.9948e-11
75	9.9999e-11	9.9947e-11	9.9947e-11
76	9.9999e-11	9.9946e-11	9.9946e-11
77	9.9999e-11	9.9945e-11	9.9945e-11
78	9.9999e-11	9.9945e-11	9.9945e-11
79	9.9999e-11	9.9944e-11	9.9944e-11
80	9.9999e-11	9.9943e-11	9.9943e-11
81	9.9999e-11	9.9943e-11	9.9943e-11
82	9.9999e-11	9.9942e-11	9.9942e-11
83	9.9999e-11	9.9941e-11	9.9941e-11
84	9.9999e-11	9.9941e-11	9.9941e-11
85	9.9999e-11	9.9940e-11	9.9940e-11
86	9.9999e-11	9.9939e-11	9.9939e-11

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x	$A(x)$	P_{v1}	P_{v2}
87	9.9999e-11	9.9938e-11	9.9938e-11
88	9.9999e-11	9.9938e-11	9.9938e-11
89	9.9999e-11	9.9937e-11	9.9937e-11
90	9.9999e-11	9.9936e-11	9.9936e-11
91	9.9999e-11	9.9936e-11	9.9936e-11
92	9.9999e-11	9.9935e-11	9.9935e-11
93	9.9999e-11	9.9934e-11	9.9934e-11
94	9.9999e-11	9.9934e-11	9.9934e-11
95	9.9999e-11	9.9933e-11	9.9933e-11
96	9.9999e-11	9.9932e-11	9.9932e-11
97	9.9999e-11	9.9932e-11	9.9932e-11
98	9.9999e-11	9.9931e-11	9.9931e-11
99	9.9999e-11	9.9930e-11	9.9930e-11
100	9.9999e-11	9.9929e-11	9.9929e-11
101	9.9999e-11	9.9929e-11	9.9929e-11
102	9.9999e-11	9.9928e-11	9.9928e-11
103	9.9999e-11	9.9927e-11	9.9927e-11
104	9.9999e-11	9.9927e-11	9.9927e-11
105	9.9999e-11	9.9926e-11	9.9926e-11
106	9.9999e-11	9.9925e-11	9.9925e-11
107	9.9999e-11	9.9925e-11	9.9925e-11
108	9.9999e-11	9.9924e-11	9.9924e-11
109	9.9999e-11	9.9923e-11	9.9923e-11
110	9.9999e-11	9.9922e-11	9.9922e-11
111	9.9999e-11	9.9922e-11	9.9922e-11
112	9.9999e-11	9.9921e-11	9.9921e-11
113	9.9999e-11	9.9920e-11	9.9920e-11
114	9.9999e-11	9.9920e-11	9.9920e-11
115	9.9999e-11	9.9919e-11	9.9919e-11
116	9.9999e-11	9.9918e-11	9.9918e-11
117	9.9999e-11	9.9918e-11	9.9918e-11
118	9.9999e-11	9.9917e-11	9.9917e-11
119	9.9999e-11	9.9916e-11	9.9916e-11
120	9.9999e-11	9.9915e-11	9.9915e-11
121	9.9999e-11	9.9915e-11	9.9915e-11
122	9.9999e-11	9.9914e-11	9.9914e-11
123	9.9999e-11	9.9913e-11	9.9913e-11
124	9.9999e-11	9.9913e-11	9.9913e-11
125	9.9999e-11	9.9912e-11	9.9912e-11
126	9.9999e-11	9.9911e-11	9.9911e-11

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x	$A(x)$	P_{v1}	P_{v2}
127	9.9999e-11	9.9911e-11	9.9911e-11
128	9.9999e-11	9.9910e-11	9.9910e-11
129	9.9999e-11	9.9909e-11	9.9909e-11
130	9.9999e-11	9.9909e-11	9.9909e-11
131	9.9999e-11	9.9908e-11	9.9908e-11
132	9.9999e-11	9.9907e-11	9.9907e-11
133	9.9999e-11	9.9906e-11	9.9906e-11
134	9.9999e-11	9.9906e-11	9.9906e-11
135	9.9999e-11	9.9905e-11	9.9905e-11
136	9.9999e-11	9.9904e-11	9.9904e-11
137	9.9999e-11	9.9904e-11	9.9904e-11
138	9.9999e-11	9.9903e-11	9.9903e-11
139	9.9999e-11	9.9902e-11	9.9902e-11
140	9.9999e-11	9.9902e-11	9.9902e-11
141	9.9999e-11	9.9901e-11	9.9901e-11
142	9.9999e-11	9.9900e-11	9.9900e-11
143	9.9999e-11	9.9899e-11	9.9899e-11
144	9.9999e-11	9.9899e-11	9.9899e-11
145	9.9999e-11	9.9898e-11	9.9898e-11
146	9.9999e-11	9.9897e-11	9.9897e-11
147	9.9999e-11	9.9897e-11	9.9897e-11
148	9.9999e-11	9.9896e-11	9.9896e-11
149	9.9999e-11	9.9895e-11	9.9895e-11
150	9.9999e-11	9.9895e-11	9.9895e-11
151	9.9999e-11	9.9894e-11	9.9894e-11
152	9.9999e-11	9.9893e-11	9.9893e-11
153	9.9999e-11	9.9892e-11	9.9892e-11
154	9.9999e-11	9.9892e-11	9.9892e-11
155	9.9999e-11	9.9891e-11	9.9891e-11
156	9.9999e-11	9.9890e-11	9.9890e-11
157	9.9999e-11	9.9890e-11	9.9890e-11
158	9.9999e-11	9.9889e-11	9.9889e-11
159	9.9999e-11	9.9888e-11	9.9888e-11
160	9.9999e-11	9.9888e-11	9.9888e-11
161	9.9999e-11	9.9887e-11	9.9887e-11
162	9.9999e-11	9.9886e-11	9.9886e-11
163	9.9999e-11	9.9885e-11	9.9885e-11
164	9.9999e-11	9.9885e-11	9.9885e-11
165	9.9999e-11	9.9884e-11	9.9884e-11
166	9.9999e-11	9.9883e-11	9.9883e-11

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x	$A(x)$	P_{v1}	P_{v2}
167	9.9999e-11	9.9883e-11	9.9883e-11
168	9.9999e-11	9.9882e-11	9.9882e-11
169	9.9999e-11	9.9881e-11	9.9881e-11
170	9.9999e-11	9.9881e-11	9.9881e-11
171	9.9999e-11	9.9880e-11	9.9880e-11
172	9.9999e-11	9.9879e-11	9.9879e-11
173	9.9999e-11	9.9878e-11	9.9878e-11
174	9.9999e-11	9.9878e-11	9.9878e-11
175	9.9999e-11	9.9877e-11	9.9877e-11
176	9.9999e-11	9.9876e-11	9.9876e-11
177	9.9999e-11	9.9876e-11	9.9876e-11
178	9.9999e-11	9.9875e-11	9.9875e-11
179	9.9999e-11	9.9874e-11	9.9874e-11
180	9.9999e-11	9.9874e-11	9.9874e-11
181	9.9999e-11	9.9873e-11	9.9873e-11
182	9.9999e-11	9.9872e-11	9.9872e-11
183	9.9999e-11	9.9871e-11	9.9871e-11
184	9.9999e-11	9.9871e-11	9.9871e-11
185	9.9999e-11	9.9870e-11	9.9870e-11
186	9.9999e-11	9.9869e-11	9.9869e-11
187	9.9999e-11	9.9869e-11	9.9869e-11
188	9.9999e-11	9.9868e-11	9.9868e-11
189	9.9999e-11	9.9867e-11	9.9867e-11
190	9.9999e-11	9.9867e-11	9.9867e-11
191	9.9999e-11	9.9866e-11	9.9866e-11
192	9.9999e-11	9.9865e-11	9.9865e-11
193	9.9999e-11	9.9864e-11	9.9864e-11
194	9.9999e-11	9.9864e-11	9.9864e-11
195	9.9999e-11	9.9863e-11	9.9863e-11
196	9.9999e-11	9.9862e-11	9.9862e-11
197	9.9999e-11	9.9862e-11	9.9862e-11
198	9.9999e-11	9.9861e-11	9.9861e-11
199	9.9999e-11	9.9860e-11	9.9860e-11
200	9.9999e-11	9.9860e-11	9.9860e-11
201	9.9999e-11	9.9859e-11	9.9859e-11
202	9.9999e-11	9.9858e-11	9.9858e-11
203	9.9999e-11	9.9857e-11	9.9857e-11
204	9.9999e-11	9.9857e-11	9.9857e-11
205	9.9999e-11	9.9856e-11	9.9856e-11
206	9.9999e-11	9.9855e-11	9.9855e-11

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x	$A(x)$	P_{v1}	P_{v2}
207	9.9999e-11	9.9855e-11	9.9855e-11
208	9.9999e-11	9.9854e-11	9.9854e-11
209	9.9999e-11	9.9853e-11	9.9853e-11
210	9.9999e-11	9.9853e-11	9.9853e-11
211	9.9999e-11	9.9852e-11	9.9852e-11
212	9.9999e-11	9.9851e-11	9.9851e-11
213	9.9999e-11	9.9850e-11	9.9850e-11
214	9.9999e-11	9.9850e-11	9.9850e-11
215	9.9999e-11	9.9849e-11	9.9849e-11
216	9.9999e-11	9.9848e-11	9.9848e-11
217	9.9999e-11	9.9848e-11	9.9848e-11
218	9.9999e-11	9.9847e-11	9.9847e-11
219	9.9999e-11	9.9846e-11	9.9846e-11
220	9.9999e-11	9.9846e-11	9.9846e-11
221	9.9999e-11	9.9845e-11	9.9845e-11
222	9.9999e-11	9.9844e-11	9.9844e-11
223	9.9999e-11	9.9843e-11	9.9843e-11
224	9.9999e-11	9.9843e-11	9.9843e-11
225	9.9999e-11	9.9842e-11	9.9842e-11
226	9.9999e-11	9.9841e-11	9.9841e-11
227	9.9999e-11	9.9841e-11	9.9841e-11
228	9.9999e-11	9.9840e-11	9.9840e-11
229	9.9999e-11	9.9839e-11	9.9839e-11
230	9.9999e-11	9.9839e-11	9.9839e-11
231	9.9999e-11	9.9838e-11	9.9838e-11
232	9.9999e-11	9.9837e-11	9.9837e-11
233	9.9999e-11	9.9836e-11	9.9836e-11
234	9.9999e-11	9.9836e-11	9.9836e-11
235	9.9999e-11	9.9835e-11	9.9835e-11
236	9.9999e-11	9.9834e-11	9.9834e-11
237	9.9999e-11	9.9834e-11	9.9834e-11
238	9.9999e-11	9.9833e-11	9.9833e-11
239	9.9999e-11	9.9832e-11	9.9832e-11
240	9.9999e-11	9.9832e-11	9.9832e-11
241	9.9999e-11	9.9831e-11	9.9831e-11
242	9.9999e-11	9.9830e-11	9.9830e-11
243	9.9999e-11	9.9829e-11	9.9829e-11
244	9.9999e-11	9.9829e-11	9.9829e-11
245	9.9999e-11	9.9828e-11	9.9828e-11
246	9.9999e-11	9.9827e-11	9.9827e-11

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x	$A(x)$	P_{v1}	P_{v2}
247	9.9999e-11	9.9827e-11	9.9827e-11
248	9.9999e-11	9.9826e-11	9.9826e-11
249	9.9999e-11	9.9825e-11	9.9825e-11
250	9.9999e-11	9.9825e-11	9.9825e-11
251	9.9999e-11	9.9824e-11	9.9824e-11
252	9.9999e-11	9.9823e-11	9.9823e-11
253	9.9999e-11	9.9822e-11	9.9822e-11
254	9.9999e-11	9.9822e-11	9.9822e-11
255	9.9999e-11	9.9821e-11	9.9821e-11
256	9.9999e-11	9.9820e-11	9.9820e-11
257	9.9999e-11	9.9820e-11	9.9820e-11
258	9.9999e-11	9.9819e-11	9.9819e-11
259	9.9999e-11	9.9818e-11	9.9818e-11
260	9.9999e-11	9.9818e-11	9.9818e-11
261	9.9999e-11	9.9817e-11	9.9817e-11
262	9.9999e-11	9.9816e-11	9.9816e-11
263	9.9999e-11	9.9815e-11	9.9815e-11
264	9.9999e-11	9.9815e-11	9.9815e-11
265	9.9999e-11	9.9814e-11	9.9814e-11
266	9.9999e-11	9.9813e-11	9.9813e-11
267	9.9999e-11	9.9813e-11	9.9813e-11
268	9.9999e-11	9.9812e-11	9.9812e-11
269	9.9999e-11	9.9811e-11	9.9811e-11
270	9.9999e-11	9.9810e-11	9.9810e-11
271	9.9999e-11	9.9810e-11	9.9810e-11
272	9.9999e-11	9.9809e-11	9.9809e-11
273	9.9999e-11	9.9808e-11	9.9808e-11
274	9.9999e-11	9.9808e-11	9.9808e-11
275	9.9999e-11	9.9807e-11	9.9807e-11
276	9.9999e-11	9.9806e-11	9.9806e-11
277	9.9999e-11	9.9806e-11	9.9806e-11
278	9.9999e-11	9.9805e-11	9.9805e-11
279	9.9999e-11	9.9804e-11	9.9804e-11
280	9.9999e-11	9.9803e-11	9.9803e-11
281	9.9999e-11	9.9803e-11	9.9803e-11
282	9.9999e-11	9.9802e-11	9.9802e-11
283	9.9999e-11	9.9801e-11	9.9801e-11
284	9.9999e-11	9.9801e-11	9.9801e-11
285	9.9999e-11	9.9800e-11	9.9800e-11
286	9.9999e-11	9.9799e-11	9.9799e-11

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x	$A(x)$	P_{v1}	P_{v2}
287	9.9999e-11	9.9799e-11	9.9799e-11
288	9.9999e-11	9.9798e-11	9.9798e-11
289	9.9999e-11	9.9797e-11	9.9797e-11
290	9.9999e-11	9.9796e-11	9.9796e-11
291	9.9999e-11	9.9796e-11	9.9796e-11
292	9.9999e-11	9.9795e-11	9.9795e-11
293	9.9999e-11	9.9794e-11	9.9794e-11
294	9.9999e-11	9.9794e-11	9.9794e-11
295	9.9999e-11	9.9793e-11	9.9793e-11
296	9.9999e-11	9.9792e-11	9.9792e-11
297	9.9999e-11	9.9792e-11	9.9792e-11
298	9.9999e-11	9.9791e-11	9.9791e-11
299	9.9999e-11	9.9790e-11	9.9790e-11
300	9.9999e-11	9.9789e-11	9.9789e-11
301	9.9999e-11	9.9789e-11	9.9789e-11
302	9.9999e-11	9.9788e-11	9.9788e-11
303	9.9999e-11	9.9787e-11	9.9787e-11
304	9.9999e-11	9.9787e-11	9.9787e-11
305	9.9999e-11	9.9786e-11	9.9786e-11
306	9.9999e-11	9.9785e-11	9.9785e-11
307	9.9999e-11	9.9784e-11	9.9784e-11
308	9.9999e-11	9.9784e-11	9.9784e-11
309	9.9999e-11	9.9783e-11	9.9783e-11
310	9.9999e-11	9.9782e-11	9.9782e-11
311	9.9999e-11	9.9782e-11	9.9782e-11
312	9.9999e-11	9.9781e-11	9.9781e-11
313	9.9999e-11	9.9780e-11	9.9780e-11
314	9.9999e-11	9.9780e-11	9.9780e-11
315	9.9999e-11	9.9779e-11	9.9779e-11
316	9.9999e-11	9.9778e-11	9.9778e-11
317	9.9999e-11	9.9777e-11	9.9777e-11
318	9.9999e-11	9.9777e-11	9.9777e-11
319	9.9999e-11	9.9776e-11	9.9776e-11
320	9.9999e-11	9.9775e-11	9.9775e-11
321	9.9999e-11	9.9775e-11	9.9775e-11
322	9.9999e-11	9.9774e-11	9.9774e-11
323	9.9999e-11	9.9773e-11	9.9773e-11
324	9.9999e-11	9.9772e-11	9.9772e-11
325	9.9999e-11	9.9772e-11	9.9772e-11
326	9.9999e-11	9.9771e-11	9.9771e-11

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x	$A(x)$	P_{v1}	P_{v2}
327	9.9999e-11	9.9770e-11	9.9770e-11
328	9.9999e-11	9.9770e-11	9.9770e-11
329	9.9999e-11	9.9769e-11	9.9769e-11
330	9.9999e-11	9.9768e-11	9.9768e-11
331	9.9999e-11	9.9768e-11	9.9768e-11
332	9.9999e-11	9.9767e-11	9.9767e-11
333	9.9999e-11	9.9766e-11	9.9766e-11
334	9.9999e-11	9.9765e-11	9.9765e-11
335	9.9999e-11	9.9765e-11	9.9765e-11
336	9.9999e-11	9.9764e-11	9.9764e-11
337	9.9999e-11	9.9763e-11	9.9763e-11
338	9.9999e-11	9.9763e-11	9.9763e-11
339	9.9999e-11	9.9762e-11	9.9762e-11
340	9.9999e-11	9.9761e-11	9.9761e-11
341	9.9999e-11	9.9761e-11	9.9761e-11
342	9.9999e-11	9.9760e-11	9.9760e-11
343	9.9999e-11	9.9759e-11	9.9759e-11
344	9.9999e-11	9.9758e-11	9.9758e-11
345	9.9999e-11	9.9758e-11	9.9758e-11
346	9.9999e-11	9.9757e-11	9.9757e-11
347	9.9999e-11	9.9756e-11	9.9756e-11
348	9.9999e-11	9.9756e-11	9.9756e-11
349	9.9999e-11	9.9755e-11	9.9755e-11
350	9.9999e-11	9.9754e-11	9.9754e-11
351	9.9999e-11	9.9753e-11	9.9753e-11
352	9.9999e-11	9.9753e-11	9.9753e-11
353	9.9999e-11	9.9752e-11	9.9752e-11
354	9.9999e-11	9.9751e-11	9.9751e-11
355	9.9999e-11	9.9751e-11	9.9751e-11
356	9.9999e-11	9.9750e-11	9.9750e-11
357	9.9999e-11	9.9749e-11	9.9749e-11
358	9.9999e-11	9.9749e-11	9.9749e-11
359	9.9999e-11	9.9748e-11	9.9748e-11
360	9.9999e-11	9.9747e-11	9.9747e-11
361	9.9999e-11	9.9746e-11	9.9746e-11
362	9.9999e-11	9.9746e-11	9.9746e-11
363	9.9999e-11	9.9745e-11	9.9745e-11
364	9.9999e-11	9.9744e-11	9.9744e-11
365	9.9999e-11	9.9744e-11	9.9744e-11
366	9.9999e-11	9.9743e-11	9.9743e-11

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x	$A(x)$	P_{v1}	P_{v2}
367	9.9999e-11	9.9742e-11	9.9742e-11
368	9.9999e-11	9.9741e-11	9.9741e-11
369	9.9999e-11	9.9741e-11	9.9741e-11
370	9.9999e-11	9.9740e-11	9.9740e-11
371	9.9999e-11	9.9739e-11	9.9739e-11
372	9.9999e-11	9.9739e-11	9.9739e-11
373	9.9999e-11	9.9738e-11	9.9738e-11
374	9.9999e-11	9.9737e-11	9.9737e-11
375	9.9999e-11	9.9737e-11	9.9737e-11
376	9.9999e-11	9.9736e-11	9.9736e-11
377	9.9999e-11	9.9735e-11	9.9735e-11
378	9.9999e-11	9.9734e-11	9.9734e-11
379	9.9999e-11	9.9734e-11	9.9734e-11
380	9.9999e-11	9.9733e-11	9.9733e-11
381	9.9999e-11	9.9732e-11	9.9732e-11
382	9.9999e-11	9.9732e-11	9.9732e-11
383	9.9999e-11	9.9731e-11	9.9731e-11
384	9.9999e-11	9.9730e-11	9.9730e-11
385	9.9999e-11	9.9729e-11	9.9729e-11
386	9.9999e-11	9.9729e-11	9.9729e-11
387	9.9999e-11	9.9728e-11	9.9728e-11
388	9.9999e-11	9.9727e-11	9.9727e-11
389	9.9999e-11	9.9727e-11	9.9727e-11
390	9.9999e-11	9.9726e-11	9.9726e-11
391	9.9999e-11	9.9725e-11	9.9725e-11
392	9.9999e-11	9.9725e-11	9.9725e-11
393	9.9999e-11	9.9724e-11	9.9724e-11
394	9.9999e-11	9.9723e-11	9.9723e-11
395	9.9999e-11	9.9722e-11	9.9722e-11
396	9.9999e-11	9.9722e-11	9.9722e-11
397	9.9999e-11	9.9721e-11	9.9721e-11
398	9.9999e-11	9.9720e-11	9.9720e-11
399	9.9999e-11	9.9720e-11	9.9720e-11
400	9.9999e-11	9.9719e-11	9.9719e-11
401	9.9999e-11	9.9718e-11	9.9718e-11
402	9.9999e-11	9.9717e-11	9.9717e-11
403	9.9999e-11	9.9717e-11	9.9717e-11
404	9.9999e-11	9.9716e-11	9.9716e-11
405	9.9999e-11	9.9715e-11	9.9715e-11
406	9.9999e-11	9.9715e-11	9.9715e-11

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x	$A(x)$	P_{v1}	P_{v2}
407	9.9999e-11	9.9714e-11	9.9714e-11
408	9.9999e-11	9.9713e-11	9.9713e-11
409	9.9999e-11	9.9712e-11	9.9712e-11
410	9.9999e-11	9.9712e-11	9.9712e-11
411	9.9999e-11	9.9711e-11	9.9711e-11
412	9.9999e-11	9.9710e-11	9.9710e-11
413	9.9999e-11	9.9710e-11	9.9710e-11
414	9.9999e-11	9.9709e-11	9.9709e-11
415	9.9999e-11	9.9708e-11	9.9708e-11
416	9.9999e-11	9.9708e-11	9.9708e-11
417	9.9999e-11	9.9707e-11	9.9707e-11
418	9.9999e-11	9.9706e-11	9.9706e-11
419	9.9999e-11	9.9705e-11	9.9705e-11
420	9.9999e-11	9.9705e-11	9.9705e-11
421	9.9999e-11	9.9704e-11	9.9704e-11
422	9.9999e-11	9.9703e-11	9.9703e-11
423	9.9999e-11	9.9703e-11	9.9703e-11
424	9.9999e-11	9.9702e-11	9.9702e-11
425	9.9999e-11	9.9701e-11	9.9701e-11
426	9.9999e-11	9.9700e-11	9.9700e-11
427	9.9999e-11	9.9700e-11	9.9700e-11
428	9.9999e-11	9.9699e-11	9.9699e-11
429	9.9999e-11	9.9698e-11	9.9698e-11
430	9.9999e-11	9.9698e-11	9.9698e-11
431	9.9999e-11	9.9697e-11	9.9697e-11
432	9.9999e-11	9.9696e-11	9.9696e-11
433	9.9999e-11	9.9696e-11	9.9696e-11
434	9.9999e-11	9.9695e-11	9.9695e-11
435	9.9999e-11	9.9694e-11	9.9694e-11
436	9.9999e-11	9.9693e-11	9.9693e-11
437	9.9999e-11	9.9693e-11	9.9693e-11
438	9.9999e-11	9.9692e-11	9.9692e-11
439	9.9999e-11	9.9691e-11	9.9691e-11
440	9.9999e-11	9.9691e-11	9.9691e-11
441	9.9999e-11	9.9690e-11	9.9690e-11
442	9.9999e-11	9.9689e-11	9.9689e-11
443	9.9999e-11	9.9688e-11	9.9688e-11
444	9.9999e-11	9.9688e-11	9.9688e-11
445	9.9999e-11	9.9687e-11	9.9687e-11
446	9.9999e-11	9.9686e-11	9.9686e-11

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x	$A(x)$	P_{v1}	P_{v2}
447	9.9999e-11	9.9686e-11	9.9686e-11
448	9.9999e-11	9.9685e-11	9.9685e-11
449	9.9999e-11	9.9684e-11	9.9684e-11
450	9.9999e-11	9.9683e-11	9.9683e-11
451	9.9999e-11	9.9683e-11	9.9683e-11
452	9.9999e-11	9.9682e-11	9.9682e-11
453	9.9999e-11	9.9681e-11	9.9681e-11
454	9.9999e-11	9.9681e-11	9.9681e-11
455	9.9999e-11	9.9680e-11	9.9680e-11
456	9.9999e-11	9.9679e-11	9.9679e-11
457	9.9999e-11	9.9679e-11	9.9679e-11
458	9.9999e-11	9.9678e-11	9.9678e-11
459	9.9999e-11	9.9677e-11	9.9677e-11
460	9.9999e-11	9.9676e-11	9.9676e-11
461	9.9999e-11	9.9676e-11	9.9676e-11
462	9.9999e-11	9.9675e-11	9.9675e-11
463	9.9999e-11	9.9674e-11	9.9674e-11
464	9.9999e-11	9.9674e-11	9.9674e-11
465	9.9999e-11	9.9673e-11	9.9673e-11
466	9.9999e-11	9.9672e-11	9.9672e-11
467	9.9999e-11	9.9671e-11	9.9671e-11
468	9.9999e-11	9.9671e-11	9.9671e-11
469	9.9999e-11	9.9670e-11	9.9670e-11
470	9.9999e-11	9.9669e-11	9.9669e-11
471	9.9999e-11	9.9669e-11	9.9669e-11
472	9.9999e-11	9.9668e-11	9.9668e-11
473	9.9999e-11	9.9667e-11	9.9667e-11
474	9.9999e-11	9.9666e-11	9.9666e-11
475	9.9999e-11	9.9666e-11	9.9666e-11
476	9.9999e-11	9.9665e-11	9.9665e-11
477	9.9999e-11	9.9664e-11	9.9664e-11
478	9.9999e-11	9.9664e-11	9.9664e-11
479	9.9999e-11	9.9663e-11	9.9663e-11
480	9.9999e-11	9.9662e-11	9.9662e-11
481	9.9999e-11	9.9661e-11	9.9661e-11
482	9.9999e-11	9.9661e-11	9.9661e-11
483	9.9999e-11	9.9660e-11	9.9660e-11
484	9.9999e-11	9.9659e-11	9.9659e-11
485	9.9999e-11	9.9659e-11	9.9659e-11
486	9.9999e-11	9.9658e-11	9.9658e-11

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x	$A(x)$	P_{v1}	P_{v2}
487	9.9999e-11	9.9657e-11	9.9657e-11
488	9.9999e-11	9.9657e-11	9.9657e-11
489	9.9999e-11	9.9656e-11	9.9656e-11
490	9.9999e-11	9.9655e-11	9.9655e-11
491	9.9999e-11	9.9654e-11	9.9654e-11
492	9.9999e-11	9.9654e-11	9.9654e-11
493	9.9999e-11	9.9653e-11	9.9653e-11
494	9.9999e-11	9.9652e-11	9.9652e-11
495	9.9999e-11	9.9652e-11	9.9652e-11
496	9.9999e-11	9.9651e-11	9.9651e-11
497	9.9999e-11	9.9650e-11	9.9650e-11
498	9.9999e-11	9.9649e-11	9.9649e-11
499	9.9999e-11	9.9649e-11	9.9649e-11
500	9.9999e-11	9.9648e-11	9.9648e-11
501	9.9999e-11	9.9647e-11	9.9647e-11
502	9.9999e-11	9.9647e-11	9.9647e-11
503	9.9999e-11	9.9646e-11	9.9646e-11
504	9.9999e-11	9.9645e-11	9.9645e-11
505	9.9999e-11	9.9644e-11	9.9644e-11
506	9.9999e-11	9.9644e-11	9.9644e-11
507	9.9999e-11	9.9643e-11	9.9643e-11
508	9.9999e-11	9.9642e-11	9.9642e-11
509	9.9999e-11	9.9642e-11	9.9642e-11
510	9.9999e-11	9.9641e-11	9.9641e-11
511	9.9999e-11	9.9640e-11	9.9640e-11
512	9.9999e-11	9.9639e-11	9.9639e-11
513	9.9999e-11	9.9639e-11	9.9639e-11
514	9.9999e-11	9.9638e-11	9.9638e-11
515	9.9999e-11	9.9637e-11	9.9637e-11
516	9.9999e-11	9.9637e-11	9.9637e-11
517	9.9999e-11	9.9636e-11	9.9636e-11
518	9.9999e-11	9.9635e-11	9.9635e-11
519	9.9999e-11	9.9634e-11	9.9634e-11
520	9.9999e-11	9.9634e-11	9.9634e-11
521	9.9999e-11	9.9633e-11	9.9633e-11
522	9.9999e-11	9.9632e-11	9.9632e-11
523	9.9999e-11	9.9632e-11	9.9632e-11
524	9.9999e-11	9.9631e-11	9.9631e-11
525	9.9999e-11	9.9630e-11	9.9630e-11
526	9.9999e-11	9.9630e-11	9.9630e-11

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x	$A(x)$	P_{v1}	P_{v2}
527	9.9999e-11	9.9629e-11	9.9629e-11
528	9.9999e-11	9.9628e-11	9.9628e-11
529	9.9999e-11	9.9627e-11	9.9627e-11
530	9.9999e-11	9.9627e-11	9.9627e-11
531	9.9999e-11	9.9626e-11	9.9626e-11
532	9.9999e-11	9.9625e-11	9.9625e-11
533	9.9999e-11	9.9625e-11	9.9625e-11
534	9.9999e-11	9.9624e-11	9.9624e-11
535	9.9999e-11	9.9623e-11	9.9623e-11
536	9.9999e-11	9.9622e-11	9.9622e-11
537	9.9999e-11	9.9622e-11	9.9622e-11
538	9.9999e-11	9.9621e-11	9.9621e-11
539	9.9999e-11	9.9620e-11	9.9620e-11
540	9.9999e-11	9.9620e-11	9.9620e-11
541	9.9999e-11	9.9619e-11	9.9619e-11
542	9.9999e-11	9.9618e-11	9.9618e-11
543	9.9999e-11	9.9617e-11	9.9617e-11
544	9.9999e-11	9.9617e-11	9.9617e-11
545	9.9999e-11	9.9616e-11	9.9616e-11
546	9.9999e-11	9.9615e-11	9.9615e-11
547	9.9999e-11	9.9615e-11	9.9615e-11
548	9.9999e-11	9.9614e-11	9.9614e-11
549	9.9999e-11	9.9613e-11	9.9613e-11
550	9.9999e-11	9.9612e-11	9.9612e-11
551	9.9999e-11	9.9612e-11	9.9612e-11
552	9.9999e-11	9.9611e-11	9.9611e-11
553	9.9999e-11	9.9610e-11	9.9610e-11
554	9.9999e-11	9.9610e-11	9.9610e-11
555	9.9999e-11	9.9609e-11	9.9609e-11
556	9.9999e-11	9.9608e-11	9.9608e-11
557	9.9999e-11	9.9607e-11	9.9607e-11
558	9.9999e-11	9.9607e-11	9.9607e-11
559	9.9999e-11	9.9606e-11	9.9606e-11
560	9.9999e-11	9.9605e-11	9.9605e-11
561	9.9999e-11	9.9605e-11	9.9605e-11
562	9.9999e-11	9.9604e-11	9.9604e-11
563	9.9999e-11	9.9603e-11	9.9603e-11
564	9.9999e-11	9.9602e-11	9.9602e-11
565	9.9999e-11	9.9602e-11	9.9602e-11
566	9.9999e-11	9.9601e-11	9.9601e-11

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x	$A(x)$	P_{v1}	P_{v2}
567	9.9999e-11	9.9600e-11	9.9600e-11
568	9.9999e-11	9.9600e-11	9.9600e-11
569	9.9999e-11	9.9599e-11	9.9599e-11
570	9.9999e-11	9.9598e-11	9.9598e-11
571	9.9999e-11	9.9597e-11	9.9597e-11
572	9.9999e-11	9.9597e-11	9.9597e-11
573	9.9999e-11	9.9596e-11	9.9596e-11
574	9.9999e-11	9.9595e-11	9.9595e-11
575	9.9999e-11	9.9595e-11	9.9595e-11
576	9.9999e-11	9.9594e-11	9.9594e-11
577	9.9999e-11	9.9593e-11	9.9593e-11
578	9.9999e-11	9.9592e-11	9.9592e-11
579	9.9999e-11	9.9592e-11	9.9592e-11
580	9.9999e-11	9.9591e-11	9.9591e-11
581	9.9999e-11	9.9590e-11	9.9590e-11
582	9.9999e-11	9.9590e-11	9.9590e-11
583	9.9999e-11	9.9589e-11	9.9589e-11
584	9.9999e-11	9.9588e-11	9.9588e-11
585	9.9999e-11	9.9587e-11	9.9587e-11
586	9.9999e-11	9.9587e-11	9.9587e-11
587	9.9999e-11	9.9586e-11	9.9586e-11
588	9.9999e-11	9.9585e-11	9.9585e-11
589	9.9999e-11	9.9585e-11	9.9585e-11
590	9.9999e-11	9.9584e-11	9.9584e-11
591	9.9999e-11	9.9583e-11	9.9583e-11
592	9.9999e-11	9.9582e-11	9.9582e-11
593	9.9999e-11	9.9582e-11	9.9582e-11
594	9.9999e-11	9.9581e-11	9.9581e-11
595	9.9999e-11	9.9580e-11	9.9580e-11
596	9.9999e-11	9.9580e-11	9.9580e-11
597	9.9999e-11	9.9579e-11	9.9579e-11
598	9.9999e-11	9.9578e-11	9.9578e-11
599	9.9999e-11	9.9577e-11	9.9577e-11
600	9.9999e-11	9.9577e-11	9.9577e-11
601	9.9999e-11	9.9576e-11	9.9576e-11
602	9.9999e-11	9.9575e-11	9.9575e-11
603	9.9999e-11	9.9575e-11	9.9575e-11
604	9.9999e-11	9.9574e-11	9.9574e-11
605	9.9999e-11	9.9573e-11	9.9573e-11
606	9.9999e-11	9.9572e-11	9.9572e-11

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x	$A(x)$	P_{v1}	P_{v2}
607	9.9999e-11	9.9572e-11	9.9572e-11
608	9.9999e-11	9.9571e-11	9.9571e-11
609	9.9999e-11	9.9570e-11	9.9570e-11
610	9.9999e-11	9.9570e-11	9.9570e-11
611	9.9999e-11	9.9569e-11	9.9569e-11
612	9.9999e-11	9.9568e-11	9.9568e-11
613	9.9999e-11	9.9567e-11	9.9567e-11
614	9.9999e-11	9.9567e-11	9.9567e-11
615	9.9999e-11	9.9566e-11	9.9566e-11
616	9.9999e-11	9.9565e-11	9.9565e-11
617	9.9999e-11	9.9565e-11	9.9565e-11
618	9.9999e-11	9.9564e-11	9.9564e-11
619	9.9999e-11	9.9563e-11	9.9563e-11
620	9.9999e-11	9.9562e-11	9.9562e-11
621	9.9999e-11	9.9562e-11	9.9562e-11
622	9.9999e-11	9.9561e-11	9.9561e-11
623	9.9999e-11	9.9560e-11	9.9560e-11
624	9.9999e-11	9.9560e-11	9.9560e-11
625	9.9999e-11	9.9559e-11	9.9559e-11
626	9.9999e-11	9.9558e-11	9.9558e-11
627	9.9999e-11	9.9557e-11	9.9557e-11
628	9.9999e-11	9.9557e-11	9.9557e-11
629	9.9999e-11	9.9556e-11	9.9556e-11
630	9.9999e-11	9.9555e-11	9.9555e-11
631	9.9999e-11	9.9555e-11	9.9555e-11
632	9.9999e-11	9.9554e-11	9.9554e-11
633	9.9999e-11	9.9553e-11	9.9553e-11
634	9.9999e-11	9.9552e-11	9.9552e-11
635	9.9999e-11	9.9552e-11	9.9552e-11
636	9.9999e-11	9.9551e-11	9.9551e-11
637	9.9999e-11	9.9550e-11	9.9550e-11
638	9.9999e-11	9.9550e-11	9.9550e-11
639	9.9999e-11	9.9549e-11	9.9549e-11
640	9.9999e-11	9.9548e-11	9.9548e-11
641	9.9999e-11	9.9547e-11	9.9547e-11
642	9.9999e-11	9.9547e-11	9.9547e-11
643	9.9999e-11	9.9546e-11	9.9546e-11
644	9.9999e-11	9.9545e-11	9.9545e-11
645	9.9999e-11	9.9545e-11	9.9545e-11
646	9.9999e-11	9.9544e-11	9.9544e-11

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x	$A(x)$	P_{v1}	P_{v2}
647	9.9999e-11	9.9543e-11	9.9543e-11
648	9.9999e-11	9.9542e-11	9.9542e-11
649	9.9999e-11	9.9542e-11	9.9542e-11
650	9.9999e-11	9.9541e-11	9.9541e-11
651	9.9999e-11	9.9540e-11	9.9540e-11
652	9.9999e-11	9.9540e-11	9.9540e-11
653	9.9999e-11	9.9539e-11	9.9539e-11
654	9.9999e-11	9.9538e-11	9.9538e-11
655	9.9999e-11	9.9537e-11	9.9537e-11
656	9.9999e-11	9.9537e-11	9.9537e-11
657	9.9999e-11	9.9536e-11	9.9536e-11
658	9.9999e-11	9.9535e-11	9.9535e-11
659	9.9999e-11	9.9535e-11	9.9535e-11
660	9.9999e-11	9.9534e-11	9.9534e-11
661	9.9999e-11	9.9533e-11	9.9533e-11
662	9.9999e-11	9.9532e-11	9.9532e-11
663	9.9999e-11	9.9532e-11	9.9532e-11
664	9.9999e-11	9.9531e-11	9.9531e-11
665	9.9999e-11	9.9530e-11	9.9530e-11
666	9.9999e-11	9.9530e-11	9.9530e-11
667	9.9999e-11	9.9529e-11	9.9529e-11
668	9.9999e-11	9.9528e-11	9.9528e-11
669	9.9999e-11	9.9527e-11	9.9527e-11
670	9.9999e-11	9.9527e-11	9.9527e-11
671	9.9999e-11	9.9526e-11	9.9526e-11
672	9.9999e-11	9.9525e-11	9.9525e-11
673	9.9999e-11	9.9525e-11	9.9525e-11
674	9.9999e-11	9.9524e-11	9.9524e-11
675	9.9999e-11	9.9523e-11	9.9523e-11
676	9.9999e-11	9.9522e-11	9.9522e-11
677	9.9999e-11	9.9522e-11	9.9522e-11
678	9.9999e-11	9.9521e-11	9.9521e-11
679	9.9999e-11	9.9520e-11	9.9520e-11
680	9.9999e-11	9.9520e-11	9.9520e-11
681	9.9999e-11	9.9519e-11	9.9519e-11
682	9.9999e-11	9.9518e-11	9.9518e-11
683	9.9999e-11	9.9517e-11	9.9517e-11
684	9.9999e-11	9.9517e-11	9.9517e-11
685	9.9999e-11	9.9516e-11	9.9516e-11
686	9.9999e-11	9.9515e-11	9.9515e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
687	9.9999e-11	9.9515e-11	9.9515e-11
688	9.9999e-11	9.9514e-11	9.9514e-11
689	9.9999e-11	9.9513e-11	9.9513e-11
690	9.9999e-11	9.9512e-11	9.9512e-11
691	9.9999e-11	9.9512e-11	9.9512e-11
692	9.9999e-11	9.9511e-11	9.9511e-11
693	9.9999e-11	9.9510e-11	9.9510e-11
694	9.9999e-11	9.9510e-11	9.9510e-11
695	9.9999e-11	9.9509e-11	9.9509e-11
696	9.9999e-11	9.9508e-11	9.9508e-11
697	9.9999e-11	9.9507e-11	9.9507e-11
698	9.9999e-11	9.9507e-11	9.9507e-11
699	9.9999e-11	9.9506e-11	9.9506e-11
700	9.9999e-11	9.9505e-11	9.9505e-11
701	9.9999e-11	9.9505e-11	9.9505e-11
702	9.9999e-11	9.9504e-11	9.9504e-11
703	9.9999e-11	9.9503e-11	9.9503e-11
704	9.9999e-11	9.9502e-11	9.9502e-11
705	9.9999e-11	9.9502e-11	9.9502e-11
706	9.9999e-11	9.9501e-11	9.9501e-11
707	9.9999e-11	9.9500e-11	9.9500e-11
708	9.9999e-11	9.9499e-11	9.9499e-11
709	9.9999e-11	9.9499e-11	9.9499e-11
710	9.9999e-11	9.9498e-11	9.9498e-11
711	9.9999e-11	9.9497e-11	9.9497e-11
712	9.9999e-11	9.9497e-11	9.9497e-11
713	9.9999e-11	9.9496e-11	9.9496e-11
714	9.9999e-11	9.9495e-11	9.9495e-11
715	9.9999e-11	9.9494e-11	9.9494e-11
716	9.9999e-11	9.9494e-11	9.9494e-11
717	9.9999e-11	9.9493e-11	9.9493e-11
718	9.9999e-11	9.9492e-11	9.9492e-11
719	9.9999e-11	9.9492e-11	9.9492e-11
720	9.9999e-11	9.9491e-11	9.9491e-11
721	9.9999e-11	9.9490e-11	9.9490e-11
722	9.9999e-11	9.9489e-11	9.9489e-11
723	9.9999e-11	9.9489e-11	9.9489e-11
724	9.9999e-11	9.9488e-11	9.9488e-11
725	9.9999e-11	9.9487e-11	9.9487e-11
726	9.9999e-11	9.9487e-11	9.9487e-11

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x	$A(x)$	P_{v1}	P_{v2}
727	9.9999e-11	9.9486e-11	9.9486e-11
728	9.9999e-11	9.9485e-11	9.9485e-11
729	9.9999e-11	9.9484e-11	9.9484e-11
730	9.9999e-11	9.9484e-11	9.9484e-11
731	9.9999e-11	9.9483e-11	9.9483e-11
732	9.9999e-11	9.9482e-11	9.9482e-11
733	9.9999e-11	9.9482e-11	9.9482e-11
734	9.9999e-11	9.9481e-11	9.9481e-11
735	9.9999e-11	9.9480e-11	9.9480e-11
736	9.9999e-11	9.9479e-11	9.9479e-11
737	9.9999e-11	9.9479e-11	9.9479e-11
738	9.9999e-11	9.9478e-11	9.9478e-11
739	9.9999e-11	9.9477e-11	9.9477e-11
740	9.9999e-11	9.9477e-11	9.9477e-11
741	9.9999e-11	9.9476e-11	9.9476e-11
742	9.9999e-11	9.9475e-11	9.9475e-11
743	9.9999e-11	9.9474e-11	9.9474e-11
744	9.9999e-11	9.9474e-11	9.9474e-11
745	9.9999e-11	9.9473e-11	9.9473e-11
746	9.9999e-11	9.9472e-11	9.9472e-11
747	9.9999e-11	9.9471e-11	9.9471e-11
748	9.9999e-11	9.9471e-11	9.9471e-11
749	9.9999e-11	9.9470e-11	9.9470e-11
750	9.9999e-11	9.9469e-11	9.9469e-11
751	9.9999e-11	9.9469e-11	9.9469e-11
752	9.9999e-11	9.9468e-11	9.9468e-11
753	9.9999e-11	9.9467e-11	9.9467e-11
754	9.9999e-11	9.9466e-11	9.9466e-11
755	9.9999e-11	9.9466e-11	9.9466e-11
756	9.9999e-11	9.9465e-11	9.9465e-11
757	9.9999e-11	9.9464e-11	9.9464e-11
758	9.9999e-11	9.9464e-11	9.9464e-11
759	9.9999e-11	9.9463e-11	9.9463e-11
760	9.9999e-11	9.9462e-11	9.9462e-11
761	9.9999e-11	9.9461e-11	9.9461e-11
762	9.9999e-11	9.9461e-11	9.9461e-11
763	9.9999e-11	9.9460e-11	9.9460e-11
764	9.9999e-11	9.9459e-11	9.9459e-11
765	9.9999e-11	9.9459e-11	9.9459e-11
766	9.9999e-11	9.9458e-11	9.9458e-11

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x	$A(x)$	P_{v1}	P_{v2}
767	9.9999e-11	9.9457e-11	9.9457e-11
768	9.9999e-11	9.9456e-11	9.9456e-11
769	9.9999e-11	9.9456e-11	9.9456e-11
770	9.9999e-11	9.9455e-11	9.9455e-11
771	9.9999e-11	9.9454e-11	9.9454e-11
772	9.9999e-11	9.9454e-11	9.9454e-11
773	9.9999e-11	9.9453e-11	9.9453e-11
774	9.9999e-11	9.9452e-11	9.9452e-11
775	9.9999e-11	9.9451e-11	9.9451e-11
776	9.9999e-11	9.9451e-11	9.9451e-11
777	9.9999e-11	9.9450e-11	9.9450e-11
778	9.9999e-11	9.9449e-11	9.9449e-11
779	9.9999e-11	9.9448e-11	9.9448e-11
780	9.9999e-11	9.9448e-11	9.9448e-11
781	9.9999e-11	9.9447e-11	9.9447e-11
782	9.9999e-11	9.9446e-11	9.9446e-11
783	9.9999e-11	9.9446e-11	9.9446e-11
784	9.9999e-11	9.9445e-11	9.9445e-11
785	9.9999e-11	9.9444e-11	9.9444e-11
786	9.9999e-11	9.9443e-11	9.9443e-11
787	9.9999e-11	9.9443e-11	9.9443e-11
788	9.9999e-11	9.9442e-11	9.9442e-11
789	9.9999e-11	9.9441e-11	9.9441e-11
790	9.9999e-11	9.9441e-11	9.9441e-11
791	9.9999e-11	9.9440e-11	9.9440e-11
792	9.9999e-11	9.9439e-11	9.9439e-11
793	9.9999e-11	9.9438e-11	9.9438e-11
794	9.9999e-11	9.9438e-11	9.9438e-11
795	9.9999e-11	9.9437e-11	9.9437e-11
796	9.9999e-11	9.9436e-11	9.9436e-11
797	9.9999e-11	9.9436e-11	9.9436e-11
798	9.9999e-11	9.9435e-11	9.9435e-11
799	9.9999e-11	9.9434e-11	9.9434e-11
800	9.9999e-11	9.9433e-11	9.9433e-11
801	9.9999e-11	9.9433e-11	9.9433e-11
802	9.9999e-11	9.9432e-11	9.9432e-11
803	9.9999e-11	9.9431e-11	9.9431e-11
804	9.9999e-11	9.9430e-11	9.9430e-11
805	9.9999e-11	9.9430e-11	9.9430e-11
806	9.9999e-11	9.9429e-11	9.9429e-11

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x	$A(x)$	P_{v1}	P_{v2}
807	9.9999e-11	9.9428e-11	9.9428e-11
808	9.9999e-11	9.9428e-11	9.9428e-11
809	9.9999e-11	9.9427e-11	9.9427e-11
810	9.9999e-11	9.9426e-11	9.9426e-11
811	9.9999e-11	9.9425e-11	9.9425e-11
812	9.9999e-11	9.9425e-11	9.9425e-11
813	9.9999e-11	9.9424e-11	9.9424e-11
814	9.9999e-11	9.9423e-11	9.9423e-11
815	9.9999e-11	9.9423e-11	9.9423e-11
816	9.9999e-11	9.9422e-11	9.9422e-11
817	9.9999e-11	9.9421e-11	9.9421e-11
818	9.9999e-11	9.9420e-11	9.9420e-11
819	9.9999e-11	9.9420e-11	9.9420e-11
820	9.9999e-11	9.9419e-11	9.9419e-11
821	9.9999e-11	9.9418e-11	9.9418e-11
822	9.9999e-11	9.9417e-11	9.9417e-11
823	9.9999e-11	9.9417e-11	9.9417e-11
824	9.9999e-11	9.9416e-11	9.9416e-11
825	9.9999e-11	9.9415e-11	9.9415e-11
826	9.9999e-11	9.9415e-11	9.9415e-11
827	9.9999e-11	9.9414e-11	9.9414e-11
828	9.9999e-11	9.9413e-11	9.9413e-11
829	9.9999e-11	9.9412e-11	9.9412e-11
830	9.9999e-11	9.9412e-11	9.9412e-11
831	9.9999e-11	9.9411e-11	9.9411e-11
832	9.9999e-11	9.9410e-11	9.9410e-11
833	9.9999e-11	9.9410e-11	9.9410e-11
834	9.9999e-11	9.9409e-11	9.9409e-11
835	9.9999e-11	9.9408e-11	9.9408e-11
836	9.9999e-11	9.9407e-11	9.9407e-11
837	9.9999e-11	9.9407e-11	9.9407e-11
838	9.9999e-11	9.9406e-11	9.9406e-11
839	9.9999e-11	9.9405e-11	9.9405e-11
840	9.9999e-11	9.9404e-11	9.9404e-11
841	9.9999e-11	9.9404e-11	9.9404e-11
842	9.9999e-11	9.9403e-11	9.9403e-11
843	9.9999e-11	9.9402e-11	9.9402e-11
844	9.9999e-11	9.9402e-11	9.9402e-11
845	9.9999e-11	9.9401e-11	9.9401e-11
846	9.9999e-11	9.9400e-11	9.9400e-11

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x	$A(x)$	P_{v1}	P_{v2}
847	9.9999e-11	9.9399e-11	9.9399e-11
848	9.9999e-11	9.9399e-11	9.9399e-11
849	9.9999e-11	9.9398e-11	9.9398e-11
850	9.9999e-11	9.9397e-11	9.9397e-11
851	9.9999e-11	9.9397e-11	9.9397e-11
852	9.9999e-11	9.9396e-11	9.9396e-11
853	9.9999e-11	9.9395e-11	9.9395e-11
854	9.9999e-11	9.9394e-11	9.9394e-11
855	9.9999e-11	9.9394e-11	9.9394e-11
856	9.9999e-11	9.9393e-11	9.9393e-11
857	9.9999e-11	9.9392e-11	9.9392e-11
858	9.9999e-11	9.9391e-11	9.9391e-11
859	9.9999e-11	9.9391e-11	9.9391e-11
860	9.9999e-11	9.9390e-11	9.9390e-11
861	9.9999e-11	9.9389e-11	9.9389e-11
862	9.9999e-11	9.9389e-11	9.9389e-11
863	9.9999e-11	9.9388e-11	9.9388e-11
864	9.9999e-11	9.9387e-11	9.9387e-11
865	9.9999e-11	9.9386e-11	9.9386e-11
866	9.9999e-11	9.9386e-11	9.9386e-11
867	9.9999e-11	9.9385e-11	9.9385e-11
868	9.9999e-11	9.9384e-11	9.9384e-11
869	9.9999e-11	9.9384e-11	9.9384e-11
870	9.9999e-11	9.9383e-11	9.9383e-11
871	9.9999e-11	9.9382e-11	9.9382e-11
872	9.9999e-11	9.9381e-11	9.9381e-11
873	9.9999e-11	9.9381e-11	9.9381e-11
874	9.9999e-11	9.9380e-11	9.9380e-11
875	9.9999e-11	9.9379e-11	9.9379e-11
876	9.9999e-11	9.9378e-11	9.9378e-11
877	9.9999e-11	9.9378e-11	9.9378e-11
878	9.9999e-11	9.9377e-11	9.9377e-11
879	9.9999e-11	9.9376e-11	9.9376e-11
880	9.9999e-11	9.9376e-11	9.9376e-11
881	9.9999e-11	9.9375e-11	9.9375e-11
882	9.9999e-11	9.9374e-11	9.9374e-11
883	9.9999e-11	9.9373e-11	9.9373e-11
884	9.9999e-11	9.9373e-11	9.9373e-11
885	9.9999e-11	9.9372e-11	9.9372e-11
886	9.9999e-11	9.9371e-11	9.9371e-11

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x	$A(x)$	P_{v1}	P_{v2}
887	9.9999e-11	9.9371e-11	9.9371e-11
888	9.9999e-11	9.9370e-11	9.9370e-11
889	9.9999e-11	9.9369e-11	9.9369e-11
890	9.9999e-11	9.9368e-11	9.9368e-11
891	9.9999e-11	9.9368e-11	9.9368e-11
892	9.9999e-11	9.9367e-11	9.9367e-11
893	9.9999e-11	9.9366e-11	9.9366e-11
894	9.9999e-11	9.9365e-11	9.9365e-11
895	9.9999e-11	9.9365e-11	9.9365e-11
896	9.9999e-11	9.9364e-11	9.9364e-11
897	9.9999e-11	9.9363e-11	9.9363e-11
898	9.9999e-11	9.9363e-11	9.9363e-11
899	9.9999e-11	9.9362e-11	9.9362e-11
900	9.9999e-11	9.9361e-11	9.9361e-11
901	9.9999e-11	9.9360e-11	9.9360e-11
902	9.9999e-11	9.9360e-11	9.9360e-11
903	9.9999e-11	9.9359e-11	9.9359e-11
904	9.9999e-11	9.9358e-11	9.9358e-11
905	9.9999e-11	9.9357e-11	9.9357e-11
906	9.9999e-11	9.9357e-11	9.9357e-11
907	9.9999e-11	9.9356e-11	9.9356e-11
908	9.9999e-11	9.9355e-11	9.9355e-11
909	9.9999e-11	9.9355e-11	9.9355e-11
910	9.9999e-11	9.9354e-11	9.9354e-11
911	9.9999e-11	9.9353e-11	9.9353e-11
912	9.9999e-11	9.9352e-11	9.9352e-11
913	9.9999e-11	9.9352e-11	9.9352e-11
914	9.9999e-11	9.9351e-11	9.9351e-11
915	9.9999e-11	9.9350e-11	9.9350e-11
916	9.9999e-11	9.9350e-11	9.9350e-11
917	9.9999e-11	9.9349e-11	9.9349e-11
918	9.9999e-11	9.9348e-11	9.9348e-11
919	9.9999e-11	9.9347e-11	9.9347e-11
920	9.9999e-11	9.9347e-11	9.9347e-11
921	9.9999e-11	9.9346e-11	9.9346e-11
922	9.9999e-11	9.9345e-11	9.9345e-11
923	9.9999e-11	9.9344e-11	9.9344e-11
924	9.9999e-11	9.9344e-11	9.9344e-11
925	9.9999e-11	9.9343e-11	9.9343e-11
926	9.9999e-11	9.9342e-11	9.9342e-11

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x	$A(x)$	P_{v1}	P_{v2}
927	9.9999e-11	9.9342e-11	9.9342e-11
928	9.9999e-11	9.9341e-11	9.9341e-11
929	9.9999e-11	9.9340e-11	9.9340e-11
930	9.9999e-11	9.9339e-11	9.9339e-11
931	9.9999e-11	9.9339e-11	9.9339e-11
932	9.9999e-11	9.9338e-11	9.9338e-11
933	9.9999e-11	9.9337e-11	9.9337e-11
934	9.9999e-11	9.9336e-11	9.9336e-11
935	9.9999e-11	9.9336e-11	9.9336e-11
936	9.9999e-11	9.9335e-11	9.9335e-11
937	9.9999e-11	9.9334e-11	9.9334e-11
938	9.9999e-11	9.9334e-11	9.9334e-11
939	9.9999e-11	9.9333e-11	9.9333e-11
940	9.9999e-11	9.9332e-11	9.9332e-11
941	9.9999e-11	9.9331e-11	9.9331e-11
942	9.9999e-11	9.9331e-11	9.9331e-11
943	9.9999e-11	9.9330e-11	9.9330e-11
944	9.9999e-11	9.9329e-11	9.9329e-11
945	9.9999e-11	9.9329e-11	9.9329e-11
946	9.9999e-11	9.9328e-11	9.9328e-11
947	9.9999e-11	9.9327e-11	9.9327e-11
948	9.9999e-11	9.9326e-11	9.9326e-11
949	9.9999e-11	9.9326e-11	9.9326e-11
950	9.9999e-11	9.9325e-11	9.9325e-11
951	9.9999e-11	9.9324e-11	9.9324e-11
952	9.9999e-11	9.9323e-11	9.9323e-11
953	9.9999e-11	9.9323e-11	9.9323e-11
954	9.9999e-11	9.9322e-11	9.9322e-11
955	9.9999e-11	9.9321e-11	9.9321e-11
956	9.9999e-11	9.9321e-11	9.9321e-11
957	9.9999e-11	9.9320e-11	9.9320e-11
958	9.9999e-11	9.9319e-11	9.9319e-11
959	9.9999e-11	9.9318e-11	9.9318e-11
960	9.9999e-11	9.9318e-11	9.9318e-11
961	9.9999e-11	9.9317e-11	9.9317e-11
962	9.9999e-11	9.9316e-11	9.9316e-11
963	9.9999e-11	9.9315e-11	9.9315e-11
964	9.9999e-11	9.9315e-11	9.9315e-11
965	9.9999e-11	9.9314e-11	9.9314e-11
966	9.9999e-11	9.9313e-11	9.9313e-11

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x	$A(x)$	P_{v1}	P_{v2}
967	9.9999e-11	9.9313e-11	9.9313e-11
968	9.9999e-11	9.9312e-11	9.9312e-11
969	9.9999e-11	9.9311e-11	9.9311e-11
970	9.9999e-11	9.9310e-11	9.9310e-11
971	9.9999e-11	9.9310e-11	9.9310e-11
972	9.9999e-11	9.9309e-11	9.9309e-11
973	9.9999e-11	9.9308e-11	9.9308e-11
974	9.9999e-11	9.9307e-11	9.9307e-11
975	9.9999e-11	9.9307e-11	9.9307e-11
976	9.9999e-11	9.9306e-11	9.9306e-11
977	9.9999e-11	9.9305e-11	9.9305e-11
978	9.9999e-11	9.9305e-11	9.9305e-11
979	9.9999e-11	9.9304e-11	9.9304e-11
980	9.9999e-11	9.9303e-11	9.9303e-11
981	9.9999e-11	9.9302e-11	9.9302e-11
982	9.9999e-11	9.9302e-11	9.9302e-11
983	9.9999e-11	9.9301e-11	9.9301e-11
984	9.9999e-11	9.9300e-11	9.9300e-11
985	9.9999e-11	9.9299e-11	9.9299e-11
986	9.9999e-11	9.9299e-11	9.9299e-11
987	9.9999e-11	9.9298e-11	9.9298e-11
988	9.9999e-11	9.9297e-11	9.9297e-11
989	9.9999e-11	9.9297e-11	9.9297e-11
990	9.9999e-11	9.9296e-11	9.9296e-11
991	9.9999e-11	9.9295e-11	9.9295e-11
992	9.9999e-11	9.9294e-11	9.9294e-11
993	9.9999e-11	9.9294e-11	9.9294e-11
994	9.9999e-11	9.9293e-11	9.9293e-11
995	9.9999e-11	9.9292e-11	9.9292e-11
996	9.9999e-11	9.9291e-11	9.9291e-11
997	9.9999e-11	9.9291e-11	9.9291e-11
998	9.9999e-11	9.9290e-11	9.9290e-11
999	9.9999e-11	9.9289e-11	9.9289e-11
1000	9.9999e-11	9.9289e-11	9.9289e-11

Table B.7.25: Output for Problem 7.3.6-DIST-C2

x	$A(x)$	P_{v1}	P_{v2}
0	0.0000e+00	0.0000e+00	0.0000e+00

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
1	6.9314e-11	6.9304e-11	6.9304e-11
2	6.9312e-11	6.9313e-11	6.9313e-11
3	6.9311e-11	6.9312e-11	6.9312e-11
4	6.9310e-11	6.9310e-11	6.9310e-11
5	6.9309e-11	6.9309e-11	6.9309e-11
6	6.9308e-11	6.9308e-11	6.9308e-11
7	6.9307e-11	6.9307e-11	6.9307e-11
8	6.9305e-11	6.9306e-11	6.9306e-11
9	6.9304e-11	6.9304e-11	6.9304e-11
10	6.9303e-11	6.9303e-11	6.9303e-11
11	6.9302e-11	6.9302e-11	6.9302e-11
12	6.9301e-11	6.9301e-11	6.9301e-11
13	6.9299e-11	6.9300e-11	6.9300e-11
14	6.9298e-11	6.9299e-11	6.9299e-11
15	6.9297e-11	6.9297e-11	6.9297e-11
16	6.9296e-11	6.9296e-11	6.9296e-11
17	6.9295e-11	6.9295e-11	6.9295e-11
18	6.9294e-11	6.9294e-11	6.9294e-11
19	6.9292e-11	6.9293e-11	6.9293e-11
20	6.9291e-11	6.9292e-11	6.9292e-11
21	6.9290e-11	6.9290e-11	6.9290e-11
22	6.9289e-11	6.9289e-11	6.9289e-11
23	6.9288e-11	6.9288e-11	6.9288e-11
24	6.9287e-11	6.9287e-11	6.9287e-11
25	6.9285e-11	6.9286e-11	6.9286e-11
26	6.9284e-11	6.9285e-11	6.9285e-11
27	6.9283e-11	6.9283e-11	6.9283e-11
28	6.9282e-11	6.9282e-11	6.9282e-11
29	6.9281e-11	6.9281e-11	6.9281e-11
30	6.9280e-11	6.9280e-11	6.9280e-11
31	6.9278e-11	6.9279e-11	6.9279e-11
32	6.9277e-11	6.9277e-11	6.9277e-11
33	6.9276e-11	6.9276e-11	6.9276e-11
34	6.9275e-11	6.9275e-11	6.9275e-11
35	6.9274e-11	6.9274e-11	6.9274e-11
36	6.9272e-11	6.9273e-11	6.9273e-11
37	6.9271e-11	6.9272e-11	6.9272e-11
38	6.9270e-11	6.9270e-11	6.9270e-11
39	6.9269e-11	6.9269e-11	6.9269e-11
40	6.9268e-11	6.9268e-11	6.9268e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
41	6.9267e-11	6.9267e-11	6.9267e-11
42	6.9265e-11	6.9266e-11	6.9266e-11
43	6.9264e-11	6.9265e-11	6.9265e-11
44	6.9263e-11	6.9263e-11	6.9263e-11
45	6.9262e-11	6.9262e-11	6.9262e-11
46	6.9261e-11	6.9261e-11	6.9261e-11
47	6.9260e-11	6.9260e-11	6.9260e-11
48	6.9258e-11	6.9259e-11	6.9259e-11
49	6.9257e-11	6.9258e-11	6.9258e-11
50	6.9256e-11	6.9256e-11	6.9256e-11
51	6.9255e-11	6.9255e-11	6.9255e-11
52	6.9254e-11	6.9254e-11	6.9254e-11
53	6.9253e-11	6.9253e-11	6.9253e-11
54	6.9251e-11	6.9252e-11	6.9252e-11
55	6.9250e-11	6.9250e-11	6.9250e-11
56	6.9249e-11	6.9249e-11	6.9249e-11
57	6.9248e-11	6.9248e-11	6.9248e-11
58	6.9247e-11	6.9247e-11	6.9247e-11
59	6.9245e-11	6.9246e-11	6.9246e-11
60	6.9244e-11	6.9245e-11	6.9245e-11
61	6.9243e-11	6.9243e-11	6.9243e-11
62	6.9242e-11	6.9242e-11	6.9242e-11
63	6.9241e-11	6.9241e-11	6.9241e-11
64	6.9240e-11	6.9240e-11	6.9240e-11
65	6.9238e-11	6.9239e-11	6.9239e-11
66	6.9237e-11	6.9238e-11	6.9238e-11
67	6.9236e-11	6.9236e-11	6.9236e-11
68	6.9235e-11	6.9235e-11	6.9235e-11
69	6.9234e-11	6.9234e-11	6.9234e-11
70	6.9233e-11	6.9233e-11	6.9233e-11
71	6.9231e-11	6.9232e-11	6.9232e-11
72	6.9230e-11	6.9231e-11	6.9231e-11
73	6.9229e-11	6.9229e-11	6.9229e-11
74	6.9228e-11	6.9228e-11	6.9228e-11
75	6.9227e-11	6.9227e-11	6.9227e-11
76	6.9226e-11	6.9226e-11	6.9226e-11
77	6.9224e-11	6.9225e-11	6.9225e-11
78	6.9223e-11	6.9224e-11	6.9224e-11
79	6.9222e-11	6.9222e-11	6.9222e-11
80	6.9221e-11	6.9221e-11	6.9221e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
81	6.9220e-11	6.9220e-11	6.9220e-11
82	6.9219e-11	6.9219e-11	6.9219e-11
83	6.9217e-11	6.9218e-11	6.9218e-11
84	6.9216e-11	6.9216e-11	6.9216e-11
85	6.9215e-11	6.9215e-11	6.9215e-11
86	6.9214e-11	6.9214e-11	6.9214e-11
87	6.9213e-11	6.9213e-11	6.9213e-11
88	6.9211e-11	6.9212e-11	6.9212e-11
89	6.9210e-11	6.9211e-11	6.9211e-11
90	6.9209e-11	6.9209e-11	6.9209e-11
91	6.9208e-11	6.9208e-11	6.9208e-11
92	6.9207e-11	6.9207e-11	6.9207e-11
93	6.9206e-11	6.9206e-11	6.9206e-11
94	6.9204e-11	6.9205e-11	6.9205e-11
95	6.9203e-11	6.9204e-11	6.9204e-11
96	6.9202e-11	6.9202e-11	6.9202e-11
97	6.9201e-11	6.9201e-11	6.9201e-11
98	6.9200e-11	6.9200e-11	6.9200e-11
99	6.9199e-11	6.9199e-11	6.9199e-11
100	6.9197e-11	6.9198e-11	6.9198e-11
101	6.9196e-11	6.9197e-11	6.9197e-11
102	6.9195e-11	6.9195e-11	6.9195e-11
103	6.9194e-11	6.9194e-11	6.9194e-11
104	6.9193e-11	6.9193e-11	6.9193e-11
105	6.9192e-11	6.9192e-11	6.9192e-11
106	6.9190e-11	6.9191e-11	6.9191e-11
107	6.9189e-11	6.9190e-11	6.9190e-11
108	6.9188e-11	6.9188e-11	6.9188e-11
109	6.9187e-11	6.9187e-11	6.9187e-11
110	6.9186e-11	6.9186e-11	6.9186e-11
111	6.9184e-11	6.9185e-11	6.9185e-11
112	6.9183e-11	6.9184e-11	6.9184e-11
113	6.9182e-11	6.9182e-11	6.9182e-11
114	6.9181e-11	6.9181e-11	6.9181e-11
115	6.9180e-11	6.9180e-11	6.9180e-11
116	6.9179e-11	6.9179e-11	6.9179e-11
117	6.9177e-11	6.9178e-11	6.9178e-11
118	6.9176e-11	6.9177e-11	6.9177e-11
119	6.9175e-11	6.9175e-11	6.9175e-11
120	6.9174e-11	6.9174e-11	6.9174e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
121	6.9173e-11	6.9173e-11	6.9173e-11
122	6.9172e-11	6.9172e-11	6.9172e-11
123	6.9170e-11	6.9171e-11	6.9171e-11
124	6.9169e-11	6.9170e-11	6.9170e-11
125	6.9168e-11	6.9168e-11	6.9168e-11
126	6.9167e-11	6.9167e-11	6.9167e-11
127	6.9166e-11	6.9166e-11	6.9166e-11
128	6.9165e-11	6.9165e-11	6.9165e-11
129	6.9163e-11	6.9164e-11	6.9164e-11
130	6.9162e-11	6.9163e-11	6.9163e-11
131	6.9161e-11	6.9161e-11	6.9161e-11
132	6.9160e-11	6.9160e-11	6.9160e-11
133	6.9159e-11	6.9159e-11	6.9159e-11
134	6.9158e-11	6.9158e-11	6.9158e-11
135	6.9156e-11	6.9157e-11	6.9157e-11
136	6.9155e-11	6.9156e-11	6.9156e-11
137	6.9154e-11	6.9154e-11	6.9154e-11
138	6.9153e-11	6.9153e-11	6.9153e-11
139	6.9152e-11	6.9152e-11	6.9152e-11
140	6.9150e-11	6.9151e-11	6.9151e-11
141	6.9149e-11	6.9150e-11	6.9150e-11
142	6.9148e-11	6.9149e-11	6.9149e-11
143	6.9147e-11	6.9147e-11	6.9147e-11
144	6.9146e-11	6.9146e-11	6.9146e-11
145	6.9145e-11	6.9145e-11	6.9145e-11
146	6.9143e-11	6.9144e-11	6.9144e-11
147	6.9142e-11	6.9143e-11	6.9143e-11
148	6.9141e-11	6.9141e-11	6.9141e-11
149	6.9140e-11	6.9140e-11	6.9140e-11
150	6.9139e-11	6.9139e-11	6.9139e-11
151	6.9138e-11	6.9138e-11	6.9138e-11
152	6.9136e-11	6.9137e-11	6.9137e-11
153	6.9135e-11	6.9136e-11	6.9136e-11
154	6.9134e-11	6.9134e-11	6.9134e-11
155	6.9133e-11	6.9133e-11	6.9133e-11
156	6.9132e-11	6.9132e-11	6.9132e-11
157	6.9131e-11	6.9131e-11	6.9131e-11
158	6.9129e-11	6.9130e-11	6.9130e-11
159	6.9128e-11	6.9129e-11	6.9129e-11
160	6.9127e-11	6.9127e-11	6.9127e-11

continued on next page...

x	$A(x)$	P_{v1}	P_{v2}
161	6.9126e-11	6.9126e-11	6.9126e-11
162	6.9125e-11	6.9125e-11	6.9125e-11
163	6.9124e-11	6.9124e-11	6.9124e-11
164	6.9122e-11	6.9123e-11	6.9123e-11
165	6.9121e-11	6.9122e-11	6.9122e-11
166	6.9120e-11	6.9120e-11	6.9120e-11
167	6.9119e-11	6.9119e-11	6.9119e-11
168	6.9118e-11	6.9118e-11	6.9118e-11
169	6.9116e-11	6.9117e-11	6.9117e-11
170	6.9115e-11	6.9116e-11	6.9116e-11
171	6.9114e-11	6.9115e-11	6.9115e-11
172	6.9113e-11	6.9113e-11	6.9113e-11
173	6.9112e-11	6.9112e-11	6.9112e-11
174	6.9111e-11	6.9111e-11	6.9111e-11
175	6.9109e-11	6.9110e-11	6.9110e-11
176	6.9108e-11	6.9109e-11	6.9109e-11
177	6.9107e-11	6.9107e-11	6.9107e-11
178	6.9106e-11	6.9106e-11	6.9106e-11
179	6.9105e-11	6.9105e-11	6.9105e-11
180	6.9104e-11	6.9104e-11	6.9104e-11
181	6.9102e-11	6.9103e-11	6.9103e-11
182	6.9101e-11	6.9102e-11	6.9102e-11
183	6.9100e-11	6.9100e-11	6.9100e-11
184	6.9099e-11	6.9099e-11	6.9099e-11
185	6.9098e-11	6.9098e-11	6.9098e-11
186	6.9097e-11	6.9097e-11	6.9097e-11
187	6.9095e-11	6.9096e-11	6.9096e-11
188	6.9094e-11	6.9095e-11	6.9095e-11
189	6.9093e-11	6.9093e-11	6.9093e-11
190	6.9092e-11	6.9092e-11	6.9092e-11
191	6.9091e-11	6.9091e-11	6.9091e-11
192	6.9090e-11	6.9090e-11	6.9090e-11
193	6.9088e-11	6.9089e-11	6.9089e-11
194	6.9087e-11	6.9088e-11	6.9088e-11
195	6.9086e-11	6.9086e-11	6.9086e-11
196	6.9085e-11	6.9085e-11	6.9085e-11
197	6.9084e-11	6.9084e-11	6.9084e-11
198	6.9083e-11	6.9083e-11	6.9083e-11
199	6.9081e-11	6.9082e-11	6.9082e-11
200	6.9080e-11	6.9081e-11	6.9081e-11

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x	$A(x)$	P_{v1}	P_{v2}
201	6.9079e-11	6.9079e-11	6.9079e-11
202	6.9078e-11	6.9078e-11	6.9078e-11
203	6.9077e-11	6.9077e-11	6.9077e-11
204	6.9075e-11	6.9076e-11	6.9076e-11
205	6.9074e-11	6.9075e-11	6.9075e-11
206	6.9073e-11	6.9074e-11	6.9074e-11
207	6.9072e-11	6.9072e-11	6.9072e-11
208	6.9071e-11	6.9071e-11	6.9071e-11
209	6.9070e-11	6.9070e-11	6.9070e-11
210	6.9068e-11	6.9069e-11	6.9069e-11
211	6.9067e-11	6.9068e-11	6.9068e-11
212	6.9066e-11	6.9067e-11	6.9067e-11
213	6.9065e-11	6.9065e-11	6.9065e-11
214	6.9064e-11	6.9064e-11	6.9064e-11
215	6.9063e-11	6.9063e-11	6.9063e-11
216	6.9061e-11	6.9062e-11	6.9062e-11
217	6.9060e-11	6.9061e-11	6.9061e-11
218	6.9059e-11	6.9059e-11	6.9059e-11
219	6.9058e-11	6.9058e-11	6.9058e-11
220	6.9057e-11	6.9057e-11	6.9057e-11
221	6.9056e-11	6.9056e-11	6.9056e-11
222	6.9054e-11	6.9055e-11	6.9055e-11
223	6.9053e-11	6.9054e-11	6.9054e-11
224	6.9052e-11	6.9052e-11	6.9052e-11
225	6.9051e-11	6.9051e-11	6.9051e-11
226	6.9050e-11	6.9050e-11	6.9050e-11
227	6.9049e-11	6.9049e-11	6.9049e-11
228	6.9047e-11	6.9048e-11	6.9048e-11
229	6.9046e-11	6.9047e-11	6.9047e-11
230	6.9045e-11	6.9045e-11	6.9045e-11
231	6.9044e-11	6.9044e-11	6.9044e-11
232	6.9043e-11	6.9043e-11	6.9043e-11
233	6.9041e-11	6.9042e-11	6.9042e-11
234	6.9040e-11	6.9041e-11	6.9041e-11
235	6.9039e-11	6.9040e-11	6.9040e-11
236	6.9038e-11	6.9038e-11	6.9038e-11
237	6.9037e-11	6.9037e-11	6.9037e-11
238	6.9036e-11	6.9036e-11	6.9036e-11
239	6.9034e-11	6.9035e-11	6.9035e-11
240	6.9033e-11	6.9034e-11	6.9034e-11

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x	$A(x)$	P_{v1}	P_{v2}
241	6.9032e-11	6.9033e-11	6.9033e-11
242	6.9031e-11	6.9031e-11	6.9031e-11
243	6.9030e-11	6.9030e-11	6.9030e-11
244	6.9029e-11	6.9029e-11	6.9029e-11
245	6.9027e-11	6.9028e-11	6.9028e-11
246	6.9026e-11	6.9027e-11	6.9027e-11
247	6.9025e-11	6.9026e-11	6.9026e-11
248	6.9024e-11	6.9024e-11	6.9024e-11
249	6.9023e-11	6.9023e-11	6.9023e-11
250	6.9022e-11	6.9022e-11	6.9022e-11
251	6.9020e-11	6.9021e-11	6.9021e-11
252	6.9019e-11	6.9020e-11	6.9020e-11
253	6.9018e-11	6.9019e-11	6.9019e-11
254	6.9017e-11	6.9017e-11	6.9017e-11
255	6.9016e-11	6.9016e-11	6.9016e-11
256	6.9015e-11	6.9015e-11	6.9015e-11
257	6.9013e-11	6.9014e-11	6.9014e-11
258	6.9012e-11	6.9013e-11	6.9013e-11
259	6.9011e-11	6.9011e-11	6.9011e-11
260	6.9010e-11	6.9010e-11	6.9010e-11
261	6.9009e-11	6.9009e-11	6.9009e-11
262	6.9008e-11	6.9008e-11	6.9008e-11
263	6.9006e-11	6.9007e-11	6.9007e-11
264	6.9005e-11	6.9006e-11	6.9006e-11
265	6.9004e-11	6.9004e-11	6.9004e-11
266	6.9003e-11	6.9003e-11	6.9003e-11
267	6.9002e-11	6.9002e-11	6.9002e-11
268	6.9000e-11	6.9001e-11	6.9001e-11
269	6.8999e-11	6.9000e-11	6.9000e-11
270	6.8998e-11	6.8999e-11	6.8999e-11
271	6.8997e-11	6.8997e-11	6.8997e-11
272	6.8996e-11	6.8996e-11	6.8996e-11
273	6.8995e-11	6.8995e-11	6.8995e-11
274	6.8993e-11	6.8994e-11	6.8994e-11
275	6.8992e-11	6.8993e-11	6.8993e-11
276	6.8991e-11	6.8992e-11	6.8992e-11
277	6.8990e-11	6.8990e-11	6.8990e-11
278	6.8989e-11	6.8989e-11	6.8989e-11
279	6.8988e-11	6.8988e-11	6.8988e-11
280	6.8986e-11	6.8987e-11	6.8987e-11

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x	$A(x)$	P_{v1}	P_{v2}
281	6.8985e-11	6.8986e-11	6.8986e-11
282	6.8984e-11	6.8985e-11	6.8985e-11
283	6.8983e-11	6.8983e-11	6.8983e-11
284	6.8982e-11	6.8982e-11	6.8982e-11
285	6.8981e-11	6.8981e-11	6.8981e-11
286	6.8979e-11	6.8980e-11	6.8980e-11
287	6.8978e-11	6.8979e-11	6.8979e-11
288	6.8977e-11	6.8978e-11	6.8978e-11
289	6.8976e-11	6.8976e-11	6.8976e-11
290	6.8975e-11	6.8975e-11	6.8975e-11
291	6.8974e-11	6.8974e-11	6.8974e-11
292	6.8972e-11	6.8973e-11	6.8973e-11
293	6.8971e-11	6.8972e-11	6.8972e-11
294	6.8970e-11	6.8971e-11	6.8971e-11
295	6.8969e-11	6.8969e-11	6.8969e-11
296	6.8968e-11	6.8968e-11	6.8968e-11
297	6.8967e-11	6.8967e-11	6.8967e-11
298	6.8965e-11	6.8966e-11	6.8966e-11
299	6.8964e-11	6.8965e-11	6.8965e-11
300	6.8963e-11	6.8964e-11	6.8964e-11
301	6.8962e-11	6.8962e-11	6.8962e-11
302	6.8961e-11	6.8961e-11	6.8961e-11
303	6.8959e-11	6.8960e-11	6.8960e-11
304	6.8958e-11	6.8959e-11	6.8959e-11
305	6.8957e-11	6.8958e-11	6.8958e-11
306	6.8956e-11	6.8957e-11	6.8957e-11
307	6.8955e-11	6.8955e-11	6.8955e-11
308	6.8954e-11	6.8954e-11	6.8954e-11
309	6.8952e-11	6.8953e-11	6.8953e-11
310	6.8951e-11	6.8952e-11	6.8952e-11
311	6.8950e-11	6.8951e-11	6.8951e-11
312	6.8949e-11	6.8949e-11	6.8949e-11
313	6.8948e-11	6.8948e-11	6.8948e-11
314	6.8947e-11	6.8947e-11	6.8947e-11
315	6.8945e-11	6.8946e-11	6.8946e-11
316	6.8944e-11	6.8945e-11	6.8945e-11
317	6.8943e-11	6.8944e-11	6.8944e-11
318	6.8942e-11	6.8942e-11	6.8942e-11
319	6.8941e-11	6.8941e-11	6.8941e-11
320	6.8940e-11	6.8940e-11	6.8940e-11

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x	$A(x)$	P_{v1}	P_{v2}
321	6.8938e-11	6.8939e-11	6.8939e-11
322	6.8937e-11	6.8938e-11	6.8938e-11
323	6.8936e-11	6.8937e-11	6.8937e-11
324	6.8935e-11	6.8935e-11	6.8935e-11
325	6.8934e-11	6.8934e-11	6.8934e-11
326	6.8933e-11	6.8933e-11	6.8933e-11
327	6.8931e-11	6.8932e-11	6.8932e-11
328	6.8930e-11	6.8931e-11	6.8931e-11
329	6.8929e-11	6.8930e-11	6.8930e-11
330	6.8928e-11	6.8928e-11	6.8928e-11
331	6.8927e-11	6.8927e-11	6.8927e-11
332	6.8926e-11	6.8926e-11	6.8926e-11
333	6.8924e-11	6.8925e-11	6.8925e-11
334	6.8923e-11	6.8924e-11	6.8924e-11
335	6.8922e-11	6.8923e-11	6.8923e-11
336	6.8921e-11	6.8921e-11	6.8921e-11
337	6.8920e-11	6.8920e-11	6.8920e-11
338	6.8919e-11	6.8919e-11	6.8919e-11
339	6.8917e-11	6.8918e-11	6.8918e-11
340	6.8916e-11	6.8917e-11	6.8917e-11
341	6.8915e-11	6.8916e-11	6.8916e-11
342	6.8914e-11	6.8914e-11	6.8914e-11
343	6.8913e-11	6.8913e-11	6.8913e-11
344	6.8911e-11	6.8912e-11	6.8912e-11
345	6.8910e-11	6.8911e-11	6.8911e-11
346	6.8909e-11	6.8910e-11	6.8910e-11
347	6.8908e-11	6.8909e-11	6.8909e-11
348	6.8907e-11	6.8907e-11	6.8907e-11
349	6.8906e-11	6.8906e-11	6.8906e-11
350	6.8904e-11	6.8905e-11	6.8905e-11
351	6.8903e-11	6.8904e-11	6.8904e-11
352	6.8902e-11	6.8903e-11	6.8903e-11
353	6.8901e-11	6.8902e-11	6.8902e-11
354	6.8900e-11	6.8900e-11	6.8900e-11
355	6.8899e-11	6.8899e-11	6.8899e-11
356	6.8897e-11	6.8898e-11	6.8898e-11
357	6.8896e-11	6.8897e-11	6.8897e-11
358	6.8895e-11	6.8896e-11	6.8896e-11
359	6.8894e-11	6.8895e-11	6.8895e-11
360	6.8893e-11	6.8893e-11	6.8893e-11

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x	$A(x)$	P_{v1}	P_{v2}
361	6.8892e-11	6.8892e-11	6.8892e-11
362	6.8890e-11	6.8891e-11	6.8891e-11
363	6.8889e-11	6.8890e-11	6.8890e-11
364	6.8888e-11	6.8889e-11	6.8889e-11
365	6.8887e-11	6.8888e-11	6.8888e-11
366	6.8886e-11	6.8886e-11	6.8886e-11
367	6.8885e-11	6.8885e-11	6.8885e-11
368	6.8883e-11	6.8884e-11	6.8884e-11
369	6.8882e-11	6.8883e-11	6.8883e-11
370	6.8881e-11	6.8882e-11	6.8882e-11
371	6.8880e-11	6.8881e-11	6.8881e-11
372	6.8879e-11	6.8879e-11	6.8879e-11
373	6.8878e-11	6.8878e-11	6.8878e-11
374	6.8876e-11	6.8877e-11	6.8877e-11
375	6.8875e-11	6.8876e-11	6.8876e-11
376	6.8874e-11	6.8875e-11	6.8875e-11
377	6.8873e-11	6.8873e-11	6.8873e-11
378	6.8872e-11	6.8872e-11	6.8872e-11
379	6.8871e-11	6.8871e-11	6.8871e-11
380	6.8869e-11	6.8870e-11	6.8870e-11
381	6.8868e-11	6.8869e-11	6.8869e-11
382	6.8867e-11	6.8868e-11	6.8868e-11
383	6.8866e-11	6.8866e-11	6.8866e-11
384	6.8865e-11	6.8865e-11	6.8865e-11
385	6.8863e-11	6.8864e-11	6.8864e-11
386	6.8862e-11	6.8863e-11	6.8863e-11
387	6.8861e-11	6.8862e-11	6.8862e-11
388	6.8860e-11	6.8861e-11	6.8861e-11
389	6.8859e-11	6.8859e-11	6.8859e-11
390	6.8858e-11	6.8858e-11	6.8858e-11
391	6.8856e-11	6.8857e-11	6.8857e-11
392	6.8855e-11	6.8856e-11	6.8856e-11
393	6.8854e-11	6.8855e-11	6.8855e-11
394	6.8853e-11	6.8854e-11	6.8854e-11
395	6.8852e-11	6.8852e-11	6.8852e-11
396	6.8851e-11	6.8851e-11	6.8851e-11
397	6.8849e-11	6.8850e-11	6.8850e-11
398	6.8848e-11	6.8849e-11	6.8849e-11
399	6.8847e-11	6.8848e-11	6.8848e-11
400	6.8846e-11	6.8847e-11	6.8847e-11

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x	$A(x)$	P_{v1}	P_{v2}
401	6.8845e-11	6.8845e-11	6.8845e-11
402	6.8844e-11	6.8844e-11	6.8844e-11
403	6.8842e-11	6.8843e-11	6.8843e-11
404	6.8841e-11	6.8842e-11	6.8842e-11
405	6.8840e-11	6.8841e-11	6.8841e-11
406	6.8839e-11	6.8840e-11	6.8840e-11
407	6.8838e-11	6.8838e-11	6.8838e-11
408	6.8837e-11	6.8837e-11	6.8837e-11
409	6.8835e-11	6.8836e-11	6.8836e-11
410	6.8834e-11	6.8835e-11	6.8835e-11
411	6.8833e-11	6.8834e-11	6.8834e-11
412	6.8832e-11	6.8833e-11	6.8833e-11
413	6.8831e-11	6.8831e-11	6.8831e-11
414	6.8830e-11	6.8830e-11	6.8830e-11
415	6.8828e-11	6.8829e-11	6.8829e-11
416	6.8827e-11	6.8828e-11	6.8828e-11
417	6.8826e-11	6.8827e-11	6.8827e-11
418	6.8825e-11	6.8826e-11	6.8826e-11
419	6.8824e-11	6.8824e-11	6.8824e-11
420	6.8823e-11	6.8823e-11	6.8823e-11
421	6.8821e-11	6.8822e-11	6.8822e-11
422	6.8820e-11	6.8821e-11	6.8821e-11
423	6.8819e-11	6.8820e-11	6.8820e-11
424	6.8818e-11	6.8819e-11	6.8819e-11
425	6.8817e-11	6.8817e-11	6.8817e-11
426	6.8816e-11	6.8816e-11	6.8816e-11
427	6.8814e-11	6.8815e-11	6.8815e-11
428	6.8813e-11	6.8814e-11	6.8814e-11
429	6.8812e-11	6.8813e-11	6.8813e-11
430	6.8811e-11	6.8812e-11	6.8812e-11
431	6.8810e-11	6.8810e-11	6.8810e-11
432	6.8808e-11	6.8809e-11	6.8809e-11
433	6.8807e-11	6.8808e-11	6.8808e-11
434	6.8806e-11	6.8807e-11	6.8807e-11
435	6.8805e-11	6.8806e-11	6.8806e-11
436	6.8804e-11	6.8805e-11	6.8805e-11
437	6.8803e-11	6.8803e-11	6.8803e-11
438	6.8801e-11	6.8802e-11	6.8802e-11
439	6.8800e-11	6.8801e-11	6.8801e-11
440	6.8799e-11	6.8800e-11	6.8800e-11

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x	$A(x)$	P_{v1}	P_{v2}
441	6.8798e-11	6.8799e-11	6.8799e-11
442	6.8797e-11	6.8798e-11	6.8798e-11
443	6.8796e-11	6.8796e-11	6.8796e-11
444	6.8794e-11	6.8795e-11	6.8795e-11
445	6.8793e-11	6.8794e-11	6.8794e-11
446	6.8792e-11	6.8793e-11	6.8793e-11
447	6.8791e-11	6.8792e-11	6.8792e-11
448	6.8790e-11	6.8791e-11	6.8791e-11
449	6.8789e-11	6.8789e-11	6.8789e-11
450	6.8787e-11	6.8788e-11	6.8788e-11
451	6.8786e-11	6.8787e-11	6.8787e-11
452	6.8785e-11	6.8786e-11	6.8786e-11
453	6.8784e-11	6.8785e-11	6.8785e-11
454	6.8783e-11	6.8784e-11	6.8784e-11
455	6.8782e-11	6.8782e-11	6.8782e-11
456	6.8780e-11	6.8781e-11	6.8781e-11
457	6.8779e-11	6.8780e-11	6.8780e-11
458	6.8778e-11	6.8779e-11	6.8779e-11
459	6.8777e-11	6.8778e-11	6.8778e-11
460	6.8776e-11	6.8777e-11	6.8777e-11
461	6.8775e-11	6.8775e-11	6.8775e-11
462	6.8773e-11	6.8774e-11	6.8774e-11
463	6.8772e-11	6.8773e-11	6.8773e-11
464	6.8771e-11	6.8772e-11	6.8772e-11
465	6.8770e-11	6.8771e-11	6.8771e-11
466	6.8769e-11	6.8770e-11	6.8770e-11
467	6.8768e-11	6.8768e-11	6.8768e-11
468	6.8766e-11	6.8767e-11	6.8767e-11
469	6.8765e-11	6.8766e-11	6.8766e-11
470	6.8764e-11	6.8765e-11	6.8765e-11
471	6.8763e-11	6.8764e-11	6.8764e-11
472	6.8762e-11	6.8763e-11	6.8763e-11
473	6.8761e-11	6.8761e-11	6.8761e-11
474	6.8759e-11	6.8760e-11	6.8760e-11
475	6.8758e-11	6.8759e-11	6.8759e-11
476	6.8757e-11	6.8758e-11	6.8758e-11
477	6.8756e-11	6.8757e-11	6.8757e-11
478	6.8755e-11	6.8756e-11	6.8756e-11
479	6.8753e-11	6.8754e-11	6.8754e-11
480	6.8752e-11	6.8753e-11	6.8753e-11

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x	$A(x)$	P_{v1}	P_{v2}
481	6.8751e-11	6.8752e-11	6.8752e-11
482	6.8750e-11	6.8751e-11	6.8751e-11
483	6.8749e-11	6.8750e-11	6.8750e-11
484	6.8748e-11	6.8749e-11	6.8749e-11
485	6.8746e-11	6.8747e-11	6.8747e-11
486	6.8745e-11	6.8746e-11	6.8746e-11
487	6.8744e-11	6.8745e-11	6.8745e-11
488	6.8743e-11	6.8744e-11	6.8744e-11
489	6.8742e-11	6.8743e-11	6.8743e-11
490	6.8741e-11	6.8742e-11	6.8742e-11
491	6.8739e-11	6.8740e-11	6.8740e-11
492	6.8738e-11	6.8739e-11	6.8739e-11
493	6.8737e-11	6.8738e-11	6.8738e-11
494	6.8736e-11	6.8737e-11	6.8737e-11
495	6.8735e-11	6.8736e-11	6.8736e-11
496	6.8734e-11	6.8735e-11	6.8735e-11
497	6.8732e-11	6.8733e-11	6.8733e-11
498	6.8731e-11	6.8732e-11	6.8732e-11
499	6.8730e-11	6.8731e-11	6.8731e-11
500	6.8729e-11	6.8730e-11	6.8730e-11
501	6.8728e-11	6.8729e-11	6.8729e-11
502	6.8727e-11	6.8728e-11	6.8728e-11
503	6.8725e-11	6.8726e-11	6.8726e-11
504	6.8724e-11	6.8725e-11	6.8725e-11
505	6.8723e-11	6.8724e-11	6.8724e-11
506	6.8722e-11	6.8723e-11	6.8723e-11
507	6.8721e-11	6.8722e-11	6.8722e-11
508	6.8720e-11	6.8721e-11	6.8721e-11
509	6.8718e-11	6.8719e-11	6.8719e-11
510	6.8717e-11	6.8718e-11	6.8718e-11
511	6.8716e-11	6.8717e-11	6.8717e-11
512	6.8715e-11	6.8716e-11	6.8716e-11
513	6.8714e-11	6.8715e-11	6.8715e-11
514	6.8713e-11	6.8714e-11	6.8714e-11
515	6.8711e-11	6.8712e-11	6.8712e-11
516	6.8710e-11	6.8711e-11	6.8711e-11
517	6.8709e-11	6.8710e-11	6.8710e-11
518	6.8708e-11	6.8709e-11	6.8709e-11
519	6.8707e-11	6.8708e-11	6.8708e-11
520	6.8706e-11	6.8707e-11	6.8707e-11

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x	$A(x)$	P_{v1}	P_{v2}
521	6.8704e-11	6.8705e-11	6.8705e-11
522	6.8703e-11	6.8704e-11	6.8704e-11
523	6.8702e-11	6.8703e-11	6.8703e-11
524	6.8701e-11	6.8702e-11	6.8702e-11
525	6.8700e-11	6.8701e-11	6.8701e-11
526	6.8699e-11	6.8700e-11	6.8700e-11
527	6.8697e-11	6.8698e-11	6.8698e-11
528	6.8696e-11	6.8697e-11	6.8697e-11
529	6.8695e-11	6.8696e-11	6.8696e-11
530	6.8694e-11	6.8695e-11	6.8695e-11
531	6.8693e-11	6.8694e-11	6.8694e-11
532	6.8692e-11	6.8693e-11	6.8693e-11
533	6.8690e-11	6.8691e-11	6.8691e-11
534	6.8689e-11	6.8690e-11	6.8690e-11
535	6.8688e-11	6.8689e-11	6.8689e-11
536	6.8687e-11	6.8688e-11	6.8688e-11
537	6.8686e-11	6.8687e-11	6.8687e-11
538	6.8685e-11	6.8686e-11	6.8686e-11
539	6.8683e-11	6.8684e-11	6.8684e-11
540	6.8682e-11	6.8683e-11	6.8683e-11
541	6.8681e-11	6.8682e-11	6.8682e-11
542	6.8680e-11	6.8681e-11	6.8681e-11
543	6.8679e-11	6.8680e-11	6.8680e-11
544	6.8677e-11	6.8679e-11	6.8679e-11
545	6.8676e-11	6.8677e-11	6.8677e-11
546	6.8675e-11	6.8676e-11	6.8676e-11
547	6.8674e-11	6.8675e-11	6.8675e-11
548	6.8673e-11	6.8674e-11	6.8674e-11
549	6.8672e-11	6.8673e-11	6.8673e-11
550	6.8670e-11	6.8672e-11	6.8672e-11
551	6.8669e-11	6.8670e-11	6.8670e-11
552	6.8668e-11	6.8669e-11	6.8669e-11
553	6.8667e-11	6.8668e-11	6.8668e-11
554	6.8666e-11	6.8667e-11	6.8667e-11
555	6.8665e-11	6.8666e-11	6.8666e-11
556	6.8663e-11	6.8665e-11	6.8665e-11
557	6.8662e-11	6.8663e-11	6.8663e-11
558	6.8661e-11	6.8662e-11	6.8662e-11
559	6.8660e-11	6.8661e-11	6.8661e-11
560	6.8659e-11	6.8660e-11	6.8660e-11

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x	$A(x)$	P_{v1}	P_{v2}
561	6.8658e-11	6.8659e-11	6.8659e-11
562	6.8656e-11	6.8658e-11	6.8658e-11
563	6.8655e-11	6.8656e-11	6.8656e-11
564	6.8654e-11	6.8655e-11	6.8655e-11
565	6.8653e-11	6.8654e-11	6.8654e-11
566	6.8652e-11	6.8653e-11	6.8653e-11
567	6.8651e-11	6.8652e-11	6.8652e-11
568	6.8649e-11	6.8651e-11	6.8651e-11
569	6.8648e-11	6.8649e-11	6.8649e-11
570	6.8647e-11	6.8648e-11	6.8648e-11
571	6.8646e-11	6.8647e-11	6.8647e-11
572	6.8645e-11	6.8646e-11	6.8646e-11
573	6.8644e-11	6.8645e-11	6.8645e-11
574	6.8642e-11	6.8644e-11	6.8644e-11
575	6.8641e-11	6.8642e-11	6.8642e-11
576	6.8640e-11	6.8641e-11	6.8641e-11
577	6.8639e-11	6.8640e-11	6.8640e-11
578	6.8638e-11	6.8639e-11	6.8639e-11
579	6.8637e-11	6.8638e-11	6.8638e-11
580	6.8635e-11	6.8637e-11	6.8637e-11
581	6.8634e-11	6.8635e-11	6.8635e-11
582	6.8633e-11	6.8634e-11	6.8634e-11
583	6.8632e-11	6.8633e-11	6.8633e-11
584	6.8631e-11	6.8632e-11	6.8632e-11
585	6.8630e-11	6.8631e-11	6.8631e-11
586	6.8628e-11	6.8630e-11	6.8630e-11
587	6.8627e-11	6.8628e-11	6.8628e-11
588	6.8626e-11	6.8627e-11	6.8627e-11
589	6.8625e-11	6.8626e-11	6.8626e-11
590	6.8624e-11	6.8625e-11	6.8625e-11
591	6.8623e-11	6.8624e-11	6.8624e-11
592	6.8621e-11	6.8623e-11	6.8623e-11
593	6.8620e-11	6.8621e-11	6.8621e-11
594	6.8619e-11	6.8620e-11	6.8620e-11
595	6.8618e-11	6.8619e-11	6.8619e-11
596	6.8617e-11	6.8618e-11	6.8618e-11
597	6.8616e-11	6.8617e-11	6.8617e-11
598	6.8614e-11	6.8616e-11	6.8616e-11
599	6.8613e-11	6.8614e-11	6.8614e-11
600	6.8612e-11	6.8613e-11	6.8613e-11

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x	$A(x)$	P_{v1}	P_{v2}
601	6.8611e-11	6.8612e-11	6.8612e-11
602	6.8610e-11	6.8611e-11	6.8611e-11
603	6.8609e-11	6.8610e-11	6.8610e-11
604	6.8607e-11	6.8609e-11	6.8609e-11
605	6.8606e-11	6.8607e-11	6.8607e-11
606	6.8605e-11	6.8606e-11	6.8606e-11
607	6.8604e-11	6.8605e-11	6.8605e-11
608	6.8603e-11	6.8604e-11	6.8604e-11
609	6.8602e-11	6.8603e-11	6.8603e-11
610	6.8600e-11	6.8602e-11	6.8602e-11
611	6.8599e-11	6.8600e-11	6.8600e-11
612	6.8598e-11	6.8599e-11	6.8599e-11
613	6.8597e-11	6.8598e-11	6.8598e-11
614	6.8596e-11	6.8597e-11	6.8597e-11
615	6.8594e-11	6.8596e-11	6.8596e-11
616	6.8593e-11	6.8595e-11	6.8595e-11
617	6.8592e-11	6.8593e-11	6.8593e-11
618	6.8591e-11	6.8592e-11	6.8592e-11
619	6.8590e-11	6.8591e-11	6.8591e-11
620	6.8589e-11	6.8590e-11	6.8590e-11
621	6.8587e-11	6.8589e-11	6.8589e-11
622	6.8586e-11	6.8588e-11	6.8588e-11
623	6.8585e-11	6.8586e-11	6.8586e-11
624	6.8584e-11	6.8585e-11	6.8585e-11
625	6.8583e-11	6.8584e-11	6.8584e-11
626	6.8582e-11	6.8583e-11	6.8583e-11
627	6.8580e-11	6.8582e-11	6.8582e-11
628	6.8579e-11	6.8581e-11	6.8581e-11
629	6.8578e-11	6.8579e-11	6.8579e-11
630	6.8577e-11	6.8578e-11	6.8578e-11
631	6.8576e-11	6.8577e-11	6.8577e-11
632	6.8575e-11	6.8576e-11	6.8576e-11
633	6.8573e-11	6.8575e-11	6.8575e-11
634	6.8572e-11	6.8574e-11	6.8574e-11
635	6.8571e-11	6.8572e-11	6.8572e-11
636	6.8570e-11	6.8571e-11	6.8571e-11
637	6.8569e-11	6.8570e-11	6.8570e-11
638	6.8568e-11	6.8569e-11	6.8569e-11
639	6.8566e-11	6.8568e-11	6.8568e-11
640	6.8565e-11	6.8567e-11	6.8567e-11

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x	$A(x)$	P_{v1}	P_{v2}
641	6.8564e-11	6.8565e-11	6.8565e-11
642	6.8563e-11	6.8564e-11	6.8564e-11
643	6.8562e-11	6.8563e-11	6.8563e-11
644	6.8561e-11	6.8562e-11	6.8562e-11
645	6.8559e-11	6.8561e-11	6.8561e-11
646	6.8558e-11	6.8560e-11	6.8560e-11
647	6.8557e-11	6.8558e-11	6.8558e-11
648	6.8556e-11	6.8557e-11	6.8557e-11
649	6.8555e-11	6.8556e-11	6.8556e-11
650	6.8554e-11	6.8555e-11	6.8555e-11
651	6.8552e-11	6.8554e-11	6.8554e-11
652	6.8551e-11	6.8553e-11	6.8553e-11
653	6.8550e-11	6.8551e-11	6.8551e-11
654	6.8549e-11	6.8550e-11	6.8550e-11
655	6.8548e-11	6.8549e-11	6.8549e-11
656	6.8547e-11	6.8548e-11	6.8548e-11
657	6.8545e-11	6.8547e-11	6.8547e-11
658	6.8544e-11	6.8546e-11	6.8546e-11
659	6.8543e-11	6.8544e-11	6.8544e-11
660	6.8542e-11	6.8543e-11	6.8543e-11
661	6.8541e-11	6.8542e-11	6.8542e-11
662	6.8540e-11	6.8541e-11	6.8541e-11
663	6.8538e-11	6.8540e-11	6.8540e-11
664	6.8537e-11	6.8539e-11	6.8539e-11
665	6.8536e-11	6.8537e-11	6.8537e-11
666	6.8535e-11	6.8536e-11	6.8536e-11
667	6.8534e-11	6.8535e-11	6.8535e-11
668	6.8533e-11	6.8534e-11	6.8534e-11
669	6.8531e-11	6.8533e-11	6.8533e-11
670	6.8530e-11	6.8532e-11	6.8532e-11
671	6.8529e-11	6.8530e-11	6.8530e-11
672	6.8528e-11	6.8529e-11	6.8529e-11
673	6.8527e-11	6.8528e-11	6.8528e-11
674	6.8526e-11	6.8527e-11	6.8527e-11
675	6.8524e-11	6.8526e-11	6.8526e-11
676	6.8523e-11	6.8525e-11	6.8525e-11
677	6.8522e-11	6.8523e-11	6.8523e-11
678	6.8521e-11	6.8522e-11	6.8522e-11
679	6.8520e-11	6.8521e-11	6.8521e-11
680	6.8519e-11	6.8520e-11	6.8520e-11

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x	$A(x)$	P_{v1}	P_{v2}
681	6.8517e-11	6.8519e-11	6.8519e-11
682	6.8516e-11	6.8518e-11	6.8518e-11
683	6.8515e-11	6.8516e-11	6.8516e-11
684	6.8514e-11	6.8515e-11	6.8515e-11
685	6.8513e-11	6.8514e-11	6.8514e-11
686	6.8512e-11	6.8513e-11	6.8513e-11
687	6.8510e-11	6.8512e-11	6.8512e-11
688	6.8509e-11	6.8511e-11	6.8511e-11
689	6.8508e-11	6.8509e-11	6.8509e-11
690	6.8507e-11	6.8508e-11	6.8508e-11
691	6.8506e-11	6.8507e-11	6.8507e-11
692	6.8505e-11	6.8506e-11	6.8506e-11
693	6.8503e-11	6.8505e-11	6.8505e-11
694	6.8502e-11	6.8504e-11	6.8504e-11
695	6.8501e-11	6.8503e-11	6.8503e-11
696	6.8500e-11	6.8501e-11	6.8501e-11
697	6.8499e-11	6.8500e-11	6.8500e-11
698	6.8498e-11	6.8499e-11	6.8499e-11
699	6.8496e-11	6.8498e-11	6.8498e-11
700	6.8495e-11	6.8497e-11	6.8497e-11
701	6.8494e-11	6.8496e-11	6.8496e-11
702	6.8493e-11	6.8494e-11	6.8494e-11
703	6.8492e-11	6.8493e-11	6.8493e-11
704	6.8491e-11	6.8492e-11	6.8492e-11
705	6.8489e-11	6.8491e-11	6.8491e-11
706	6.8488e-11	6.8490e-11	6.8490e-11
707	6.8487e-11	6.8489e-11	6.8489e-11
708	6.8486e-11	6.8487e-11	6.8487e-11
709	6.8485e-11	6.8486e-11	6.8486e-11
710	6.8484e-11	6.8485e-11	6.8485e-11
711	6.8482e-11	6.8484e-11	6.8484e-11
712	6.8481e-11	6.8483e-11	6.8483e-11
713	6.8480e-11	6.8482e-11	6.8482e-11
714	6.8479e-11	6.8480e-11	6.8480e-11
715	6.8478e-11	6.8479e-11	6.8479e-11
716	6.8477e-11	6.8478e-11	6.8478e-11
717	6.8475e-11	6.8477e-11	6.8477e-11
718	6.8474e-11	6.8476e-11	6.8476e-11
719	6.8473e-11	6.8475e-11	6.8475e-11
720	6.8472e-11	6.8473e-11	6.8473e-11

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x	$A(x)$	P_{v1}	P_{v2}
721	6.8471e-11	6.8472e-11	6.8472e-11
722	6.8470e-11	6.8471e-11	6.8471e-11
723	6.8468e-11	6.8470e-11	6.8470e-11
724	6.8467e-11	6.8469e-11	6.8469e-11
725	6.8466e-11	6.8468e-11	6.8468e-11
726	6.8465e-11	6.8466e-11	6.8466e-11
727	6.8464e-11	6.8465e-11	6.8465e-11
728	6.8462e-11	6.8464e-11	6.8464e-11
729	6.8461e-11	6.8463e-11	6.8463e-11
730	6.8460e-11	6.8462e-11	6.8462e-11
731	6.8459e-11	6.8461e-11	6.8461e-11
732	6.8458e-11	6.8459e-11	6.8459e-11
733	6.8457e-11	6.8458e-11	6.8458e-11
734	6.8455e-11	6.8457e-11	6.8457e-11
735	6.8454e-11	6.8456e-11	6.8456e-11
736	6.8453e-11	6.8455e-11	6.8455e-11
737	6.8452e-11	6.8454e-11	6.8454e-11
738	6.8451e-11	6.8452e-11	6.8452e-11
739	6.8450e-11	6.8451e-11	6.8451e-11
740	6.8448e-11	6.8450e-11	6.8450e-11
741	6.8447e-11	6.8449e-11	6.8449e-11
742	6.8446e-11	6.8448e-11	6.8448e-11
743	6.8445e-11	6.8447e-11	6.8447e-11
744	6.8444e-11	6.8445e-11	6.8445e-11
745	6.8443e-11	6.8444e-11	6.8444e-11
746	6.8441e-11	6.8443e-11	6.8443e-11
747	6.8440e-11	6.8442e-11	6.8442e-11
748	6.8439e-11	6.8441e-11	6.8441e-11
749	6.8438e-11	6.8440e-11	6.8440e-11
750	6.8437e-11	6.8438e-11	6.8438e-11
751	6.8436e-11	6.8437e-11	6.8437e-11
752	6.8434e-11	6.8436e-11	6.8436e-11
753	6.8433e-11	6.8435e-11	6.8435e-11
754	6.8432e-11	6.8434e-11	6.8434e-11
755	6.8431e-11	6.8433e-11	6.8433e-11
756	6.8430e-11	6.8431e-11	6.8431e-11
757	6.8429e-11	6.8430e-11	6.8430e-11
758	6.8427e-11	6.8429e-11	6.8429e-11
759	6.8426e-11	6.8428e-11	6.8428e-11
760	6.8425e-11	6.8427e-11	6.8427e-11

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x	$A(x)$	P_{v1}	P_{v2}
761	6.8424e-11	6.8426e-11	6.8426e-11
762	6.8423e-11	6.8425e-11	6.8425e-11
763	6.8422e-11	6.8423e-11	6.8423e-11
764	6.8420e-11	6.8422e-11	6.8422e-11
765	6.8419e-11	6.8421e-11	6.8421e-11
766	6.8418e-11	6.8420e-11	6.8420e-11
767	6.8417e-11	6.8419e-11	6.8419e-11
768	6.8416e-11	6.8418e-11	6.8418e-11
769	6.8415e-11	6.8416e-11	6.8416e-11
770	6.8413e-11	6.8415e-11	6.8415e-11
771	6.8412e-11	6.8414e-11	6.8414e-11
772	6.8411e-11	6.8413e-11	6.8413e-11
773	6.8410e-11	6.8412e-11	6.8412e-11
774	6.8409e-11	6.8411e-11	6.8411e-11
775	6.8408e-11	6.8409e-11	6.8409e-11
776	6.8406e-11	6.8408e-11	6.8408e-11
777	6.8405e-11	6.8407e-11	6.8407e-11
778	6.8404e-11	6.8406e-11	6.8406e-11
779	6.8403e-11	6.8405e-11	6.8405e-11
780	6.8402e-11	6.8404e-11	6.8404e-11
781	6.8401e-11	6.8402e-11	6.8402e-11
782	6.8399e-11	6.8401e-11	6.8401e-11
783	6.8398e-11	6.8400e-11	6.8400e-11
784	6.8397e-11	6.8399e-11	6.8399e-11
785	6.8396e-11	6.8398e-11	6.8398e-11
786	6.8395e-11	6.8397e-11	6.8397e-11
787	6.8394e-11	6.8395e-11	6.8395e-11
788	6.8392e-11	6.8394e-11	6.8394e-11
789	6.8391e-11	6.8393e-11	6.8393e-11
790	6.8390e-11	6.8392e-11	6.8392e-11
791	6.8389e-11	6.8391e-11	6.8391e-11
792	6.8388e-11	6.8390e-11	6.8390e-11
793	6.8387e-11	6.8388e-11	6.8388e-11
794	6.8385e-11	6.8387e-11	6.8387e-11
795	6.8384e-11	6.8386e-11	6.8386e-11
796	6.8383e-11	6.8385e-11	6.8385e-11
797	6.8382e-11	6.8384e-11	6.8384e-11
798	6.8381e-11	6.8383e-11	6.8383e-11
799	6.8380e-11	6.8381e-11	6.8381e-11
800	6.8378e-11	6.8380e-11	6.8380e-11

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x	$A(x)$	P_{v1}	P_{v2}
801	6.8377e-11	6.8379e-11	6.8379e-11
802	6.8376e-11	6.8378e-11	6.8378e-11
803	6.8375e-11	6.8377e-11	6.8377e-11
804	6.8374e-11	6.8376e-11	6.8376e-11
805	6.8373e-11	6.8374e-11	6.8374e-11
806	6.8371e-11	6.8373e-11	6.8373e-11
807	6.8370e-11	6.8372e-11	6.8372e-11
808	6.8369e-11	6.8371e-11	6.8371e-11
809	6.8368e-11	6.8370e-11	6.8370e-11
810	6.8367e-11	6.8369e-11	6.8369e-11
811	6.8366e-11	6.8368e-11	6.8368e-11
812	6.8364e-11	6.8366e-11	6.8366e-11
813	6.8363e-11	6.8365e-11	6.8365e-11
814	6.8362e-11	6.8364e-11	6.8364e-11
815	6.8361e-11	6.8363e-11	6.8363e-11
816	6.8360e-11	6.8362e-11	6.8362e-11
817	6.8359e-11	6.8361e-11	6.8361e-11
818	6.8357e-11	6.8359e-11	6.8359e-11
819	6.8356e-11	6.8358e-11	6.8358e-11
820	6.8355e-11	6.8357e-11	6.8357e-11
821	6.8354e-11	6.8356e-11	6.8356e-11
822	6.8353e-11	6.8355e-11	6.8355e-11
823	6.8352e-11	6.8354e-11	6.8354e-11
824	6.8350e-11	6.8352e-11	6.8352e-11
825	6.8349e-11	6.8351e-11	6.8351e-11
826	6.8348e-11	6.8350e-11	6.8350e-11
827	6.8347e-11	6.8349e-11	6.8349e-11
828	6.8346e-11	6.8348e-11	6.8348e-11
829	6.8345e-11	6.8347e-11	6.8347e-11
830	6.8343e-11	6.8345e-11	6.8345e-11
831	6.8342e-11	6.8344e-11	6.8344e-11
832	6.8341e-11	6.8343e-11	6.8343e-11
833	6.8340e-11	6.8342e-11	6.8342e-11
834	6.8339e-11	6.8341e-11	6.8341e-11
835	6.8338e-11	6.8340e-11	6.8340e-11
836	6.8336e-11	6.8338e-11	6.8338e-11
837	6.8335e-11	6.8337e-11	6.8337e-11
838	6.8334e-11	6.8336e-11	6.8336e-11
839	6.8333e-11	6.8335e-11	6.8335e-11
840	6.8332e-11	6.8334e-11	6.8334e-11

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x	$A(x)$	P_{v1}	P_{v2}
841	6.8331e-11	6.8333e-11	6.8333e-11
842	6.8329e-11	6.8331e-11	6.8331e-11
843	6.8328e-11	6.8330e-11	6.8330e-11
844	6.8327e-11	6.8329e-11	6.8329e-11
845	6.8326e-11	6.8328e-11	6.8328e-11
846	6.8325e-11	6.8327e-11	6.8327e-11
847	6.8324e-11	6.8326e-11	6.8326e-11
848	6.8322e-11	6.8324e-11	6.8324e-11
849	6.8321e-11	6.8323e-11	6.8323e-11
850	6.8320e-11	6.8322e-11	6.8322e-11
851	6.8319e-11	6.8321e-11	6.8321e-11
852	6.8318e-11	6.8320e-11	6.8320e-11
853	6.8317e-11	6.8319e-11	6.8319e-11
854	6.8315e-11	6.8318e-11	6.8318e-11
855	6.8314e-11	6.8316e-11	6.8316e-11
856	6.8313e-11	6.8315e-11	6.8315e-11
857	6.8312e-11	6.8314e-11	6.8314e-11
858	6.8311e-11	6.8313e-11	6.8313e-11
859	6.8310e-11	6.8312e-11	6.8312e-11
860	6.8308e-11	6.8311e-11	6.8311e-11
861	6.8307e-11	6.8309e-11	6.8309e-11
862	6.8306e-11	6.8308e-11	6.8308e-11
863	6.8305e-11	6.8307e-11	6.8307e-11
864	6.8304e-11	6.8306e-11	6.8306e-11
865	6.8303e-11	6.8305e-11	6.8305e-11
866	6.8301e-11	6.8304e-11	6.8304e-11
867	6.8300e-11	6.8302e-11	6.8302e-11
868	6.8299e-11	6.8301e-11	6.8301e-11
869	6.8298e-11	6.8300e-11	6.8300e-11
870	6.8297e-11	6.8299e-11	6.8299e-11
871	6.8296e-11	6.8298e-11	6.8298e-11
872	6.8294e-11	6.8297e-11	6.8297e-11
873	6.8293e-11	6.8295e-11	6.8295e-11
874	6.8292e-11	6.8294e-11	6.8294e-11
875	6.8291e-11	6.8293e-11	6.8293e-11
876	6.8290e-11	6.8292e-11	6.8292e-11
877	6.8289e-11	6.8291e-11	6.8291e-11
878	6.8287e-11	6.8290e-11	6.8290e-11
879	6.8286e-11	6.8288e-11	6.8288e-11
880	6.8285e-11	6.8287e-11	6.8287e-11

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x	$A(x)$	P_{v1}	P_{v2}
881	6.8284e-11	6.8286e-11	6.8286e-11
882	6.8283e-11	6.8285e-11	6.8285e-11
883	6.8282e-11	6.8284e-11	6.8284e-11
884	6.8280e-11	6.8283e-11	6.8283e-11
885	6.8279e-11	6.8281e-11	6.8281e-11
886	6.8278e-11	6.8280e-11	6.8280e-11
887	6.8277e-11	6.8279e-11	6.8279e-11
888	6.8276e-11	6.8278e-11	6.8278e-11
889	6.8275e-11	6.8277e-11	6.8277e-11
890	6.8273e-11	6.8276e-11	6.8276e-11
891	6.8272e-11	6.8275e-11	6.8275e-11
892	6.8271e-11	6.8273e-11	6.8273e-11
893	6.8270e-11	6.8272e-11	6.8272e-11
894	6.8269e-11	6.8271e-11	6.8271e-11
895	6.8268e-11	6.8270e-11	6.8270e-11
896	6.8266e-11	6.8269e-11	6.8269e-11
897	6.8265e-11	6.8268e-11	6.8268e-11
898	6.8264e-11	6.8266e-11	6.8266e-11
899	6.8263e-11	6.8265e-11	6.8265e-11
900	6.8262e-11	6.8264e-11	6.8264e-11
901	6.8261e-11	6.8263e-11	6.8263e-11
902	6.8259e-11	6.8262e-11	6.8262e-11
903	6.8258e-11	6.8261e-11	6.8261e-11
904	6.8257e-11	6.8259e-11	6.8259e-11
905	6.8256e-11	6.8258e-11	6.8258e-11
906	6.8255e-11	6.8257e-11	6.8257e-11
907	6.8254e-11	6.8256e-11	6.8256e-11
908	6.8252e-11	6.8255e-11	6.8255e-11
909	6.8251e-11	6.8254e-11	6.8254e-11
910	6.8250e-11	6.8252e-11	6.8252e-11
911	6.8249e-11	6.8251e-11	6.8251e-11
912	6.8248e-11	6.8250e-11	6.8250e-11
913	6.8247e-11	6.8249e-11	6.8249e-11
914	6.8245e-11	6.8248e-11	6.8248e-11
915	6.8244e-11	6.8247e-11	6.8247e-11
916	6.8243e-11	6.8245e-11	6.8245e-11
917	6.8242e-11	6.8244e-11	6.8244e-11
918	6.8241e-11	6.8243e-11	6.8243e-11
919	6.8240e-11	6.8242e-11	6.8242e-11
920	6.8238e-11	6.8241e-11	6.8241e-11

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x	$A(x)$	P_{v1}	P_{v2}
921	6.8237e-11	6.8240e-11	6.8240e-11
922	6.8236e-11	6.8238e-11	6.8238e-11
923	6.8235e-11	6.8237e-11	6.8237e-11
924	6.8234e-11	6.8236e-11	6.8236e-11
925	6.8233e-11	6.8235e-11	6.8235e-11
926	6.8231e-11	6.8234e-11	6.8234e-11
927	6.8230e-11	6.8233e-11	6.8233e-11
928	6.8229e-11	6.8232e-11	6.8232e-11
929	6.8228e-11	6.8230e-11	6.8230e-11
930	6.8227e-11	6.8229e-11	6.8229e-11
931	6.8226e-11	6.8228e-11	6.8228e-11
932	6.8224e-11	6.8227e-11	6.8227e-11
933	6.8223e-11	6.8226e-11	6.8226e-11
934	6.8222e-11	6.8225e-11	6.8225e-11
935	6.8221e-11	6.8223e-11	6.8223e-11
936	6.8220e-11	6.8222e-11	6.8222e-11
937	6.8219e-11	6.8221e-11	6.8221e-11
938	6.8217e-11	6.8220e-11	6.8220e-11
939	6.8216e-11	6.8219e-11	6.8219e-11
940	6.8215e-11	6.8218e-11	6.8218e-11
941	6.8214e-11	6.8216e-11	6.8216e-11
942	6.8213e-11	6.8215e-11	6.8215e-11
943	6.8212e-11	6.8214e-11	6.8214e-11
944	6.8210e-11	6.8213e-11	6.8213e-11
945	6.8209e-11	6.8212e-11	6.8212e-11
946	6.8208e-11	6.8211e-11	6.8211e-11
947	6.8207e-11	6.8209e-11	6.8209e-11
948	6.8206e-11	6.8208e-11	6.8208e-11
949	6.8205e-11	6.8207e-11	6.8207e-11
950	6.8203e-11	6.8206e-11	6.8206e-11
951	6.8202e-11	6.8205e-11	6.8205e-11
952	6.8201e-11	6.8204e-11	6.8204e-11
953	6.8200e-11	6.8202e-11	6.8202e-11
954	6.8199e-11	6.8201e-11	6.8201e-11
955	6.8198e-11	6.8200e-11	6.8200e-11
956	6.8196e-11	6.8199e-11	6.8199e-11
957	6.8195e-11	6.8198e-11	6.8198e-11
958	6.8194e-11	6.8197e-11	6.8197e-11
959	6.8193e-11	6.8196e-11	6.8196e-11
960	6.8192e-11	6.8194e-11	6.8194e-11

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x	$A(x)$	P_{v1}	P_{v2}
961	6.8191e-11	6.8193e-11	6.8193e-11
962	6.8189e-11	6.8192e-11	6.8192e-11
963	6.8188e-11	6.8191e-11	6.8191e-11
964	6.8187e-11	6.8190e-11	6.8190e-11
965	6.8186e-11	6.8189e-11	6.8189e-11
966	6.8185e-11	6.8187e-11	6.8187e-11
967	6.8184e-11	6.8186e-11	6.8186e-11
968	6.8182e-11	6.8185e-11	6.8185e-11
969	6.8181e-11	6.8184e-11	6.8184e-11
970	6.8180e-11	6.8183e-11	6.8183e-11
971	6.8179e-11	6.8182e-11	6.8182e-11
972	6.8178e-11	6.8180e-11	6.8180e-11
973	6.8177e-11	6.8179e-11	6.8179e-11
974	6.8175e-11	6.8178e-11	6.8178e-11
975	6.8174e-11	6.8177e-11	6.8177e-11
976	6.8173e-11	6.8176e-11	6.8176e-11
977	6.8172e-11	6.8175e-11	6.8175e-11
978	6.8171e-11	6.8173e-11	6.8173e-11
979	6.8170e-11	6.8172e-11	6.8172e-11
980	6.8168e-11	6.8171e-11	6.8171e-11
981	6.8167e-11	6.8170e-11	6.8170e-11
982	6.8166e-11	6.8169e-11	6.8169e-11
983	6.8165e-11	6.8168e-11	6.8168e-11
984	6.8164e-11	6.8166e-11	6.8166e-11
985	6.8163e-11	6.8165e-11	6.8165e-11
986	6.8162e-11	6.8164e-11	6.8164e-11
987	6.8160e-11	6.8163e-11	6.8163e-11
988	6.8159e-11	6.8162e-11	6.8162e-11
989	6.8158e-11	6.8161e-11	6.8161e-11
990	6.8157e-11	6.8160e-11	6.8160e-11
991	6.8156e-11	6.8158e-11	6.8158e-11
992	6.8155e-11	6.8157e-11	6.8157e-11
993	6.8153e-11	6.8156e-11	6.8156e-11
994	6.8152e-11	6.8155e-11	6.8155e-11
995	6.8151e-11	6.8154e-11	6.8154e-11
996	6.8150e-11	6.8153e-11	6.8153e-11
997	6.8149e-11	6.8151e-11	6.8151e-11
998	6.8148e-11	6.8150e-11	6.8150e-11
999	6.8146e-11	6.8149e-11	6.8149e-11
1000	6.8145e-11	6.8148e-11	6.8148e-11

Appendix C Code

Listing 102: Code to compute analytical solution

```
#!/usr/bin/perl

use warnings;
use strict;

use NumericalRecipes;
use Erf;
use HelpParse;

use constant PI => 4 * atan2(1,1);


#=================================================#
#SUBROUTINES HERE
#=================================================#
#=================================================#
#Equation Subs
#=================================================#
sub confined_aquifer_ss_1d_flow{
    my ($args) = @_;
    my $x    = $args->{x};
    my $h0   = $args->{h0}; #ft
    my $hL   = $args->{hL};
    my $zL   = $args->{zL};

    my $CL = 0.001; #day^-1
    my $L  = 200;   #ft maxLen
    my $K  = 0.2;   #ft/day

    my $hx = 0;     #head_xdir
    my $Ux = 0;     #darcy_velocity (x dir)
    if ($x == 0){
        $hx = $h0;
    }
    else{
        my $hx1 = $h0 + (($hL-$h0)/(1+($K/($CL*$L))))*($x/$L);
        my $hx2 = $h0 + $CL*($hL-$zL)*($x/$K);

        if ($hx1 >= $zL){
            $hx = $hx1;
            $Ux = $CL*($hx - $hL);
        }
        else{
            $hx = $hx2;
            $Ux = $CL*($zL - $hL);
        }
    }

    my @ret_val = ();
    $ret_val[0] = $hx;
    $ret_val[1] = $Ux;

    return(@ret_val);
}

sub unconfined_aquifer_ss_1d_flow{
    my ($args) = @_;

    my $x    = $args->{x};
    my $h0   = $args->{h0};
    my $hL   = $args->{hL};
    my $L    = $args->{L};
    my $K    = $args->{K};
    my $Q    = $args->{Q};
    my $type = $args->{type};

    my $hx = 0;
    if ($x == 0){
        $hx = $h0;
    }
    else{
        if ($type eq 'noflow'){
            $hx = sqrt($h0*$h0 - ($Q*$L*$L/$K)*($x/$L)*($x/$L - 2));
        }
        else{
            $hx = sqrt($h0*$h0 + ($hL*$hL-$h0*$h0)*$x/$L + ($Q*$L*$L/$K)*($x/$L)*(1-$x/$L));
        }
    }

    my @ret_val = ();
```

```
    $ret_val[0] = $hx;

    return(@ret_val);
}

sub hetero_aquifer_ss_2d_flow{
    my ($args) = @_;

    my $x    = $args->{x};
    my $h0   = $args->{h0};
    my $hL   = $args->{hL};
    my $L    = $args->{L};
    my $K    = $args->{K};
    my $Q    = $args->{Q};
    my $type = $args->{type};

    my $hx = 0;
    if ($x == 0){
        $hx = $h0;
    }
    else{
        if ($type eq 'confined'){
            $hx = $h0*(1-$x/$L)+$hL*($x/$L)+$Q*$L*$L/(2*$K*100)*($x/$L)*(1-$x/$L);
        }
        else{ #unconfined - 2d
            $hx = sqrt($h0**2 + ($hL**2 - $h0**2)*$x/$L + ($Q*$L*$L/$K)*($x/$L)*(1-$x/$L)); #same as unconfined 1d
        }
    }

    my @ret_val = ();
    $ret_val[0] = $hx;

    return(@ret_val);
}

sub aquifer_recharge_drain_2d_flow{
    my ($args) = @_;

    my $x    = $args->{x};
    my $h0   = $args->{h0};
    my $Ls   = $args->{Ls};
    my $L    = $args->{L};
    my $K    = $args->{K};
    my $Q    = $args->{Q};
    my $type = $args->{type};

    my $hs = 50*(2-($Ls/$L));

    my $hx = 0;
    if ($x > $Ls){
        $hx = 50*(2-($x/$L));
    }
    else{
        $hx = sqrt($h0**2+($hs**2-$h0**2)*$x/$Ls + ($Q*$Ls**2/$K)*($x/$Ls)*(1-$x/$Ls));
    }

    my @ret_val = ();
    $ret_val[0] = $hx;

    return(@ret_val);
}

sub factorial{
    my ($n) = @_;
    my $fact = 1;
    my $i =  1;

    $fact *= ++$i while $i < $n;
    print "$fact\n";
    return $fact;
}


sub well_function{
    my ($u) = @_;
    my $Wu = 0;
=pod
    if ($u < 1){
        $Wu = -0.57721 + 0.99999*$u - 0.24991*$u**2 + 0.05519*$u**3 - 0.00976*$u**4 + 0.00107*$u**5 - log($u);
    }
    else{
        $Wu = (exp(-$u)/$u)*(($u**4 + 8.57332*$u**3 + 18.05901*$u**2 + 8.63476*$u + 0.26777)/($u**4 + 9.57332*$u
            **3 + 25.63295*$u**2 + 21.09965*$u + 3.95849));
    }
=cut
    my $fx = sub{ exp(-$_[0])/$_[0] };        #fx = exp(-x)/x
                                                     #a,     b, maxj, error);
```

```
    $Wu = NumericalRecipes::qromo('midinf', $fx, $u, 1e99,   25, 1e-10);

    return $Wu;
}


sub Theis_1935{
    my ($args) = @_;

    my $t    = $args->{t};
    my $Q    = $args->{Q};
    my $K    = $args->{K};
    my $b    = $args->{b};
    my $Ss   = $args->{Ss};
    my $r    = $args->{r};

    my $S = $Ss * $b;
    my $T = $K  * $b;

    my $s = 0;
    my $u = 0;

    if ($t > 0){
        $u = ($r**2 * $S)/(4*$T*$t);

        my $Wu = well_function($u);

        $s = ($Q/(4*PI*$T)) * $Wu;
    }
    else{
        $s = 0;
    }

    my @ret_val = ();
    $ret_val[0] = $s;

    return(@ret_val);
};


sub Theis_1935_2D{
    my ($args) = @_;

    my $t    = $args->{t};
    my $Q    = $args->{Q};
    my $Kx   = $args->{Kx};
    my $Ky   = $args->{Ky};
    my $b    = $args->{b};
    my $Ss   = $args->{Ss};
    my $x    = $args->{xdim};
    my $y    = $args->{ydim};

    my $S  = $Ss * $b;
    my $Tx = $Kx * $b;
    my $Ty = $Ky * $b;

    my $s = 0;
    my $u = 0;

    if ($t > 0){
        $u = (($x**2*$Ty + $y**2*$Tx) * $S)/(4*$Tx*$Ty*$t);

        my $Wu = well_function($u);

        $s = ($Q/(4*PI*sqrt($Tx*$Ty))) * $Wu;
    }
    else{
        $s = 0;
    }

    my @ret_val = ();
    $ret_val[0] = $s;

    return(@ret_val);
};


sub Hantush_Jacob_1955{
    my ($args) = @_;

    my $t    = $args->{t};
    my $Q    = $args->{Q};            #0.4
    my $K    = $args->{K};            #5e-3
    my $b    = $args->{b};            #1
    my $Ss   = $args->{Ss};           #1e-4
    my $r    = $args->{r};            #60
    my $eprime = $args->{eprime};     #1
```

```
    my $Kprime = $args->{Kprime};   #1e-6

    my $S = $Ss * $b;
    my $T = $K  * $b;

    my $s = 0;
    my $u = 0;
    my $B = 1;

    if ($t > 0){
        $u = ($r**2 * $S)/(4*$T*$t);
        $B = sqrt($T*$eprime/$Kprime);

        my $fx = sub{ exp(-$_[0]-($r**2/(4*$B**2*$_[0])))/$_[0] };

        my $Wu = NumericalRecipes::qromo('midinf', $fx, $u, 1e99, 25, 1e-10);

        $s = ($Q/(4*PI*$T))* ($Wu);
    }
    else{
        $s = 0;
    }

    my @ret_val = ();
    $ret_val[0] = $s;

    return(@ret_val);
};


sub Grobner_Hofreiter_1950_1D{
    my ($args) = @_;

    my $x              = $args->{x};
    my $t              = $args->{t};
    my $c0             = $args->{c0};
    my $Ux             = $args->{Ux};
    my $alphaL         = $args->{alphaL};
    my $thetae_tau_Dm = $args->{thetae_tau_Dm};
    my $kd             = $args->{kd};
    my $rhos           = $args->{rhos};
    my $lambda         = $args->{lambda};
    my $phi            = $args->{phi};
    my $Sw             = $args->{Sw};

    my $rhob   = $rhos*(1-$phi);
    my $thetae = $phi * $Sw;      #aka wc
    my $R      = 1 + ($rhob * $kd / $thetae);

    my $U   = sqrt($Ux**2);
    my $ux  = ($Ux**2/abs($U)) / $thetae;
    my $upx = $ux / $R;

    my $Dxx  = $alphaL*$ux + $thetae_tau_Dm;
    my $Dpxx = $Dxx / $R;

    my $B     = sqrt(($upx/(2*$Dpxx))**2 + $lambda/$Dpxx);
    my $sigma = sqrt($upx**2+4*$lambda*$Dpxx);

    my $cval = 0;
    if ($x == 0){
        $cval = $c0;
    }
    else{
        $cval = 0.5*$c0*exp(($upx*$x)/(2*$Dpxx))*(
            exp(-$x*$B)*Erf::erfc(($x-$sigma*$t)/(2*sqrt($Dpxx*$t))) +
            exp( $x*$B)*Erf::erfc(($x+$sigma*$t)/(2*sqrt($Dpxx*$t)))
            );
        if ($cval =~ /nan/){
            $cval = 0;
        }
    }

    return $cval
};


sub ATD123{
    my ($args) = @_;

    my $x              = $args->{x};
    my $y              = $args->{y};
    my $z              = $args->{z};
    my $time           = $args->{time};
    my $tstart         = $args->{tstart};
    my $tend           = $args->{tend};
    my $c0             = $args->{c0};
```

```
#     my $U               = $args->{U};
    my $Ux              = $args->{Ux};
    my $Uy              = $args->{Uy};
    my $Uz              = $args->{Uz};
#     my $thetae_tau_Dm = $args->{thetae_tau_Dm};
    my $theta           = $args->{theta}; #rotation angle - deg counterclockwise from x?
    my $tau             = $args->{tau};   #tortuosity
    my $Dm              = $args->{Dm};    #molecular diffusion

    my $kd              = $args->{kd};
    my $rhos            = $args->{rhos};
    my $lambda          = $args->{lambda};
    my $phi             = $args->{phi};
    my $Sw              = $args->{Sw};
    my $qc_star         = $args->{qc_star};
    my $num_disp_param= $args->{num_disp_param};
    my $alphaL          = $args->{alphaL};
    my $alphaT          = $args->{alphaT};
    my $alphaLH         = $args->{alphaLH};
    my $alphaLV         = $args->{alphaLV};
    my $alphaTH         = $args->{alphaTH};
    my $alphaTV         = $args->{alphaTV};
    my $dim             = $args->{dim};

    my $rhob   = $rhos*(1-$phi);
    my $thetae = $phi * $Sw;       #aka wc
    my $R      = 1 + ($rhob * $kd / $thetae);

    my ($U, $ux, $uy, $uz, $uxy, $uxz, $uyz);
    my ($upx, $upy, $upz, $upxy, $upxz, $upyz);
    my ($Dxx, $Dyy, $Dzz, $Dxy, $Dxz, $Dyz);
    my ($Dpxx, $Dpyy, $Dpzz, $Dpxy, $Dpxz, $Dpyz);
    $U = $ux = $uy = $uz = $uxy = $uxz = $uyz = $upx = $upy = $upz = $upxy = $upxz = $upyz  = 0;
    $Dxx = $Dyy = $Dzz = $Dxy = $Dxz = $Dyz = $Dpxx = $Dpyy = $Dpzz = $Dpxy = $Dpxz = $Dpyz = 0;

    $U = sqrt($Ux**2 + $Uy**2 + $Uz**2);

    if($Ux > 0 and $Uy > 0){
#        print "$x $y $Ux $Uz\n";
        ($x, $y)   = rotate_coord($x , $y,-$theta);
        ($Ux, $Uy) = rotate_coord($Ux,$Uy,-$theta);
#        print "$x $y $Ux $Uz\n";
    }
    elsif($Ux > 0 and $Uz > 0){
        ($x , $z)  = rotate_coord($x , $z,-$theta);
        ($Ux, $Uz) = rotate_coord($Ux,$Uz,-$theta);
    }
    elsif($Uy > 0 and $Uz > 0){
        ($y,  $z)  = rotate_coord($y,  $z,-$theta);
        ($Uy, $Uz) = rotate_coord($Uy,$Uz,-$theta);
    }

    $ux   = ($Ux**2/abs($U)) / $thetae;
    $uy   = ($Uy**2/abs($U)) / $thetae;
    $uz   = ($Uz**2/abs($U)) / $thetae;

    $uxy  = (($Ux * $Uy)/abs($U)) / $thetae;
    $uxz  = (($Ux * $Uz)/abs($U)) / $thetae;
    $uyz  = (($Uy * $Uz)/abs($U)) / $thetae;

    $upx  =  $ux / $R;
    $upy  =  $uy / $R;
    $upz  =  $uz / $R;
    $upxy = $uxy / $R;
    $upxz = $uxz / $R;
    $upyz = $uyz / $R;

    if ($num_disp_param == 4){
        $Dxx = $alphaLH*$ux + $alphaTH*$uy + $alphaTV*$uz + $thetae * $tau * $Dm;
        $Dyy = $alphaTH*$ux + $alphaLH*$uy + $alphaTV*$uz + $thetae * $tau * $Dm;
        $Dzz = $alphaTV*$ux + $alphaTV*$uy + $alphaLV*$uz + $thetae * $tau * $Dm;

        $Dxy = ($alphaLH - $alphaTH)*$uxy;
        $Dxz = ((($alphaLH+$alphaLV)/2) - $alphaTV)*$uxz;
        $Dyz = ((($alphaLH+$alphaLV)/2) - $alphaTV)*$uyz;
    }
    elsif($num_disp_param == 2){
        $Dxx = $alphaL*$ux + $alphaT*$uy + $alphaT*$uz + $thetae * $tau * $Dm;
        $Dyy = $alphaL*$uy + $alphaT*$ux + $alphaT*$uz + $thetae * $tau * $Dm;
        $Dzz = $alphaL*$uz + $alphaT*$ux + $alphaT*$uy + $thetae * $tau * $Dm;

        $Dxy = ($alphaL - $alphaT)*$uxy;
        $Dxz = ($alphaL - $alphaT)*$uxz;
        $Dyz = ($alphaL - $alphaT)*$uyz;
    }

    $Dpxx = $Dxx / $R;
```

```
    $Dpyy = $Dyy / $R;
    $Dpzz = $Dzz / $R;
    $Dpxy = $Dxy / $R;
    $Dpxz = $Dxz / $R;
    $Dpyz = $Dyz / $R;

    my $cval = 0;

    my $tdiff = $tend - $tstart;

    if ($tdiff == 0){
        $cval = 0;
    }
    #elif (($x == +/-inf) or ($y == +/-inf) or ($z == +/-inf)
    #    $cval = 0;
    #}
    else{
        my $xs  = 0;  #location of source
        my $ys  = 0;
        my $zs  = 0;

        my $Gx = sub {
            my $diff = $_[0];
            1/sqrt(4*PI*$Dpxx*$diff)*exp( (-(($x-$xs)-$upx*$diff)**2 / (4*$Dpxx*$diff)) - $lambda*$diff);
        };
        my $Gy = sub {
            my $diff = $_[0];
            1/sqrt(4*PI*$Dpyy*$diff)*exp( -(($y-$ys)-$upy*$diff)**2 / (4*$Dpyy*$diff) );
#            1/sqrt(4*PI*$Dpyy*$diff)*exp(-(($y-$ys))**2 / (4*$Dpyy*$diff));
        };
        my $Gz = sub {
            my $diff = $_[0];
            1/sqrt(4*PI*$Dpzz*$diff)*exp(-(($z-$zs)-$upz*$diff)**2 / (4*$Dpzz*$diff));
#            1/sqrt(4*PI*$Dpzz*$diff)*exp(-(($z-$zs))**2 / (4*$Dpzz*$diff));
        };

        my $Gq = sub{
            my $S = 0;
            my $diff = $time-$_[0]; #maybe
            if($diff < 0){
                $S = 0;
            }
            elsif($diff == 0){
                $S = 0.5;
            }
            elsif($diff > 0){
                $S = 1;
            }

            if($dim == 1){
                $S * ($Gx->($diff));
            }
            elsif($dim == 2){
                $S * ($Gx->($diff) * $Gy->($diff));
            }
            elsif($dim ==3){
                $S * ($Gx->($diff) * $Gy->($diff) * $Gz->($diff));
            }
        };

        my $G = NumericalRecipes::qromo('midpnt', $Gq, $tstart, $tend, 25, 1e-10);

        $cval = (($qc_star)/($thetae * $R))*$G;
    }

    return $cval;
}


sub calc_conc{
    my ($mass, $R, $theta) = @_;

    my $cL = $mass/($theta * $R);

    return $cL
}


#------------------------------------------------------------------------------
#HELPER SUBS
#------------------------------------------------------------------------------
sub sum {
  my $sum = shift;
  $sum += shift while @_;
  return $sum;
}
```

```
sub getfmts_aux{
    my ($data) = @_;
    my $fmt = (split(/-/,$data))[1];
    $fmt = get_fmt({format => $fmt}); #"%.fmtX.f" etc
    return $fmt;
}

sub getfmts{
    my ($ans) = @_;

    my $xdata = (split(/~/,$ans))[0];
    my $vdata = (split(/~/,$ans))[1];

    my $fmtX = getfmts_aux($xdata);
    my $fmtV = getfmts_aux($vdata);

    my @fmts = ($fmtX, $fmtV);

    return @fmts
}

sub rotate_coord{
    my ($x, $y, $theta_deg) = @_;
    my $theta = $theta_deg * PI/180;

    my $xp = $x*cos($theta) - $y*sin($theta);
    my $yp = $x*sin($theta) + $y*cos($theta);

#       print "$xp $yp\n";
    return ($xp, $yp);
}

sub rotate{
    my ($xvals_ref, $yvals_ref, $theta_deg) = @_;


    my @xpvals = ();
    my @ypvals = ();

    my @xvals = @$xvals_ref;
    my @yvals = @$yvals_ref;

    my $i = 0;
    my $xp =0;
    my $yp =0;
    foreach my $x (@xvals){
        my $y = $yvals[$i];
        ($xp, $yp) = rotate_coord($x,$y,$theta_deg);

#       print "$xp $yp\n";

        push @xpvals, $xp;
        push @ypvals, $yp;

        $i++;
    }

    return (\@xpvals,\@ypvals);
}


#--------------------------------------------------------------------------------
#PROBLEMS
#--------------------------------------------------------------------------------
#confined aquifer with steady-state 1D flow
sub sub41{
    my ($args) = @_;
    my $in    = $args->{in};    #4.1.1-100.sav
    my $xvals = $args->{val1}; #0,20,40,...200
    my $yvals = $args->{val2}; #20
    my $zvals = $args->{val3}; #1
    my $ans   = $args->{ans};  #X-0~P-2

    $xvals = check_coord_vals($xvals);

    my $valindex = 0;
    if($ans =~ /P/){
        $valindex = 0;
    }
    elsif($ans =~ /U/){
        $valindex = 1;
    }
    else{
        print "Error ans not found\n";
        exit;
    }
```

```
    my ($h0, $hL, $zL) = 0;
    if($in =~ /4\.1\.1/){
        $h0 = 50;
        $hL = (split(/-/,$in))[1]; #100.sav
        $hL =~ s/\..*$//g;         #100
        $zL = 0;
    }
    elsif($in =~ /4\.1\.2/){
        $h0 = (split(/-/,$in))[1];
        $h0 =~ s/\..*$//g;
        $hL = 100;
        $zL = 75;
    }
    else{
        print "Error case not defined for $in\n";
        exit;
    }

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my @res  = ();
    my $val  = 0;
    my $line = '';
    foreach my $x (split(/,/, $xvals)){
        my (@vals) =  confined_aquifer_ss_1d_flow({
                                                x    => $x,
                                                h0   => $h0,
                                                hL   => $hL,
                                                zL   => $zL,
                                               });
        $x   = sprintf($fmtX,$x);
        $val = sprintf($fmtV,$vals[$valindex]);
        $line = "$x\t$val";
        push @res, $line;
    }
    return @res;
}

#unconfined aquifer with stead-state 1D flow, without recharge
sub sub42{
    my ($args) = @_;
    my $in     = $args->{in};
    my $xvals = $args->{val1};
    my $yvals = $args->{val2};
    my $zvals = $args->{val3};
    my $ans    = $args->{ans};

    $xvals = check_coord_vals($xvals);

    my ($h0, $L, $K, $Q) = 0;
    my $type = '';

    if($in =~ /4\.2\.1/){
        $h0   = 40;
        $L    = 100;
        $K    = 10**-3;
        $Q    = 0;
        $type = 'flow';
    }
    elsif($in =~ /4\.2\.2/){
        $h0   = 164;
        $L    = 1640;
        $K    = 3.28;
        $Q    = 0.0328;
        $type = 'noflow';
    }
    else{
        print "Error case not defined for $in\n";
        exit;
    }

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my @res  = ();
    my $val  = 0;
    my $line = '';
    foreach my $x (split(/,/, $xvals)){
        my (@vals) =  unconfined_aquifer_ss_1d_flow({
                                                x    => $x,
                                                h0   => $h0,
                                                hL   => 20,
                                                L    => $L,
                                                K    => $K,
```

```
                                                    Q    => $Q,
                                                    type => $type,
                                                   });
        $x   = sprintf($fmtX,$x);
        $val = sprintf($fmtV,$vals[0]);
        $line = "$x\t$val";
        push @res, $line;
    }
    return @res;
}

#confined hetero aquifer with stead-state 2D flow
sub sub431{
    my ($args) = @_;
    my $in    = $args->{in};
    my $xvals = $args->{val1};
    my $yvals = $args->{val2};
    my $zvals = $args->{val3};
    my $ans   = $args->{ans};

    $xvals = check_coord_vals($xvals);

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my @res = ();
    my $val  = 0;
    my $line = '';
    foreach my $x (split(/,/, $xvals)){
        my @vals = ();
        foreach my $y (split(/,/, $yvals)){
            if ($y <= 100){
                @vals =  hetero_aquifer_ss_2d_flow({
                    x    => $x,
                    h0   => 160,
                    hL   => 120,
                    L    => 1000,
                    K    => 1,
                    Q    => 0.001142,
                    type => 'confined',
                                                          });
            }
            elsif ($y > 110){
                @vals =  hetero_aquifer_ss_2d_flow({
                    x    => $x,
                    h0   => 170,
                    hL   => 130,
                    L    => 1000,
                    K    => 1,
                    Q    => 0,
                    type => 'unconfined',
                                                          });
            }

        }

        $x   = sprintf($fmtX,$x);
        $val = sprintf($fmtV,$vals[0]);
        $line = "$x\t$val";
        push @res, $line;
    }
    return @res;
}


#unconfined aquifer with stead-state 2D flow, recharge/drain boundary condition
sub sub441{
    my ($args) = @_;
    my $in    = $args->{in};
    my $xvals = $args->{val1};
    my $yvals = $args->{val2};
    my $zvals = $args->{val3};
    my $ans   = $args->{ans};

    $xvals = check_coord_vals($xvals);

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my @res  = ();
    my $val  = 0;
    my $line = '';
    foreach my $x (split(/,/, $xvals)){
        my (@vals) = aquifer_recharge_drain_2d_flow({
            x    => $x,
```

```
            h0   => 80,
            Ls   => 829.0384806,
            L    => 1000,
            K    => 1,
            Q    => 1/365.25,
            type => 'unconfined',
                                                });

        $x    = sprintf($fmtX, $x);
        $val  = sprintf($fmtV, $vals[0]);
        $line = "$x\t$val";
        push @res, $line;
    }
    return @res;
}


sub sub451{
    my ($args) = @_;
    my $in    = $args->{in};
    my $num_i = $args->{val1};
    my $dt    = $args->{val2};
    $_        = $args->{val3};
    my $ans   = $args->{ans};

    my @fmts = getfmts($ans);
    my $fmtT = $fmts[0];
    my $fmtV = $fmts[1];

    my @res  = ();
    my $val  = 0;
    my $line = '';
    my $time = 0;
    for (my $i=0; $i <= $num_i; $i = $i + 1){
        $time = $i * $dt;
        my (@ucvals) = Theis_1935({
            t   => $time,
            Q   => 4*10**-3,
            K   => 2.3*10**-4,
            b   => 10,
            Ss  => 7.5*10**-5,
            r   => 55,
                              });

        $time = sprintf($fmtT, $time);
        $val  = sprintf($fmtV, $ucvals[0]);
        $line = "$time\t$val";
        push @res, $line;
    }
    return @res;
}


sub sub461{
    my ($args) = @_;
    my $in    = $args->{in};
    my $num_i = $args->{val1};
    my $dt    = $args->{val2};
    $_        = $args->{val3};
    my $ans   = $args->{ans};

    my @fmts = getfmts($ans);
    my $fmtT = $fmts[0];
    my $fmtV = $fmts[1];

    my @ain  = split(/-/,$in);
    my $xdim = $ain[1];
    my $ydim = $ain[2];

    $xdim =~ s/\D//g;
    $ydim =~ s/\D//g;

    my @res  = ();
    my $val  = 0;
    my $line = '';
    my $time = 0;
    for (my $i=0; $i <= $num_i; $i = $i+1){
        $time = $i * $dt;
        my (@ucvals) = Theis_1935_2D({
            t     => $time,
            Q     => 4*10**-3,
            Kx    => 2.3*10**-4,
            Ky    => 2.3*10**-5,
            b     => 10,
            Ss    => 7.5*10**-5,
            xdim  => $xdim,
            ydim  => $ydim,
```

```
                                });

        $time = sprintf($fmtT, $time);
        $val  = sprintf($fmtV, $ucvals[0]);
        $line = "$time\t$val";
        push @res, $line;
    }
    return @res;
}


sub sub471{
    my ($args) = @_;
    my $in    = $args->{in};
    my $num_i = $args->{val1};
    my $dt    = $args->{val2};
    $_        = $args->{val3};
    my $ans   = $args->{ans};

    my @fmts = getfmts($ans);
    my $fmtT = $fmts[0];
    my $fmtV = $fmts[1];

    my @res  = ();
    my $val  = 0;
    my $valC = 0;
    my $line = '';
    my $time = 0;

    #this file has COMSOL results;
    #"/hpc/project/projwork22/porflow_qa/porflow_qa/Problems_Input/4_Flow/4.7/HantushJacob.dat";

    for (my $i=0; $i <= $num_i; $i = $i+1){
        $time = $i * $dt;

        my (@ucvals) = Hantush_Jacob_1955({
            t      => $time,
            Q      => 0.4,
            K      => 5e-3,
            b      => 1,
            Ss     => 1e-4,
            r      => 60,
            eprime=> 1,
            Kprime=> 1e-6,
                                          });
        $time = sprintf($fmtT, $time);
        $val  = sprintf($fmtV, $ucvals[0]);
        $line = "$time\t$val";
        push @res, $line;
    }
    return @res;
}


sub sub48sub49{
    my ($args) = @_;
    my $in      = $args->{in};
    my $xvals   = $args->{val1};
    my $yft     = $args->{val2};
    my $zft     = $args->{val3};
    my $ans     = $args->{ans};
    my $time    = $args->{time};

    $xvals = check_coord_vals($xvals);

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my $h0 = 0;
    my $h1 = 0;
    my $data = '';
    if ($in =~ /4\.8/){
        $h1   = 11;
        $h0   = 10;
    }
    elsif ($in =~ /4\.9/){
        $h1   = 9;
        $h0   = 10;
    }

    my $Kx   = 0.1;
    my $n    = 0.25;
    my $hbar = ($h0 + $h1)/2 ;

    my $Dh = $Kx*$hbar/$n;
```

```
    my $val  = 0;
    my @res  = ();
    my $line = '';

    #See The Analytical Solution of the Boussinesq Equation for Flow Induced by a Step Change of the Water Table
    #Moutsopoulos, Konstantinos N.  Transport in Porous Media 5/2010 85(3):919-940.
    #DOI: 10.1007/s11242-010-9559-3
    foreach my $x (split(/,/, $xvals)){
        $val = $h0 + Erf::erfc($x/(2*sqrt($Dh*$time)))*($h1-$h0); #Eq5

#         $val = sqrt($h0**2 + Erf::erfc($x/(2*sqrt($Dh*$time)))*($h1**2-$h0**2)); #Eq7

        $x    = sprintf($fmtX, $x);
        $val  = sprintf($fmtV, $val);
        $line = "$x\t$val";
        push @res, $line;
    }

    return @res;

}

sub sub4101{
    my ($args) = @_;
    my $in      = $args->{in};
    my $xft     = $args->{val1};
    my $yft     = $args->{val2};
    my $zft     = $args->{val3};
    my $ans     = $args->{ans};
    my $time    = $args->{time};

    my @xvals = split(/,/,check_coord_vals($xft));

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my @res = ();

    if ($in =~ "wrc"){
        #then do the analytical function (maybe need to make subroutine)
        my $alpha = 0.129;
        my $n     = 2.0619;
        my $m     = 0.515;
        my $swr   = 0.331;

        my $se = 1.0;
        my $sw = 1.0;

        my $line = '';
        foreach my $x (@xvals){
            $x = sprintf($fmtX, $x*1.0);

            if ($x > 0){      #if x <= 0, $se = 1
                $se = 1 / ((1 + ($alpha * $x)**$n)**$m)
            }
            $sw = $se*(1-$swr) + $swr;
            $sw   = sprintf($fmtV, $sw);
            $line =  "$x\t$sw";
            push @res, $line;
        }
    }
    else{
        my $line = '';
        my $val  = '';
        #precalculated results
        if ($ans =~ /U/){
            $val  = -0.007025;
        }
        else{
            $val = 0.750;
        }
        foreach my $x (@xvals){
            $x = sprintf($fmtX, $x*1.0);
            $val = sprintf($fmtV, $val);
            $line = "$x\t$val";
            push @res, $line;
        }
    }

    return @res;
}

sub sub511{
    my ($args) = @_;
    my $in      = $args->{in};
    my $xvals   = $args->{val1};
```

```
    my $yft      = $args->{val2};
    my $zft      = $args->{val3};
    my $ans      = $args->{ans};
    my $time     = $args->{time};

    $xvals = check_coord_vals($xvals);

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my @res = ();

    #then do the analytical function (maybe need to make subroutine)
    my $Ux             = 1.0;    #m/d
    my $phi            = 0.25;   #porosity
    my $alphaL         = 5.0;    #m
    my $alphaT         = 0;      #m
    my $thetae_tau_Dm  = 0.0;    #m2/d apparent molecular dispersion coefficient
    my $Sw             = 1.0;    #water saturation
    my $lambda         = 0.0;    #t1/2
    my $kd             = 0.0;    #m3/kg
    my $c0             = 1.0;    #kg/m3
    my $rhos           = 1.0;  #kg/m3

#     print "\n$in\n";
    if ($in =~ /-A\./){
        $kd = 0.3333;
    }
    elsif ($in =~ /-B\./){
        $lambda = 0.01;
    }
    elsif ($in =~ /-C\./){
        $lambda = 0.01;
        $kd = 1/3;
    }
    elsif ($in =~ /-J\./){
#        $alphaL = 0.15; #real value 0.01 - changed b/c PERL can't handle the truth (makes NAN)
        $alphaL = 0.15; #real value 0.01 - changed b/c PERL can't handle the truth (makes NAN)
    }
    elsif ($in =~ /-K\./){
#        $alphaL = 0.15; #real value 0.01 - changed b/c PERL can't handle the truth (makes NAN)
        $alphaL = 0.15; #real value 0.01 - changed b/c PERL can't handle the truth (makes NAN)
    }

    my $cval = 0;
    my $line = '';

    #parallel to flow field "x" dir
    foreach my $xval (split(/,/,$xvals)){

        $cval = Grobner_Hofreiter_1950_1D(
            {x       => $xval,
             t       => $time,
             c0      => $c0,
             Ux      => $Ux,
             alphaL  => $alphaL,
             thetae_tau_Dm => $thetae_tau_Dm,
             kd      => $kd,
             rhos    => $rhos,
             lambda  => $lambda,
             Sw      => $Sw,
             phi     => $phi,

            });
=pod
        $cval = ATD123(
            {'x'              => $xval,
             'y'              => 0,
             'z'              => 0,
             'time'           => $time,    #how does this work?
             'tstart'         => 0,        #how does this work?
             'tend'           => $time,    #- time_contaminant
             'c0'             => $c0,
             'Ux'             => $Ux,
             'Uy'             => 0,
             'Uz'             => 0,
             'num_disp_param'=> 2,
             'alphaL'         => $alphaL,
             'alphaT'         => $alphaT,
             'alphaLH'        => 0,
             'alphaTH'        => 0,
             'alphaLV'        => 0,
             'alphaTV'        => 0,
             'theta'          => 0,
             'tau'            => 0,
             'Dm'             => 0,
```

```
            'kd'          => $kd,
            'rhos'        => $rhos,
            'lambda'      => $lambda,
            'Sw'          => $Sw,
            'phi'         => $phi,
            'qc_star'     => 1, #$qc_star, maybe
            'dim'         => 1,
           });
=cut

        $xval = sprintf($fmtX, $xval);
        $cval = sprintf($fmtV, $cval);

        $line = "$xval\t$cval";
        push @res, $line;
    }

    return @res;
}

sub sub521{
    my ($args) = @_;
    my $in     = $args->{in};
    my $xvals  = $args->{val1};
    my $yvals  = $args->{val2};
    my $zvals  = $args->{val3};
    my $ans    = $args->{ans};
    my $time   = $args->{time};

    my @xvals = (split(/,/,check_coord_vals($xvals)));
    my @yvals = (split(/,/,check_coord_vals($yvals)));
    my @zvals = (split(/,/,check_coord_vals($zvals)));

    my $num_xvals = scalar @xvals;
    my $num_yvals = scalar @yvals;
    my $num_zvals = scalar @zvals;

    my $orient = '';
    my $num_vals = 0;
    if($num_xvals > 1 and $num_yvals == 1 and $num_zvals == 1){
        $orient = 'parallel';
        $num_vals = $num_xvals;
        @yvals = ($yvals[0]) x $num_vals;
        @zvals = ($zvals[0]) x $num_vals;
    }
    elsif($num_xvals == 1 and $num_yvals > 1 and $num_zvals == 1){
        $orient = 'transverse';
        $num_vals = $num_yvals;
        @xvals = ($xvals[0]) x $num_vals;
        @zvals = ($zvals[0]) x $num_vals;
    }
    elsif($num_xvals > 1 and $num_yvals > 1 and $num_zvals == 1){
        if($xvals[0] == -270 and $yvals[0] == 270){
            $orient = 'transverse-45';
            $num_vals = $num_xvals;
            @zvals = ($zvals[0]) x $num_vals;
        }
        elsif($xvals[0] == 30 and $yvals[0] == 570){
            $orient = 'transverse-45';
            $num_vals = $num_xvals;
            @zvals = ($zvals[0]) x $num_vals;
        }
        else{
            $orient = 'parallel-45';  #and transverse-45
            $num_vals = $num_xvals;
            @zvals = ($zvals[0]) x $num_vals;

        }
    }

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my @res = ();

    #then do the analytical function (maybe need to make subroutine)
    my $Ux          = 0.161;     #m/d
    my $Uy          = 0;         #m/d
    my $phi         = 0.35;      #porosity
    my $alphaL      = 21.3;      #m
    my $alphaT      = 4.3;       #m
    my $theta       = 0;         #grid angle
    my $tau         = 0;         #tortuosity
    my $Dm          = 0;         #molecular dispersion
    my $Sw          = 1.0;       #water saturation
    my $lambda      = 0.0;       #t1/2
```

```
    my $rhos          = 1.23077;       #kg/m3
    my $kd            = 0.0;           #m3/kg
    my $c0            = 0.0;           #kg/m3
    my $qc_star       = 7.040119e-3;   #kg/d/m

    if ($in =~ /-C-/){
        $kd = 0.4375;
    }
    elsif ($in =~ /-D-/){
        $lambda = 0.005;
    }
    elsif ($in =~ /-B-/){
        $Ux = 0.11384419;
        $Uy = 0.11384419;
        $theta = 45;
    }

    my $cval = 0;
    my $line = '';

    for (my $i=0; $i < $num_vals; $i++){
        my $xval = $xvals[$i];
        my $yval = $yvals[$i];
        my $zval = $zvals[$i];

        $cval = ATD123(
            {'x'              => $xval,
             'y'              => $yval,
             'z'              => $zval,
             'time'           => $time,   #maybe
             'tstart'         => 0,       #maybe
             'tend'           => $time,   #maybe
             'c0'             => $c0,
             'Ux'             => $Ux,
             'Uy'             => $Uy,
             'Uz'             => 0,
             'num_disp_param' => 2,
             'alphaL'         => $alphaL,
             'alphaT'         => $alphaT,
             'alphaLH'        => 0,
             'alphaTH'        => 0,
             'alphaLV'        => 0,
             'alphaTV'        => 0,
             'theta'          => $theta,
             'tau'            => $tau,
             'Dm'             => $Dm,
#                      'thetae_tau_Dm' => $thetae_tau_Dm,
             'kd'             => $kd,
             'rhos'           => $rhos,
             'lambda'         => $lambda,
             'Sw'             => $Sw,
             'phi'            => $phi,
             'qc_star'        => $qc_star,
             'dim'            => 2,
            });

        $cval = sprintf($fmtV, $cval);

        my $pval = 0;
        if($orient eq 'transverse'){
            $pval = $yval;
        }
        elsif( $orient eq 'parallel' or $orient =~ /-45/) {
            $pval = $xval;
        }
        $pval = sprintf($fmtX, $pval);

        $line = "$pval\t$cval";

        push @res, $line;
    }
    return @res;
}


sub sub531{
    my ($args) = @_;
    my $in       = $args->{in};
    my $xvals    = $args->{val1};
    my $yvals    = $args->{val2};
    my $zvals    = $args->{val3};
    my $ans      = $args->{ans};
    my $time     = $args->{time};

    my @xvals = (split(/,/,check_coord_vals($xvals)));
    my @yvals = (split(/,/,check_coord_vals($yvals)));
    my @zvals = (split(/,/,check_coord_vals($zvals)));
```

```
    my $num_xvals = scalar @xvals;
    my $num_yvals = scalar @yvals;
    my $num_zvals = scalar @zvals;

    my $orient = '';
    my $num_vals = 0;
    if($num_xvals > 1 and $num_yvals == 1 and $num_zvals == 1){
        $orient = 'parallel';
        $num_vals = $num_xvals;
        @yvals = ($yvals[0]) x $num_vals;
        @zvals = ($zvals[0]) x $num_vals;
    }
    elsif($num_xvals == 1 and $num_yvals > 1 and $num_zvals == 1){
        $orient = 'transverse-y';
        $num_vals = $num_yvals;
        @xvals = ($xvals[0]) x $num_vals;
        @zvals = ($zvals[0]) x $num_vals;
    }
    elsif($num_xvals == 1 and $num_yvals == 1 and $num_zvals > 1){
        $orient = 'transverse-z';
        $num_vals = $num_zvals;
        @xvals = ($xvals[0]) x $num_vals;
        @yvals = ($yvals[0]) x $num_vals;
    }

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my @res = ();

    #then do the analytical function (maybe need to make subroutine)
    my $Ux             = 0.161;       #m/d
    my $Uy             = 0;           #m/d
    my $Uz             = 0;           #m/d
    my $phi            = 0.35;        #porosity
    my $num_disp_param= 2;
    my $alphaL         = 21.3;        #m
    my $alphaT         = 4.3;         #m
    my $alphaLH        = 0;           #m
    my $alphaTH        = 0;           #m
    my $alphaLV        = 0;           #m
    my $alphaTV        = 0;           #m
#    my $thetae_tau_Dm = 0.0;          #apparent molecular dispersion coefficient
    my $theta          = 0;
    my $tau            = 0;
    my $Dm             = 0;
    my $Sw             = 1.0;         #water saturation
    my $lambda         = 0.0;         #t1/2
    my $rhos           = 1.23077;     #kg/m3
    my $kd             = 0.0;         #m3/kg
    my $c0             = 0.0;         #kg/m3
    my $qc_star        = 0.117922;    #kg/d/m

    if ($in =~ /-A-/){
        $num_disp_param = 4;
        $alphaLH = 21.3;
        $alphaTH = 4.3;
        $alphaLV = 21.3;
        $alphaTV = 4.3;
    }
    elsif ($in =~ /-B-/){
        $num_disp_param = 4;
        $alphaLH = 21.3;
        $alphaTH = 4.3;
        $alphaLV = 21.3;
        $alphaTV = 0.8;

    }
    elsif ($in =~ /-C-/){
        $num_disp_param = 4;
        $alphaLH = 21.3;
        $alphaTH = 4.3;
        $alphaLV = 4.3;
        $alphaTV = 0.8;
    }

    if ($in =~ /-1/){
        $Ux = 0.161;
        $Uy = 0.000;
        $Uz = 0.000;
    }
    elsif ($in =~ /-2/){
        $Ux = 0.1138;
        $Uy = 0.1138;
        $Uz = 0.000;
```

```
        $theta = 45;
    }
    elsif ($in =~ /-3/){
        $Ux = 0.1138;
        $Uy = 0.000;
        $Uz = 0.1138;
        $theta = 45;
    }

    my $cval = 0;
    my $line = '';

    for (my $i=0; $i < $num_vals; $i++){
        my $xval = $xvals[$i];
        my $yval = $yvals[$i];
        my $zval = $zvals[$i];

#     foreach my $xval (@xvals){
#         foreach my $yval (@yvals){
#             foreach my $zval (@zvals){

                $cval = ATD123(
                    {'x'              => $xval,
                     'y'              => $yval,
                     'z'              => $zval,
                     'time'           => $time,
                     'tstart'         => 0,
                     'tend'           => $time,
                     'c0'             => $c0,
                     'Ux'             => $Ux,
                     'Uy'             => $Uy,
                     'Uz'             => $Uz,
                     'num_disp_param'=> $num_disp_param,
                     'alphaL'         => $alphaL,
                     'alphaT'         => $alphaT,
                     'alphaLH'        => $alphaLH,
                     'alphaTH'        => $alphaTH,
                     'alphaLV'        => $alphaLV,
                     'alphaTV'        => $alphaTV,
#                     'thetae_tau_Dm' => $thetae_tau_Dm,
                     'theta'          => $theta,
                     'tau'            => $tau,
                     'Dm'             => $Dm,
                     'kd'             => $kd,
                     'rhos'           => $rhos,
                     'lambda'         => $lambda,
                     'Sw'             => $Sw,
                     'phi'            => $phi,
                     'qc_star'        => $qc_star,
                     'dim'            => 3,
                    });

                $cval = sprintf($fmtV, $cval);
                my $pval = 0;
                if( $orient eq 'transverse-y'){
                    $pval = sprintf($fmtX, $yval);
                }
                elsif( $orient eq 'transverse-z'){
                    $pval = sprintf($fmtX, $zval);
                }
                elsif( $orient eq 'parallel'){
                    $pval = sprintf($fmtX, $xval);
                }
                $line =  "$pval\t$cval";
                push @res, $line;
#             }
#         }
    }

    return @res;
}


sub sub541{
    my ($args) = @_;
    my $in      = $args->{in};    #Th-230 or Ra-226 or Rn-222
    my $xft     = $args->{val1}; #0.5
    my $yft     = $args->{val2}; #list of distances
    my $zft     = $args->{val3}; #1
    my $ans     = $args->{ans};   #Y-1~C-3
    my $time    = $args->{time}; #1e3

    my @yvals = split(/,/,check_coord_vals($yft));

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];
```

```
    my @res = ();

    #read a file for precalculated result
    my $data = "/hpc/project/projwork22/porflow_qa/porflow_qa/Problems_Input/5_Transport/5.4/Th-230/COMSOL-" . $in
         . ".txt";

    #dataformat is: y_pos val
    open(IN, "< $data") or die "cannot open $data: $!";
    chomp(my @lines = <IN>);
    close(IN);

    my $val = 0;
    my $line = '';
    foreach my $yval (@yvals){
        $yval = $yval * 1.0;

        my $dd1 = 0;
        my $dd2 = 0;
        my $dv1 = 0;
        my $dv2 = 0;

        foreach my $dline (@lines){
            $dline =~ s/^\s+|\s+$//g;
            my @dvals = split(/\s+/,$dline);

            if ($dvals[0] < $yval){
                $dd1 = $dvals[0] * 1.0;
                $dv1 = $dvals[1] * 1.0;
            }
            elsif ($dvals[0] == $yval){
                $val = $dvals[1] * 1.0;
                last;
            }
            elsif ( $dvals[0] > $yval){
                $dd2 = $dvals[0] * 1.0;
                $dv2 = $dvals[1] * 1.0;
                $val = (($dv2 - $dv1 ) / ($dd2 - $dd1))* ($yval - $dd1) + $dv1;  #assume linear between two points
                    : y = mx + b
                last;
            }
        }
        $yval = sprintf($fmtX, $yval);
        $val  = sprintf($fmtV, $val);
        $line = "$yval\t$val";
        push @res, $line;
    }

    return @res;
}

sub sub542{
    my ($args) = @_;
    my $in      = $args->{in};    #Rn-222
    my $times   = $args->{val1}; #list of times
    my $yft     = $args->{val2}; #1
    my $zft     = $args->{val3}; #1
    my $ans     = $args->{ans};   #Y-1~C-3
    my $time    = $args->{time}; #1e3

    my @tvals = split(/,/,check_coord_vals($times));

    my $tdata = (split(/~/,$ans))[0];
    my $pdata = (split(/~/,$ans))[1];

    my $fmtT = (split(/-/,$tdata))[1];

    my $valP = (split(/-/,$pdata))[0];
    my $fmtP = (split(/-/,$pdata))[1];

    my $tfmt = get_fmt({format => $fmtT});
    my $pfmt = get_fmt({format => $fmtP});

    my @res = ();

    #read a file for precalculated result
    my $data = "/hpc/project/projwork22/porflow_qa/porflow_qa/Problems_Input/5_Transport/5.4/Th-230/COMSOL-" . $in
         . ".txt";

    #dataformat is: y_pos val
    open(IN, "< $data") or die "cannot open $data: $!";
    chomp(my @lines = <IN>);
    close(IN);
    shift @lines; #get rid of the first line

    my $val = 0;
    my $line = '';
```

```
    foreach my $tval (@tvals){
        $tval = $tval * 1.0;

        my $dd1 = 0;
        my $dd2 = 0;
        my $dv1 = 0;
        my $dv2 = 0;

        foreach my $dline (@lines){
            $dline =~ s/^\s+|\s+$//g;
            if ($dline =~ /Elements/){
                last;
            }

            my @dvals = split(/\s+/,$dline);

            if ($dvals[0] < $tval){
                $dd1 = $dvals[0] * 1.0;
                $dv1 = $dvals[1] * 1.0;
            }
            elsif ($dvals[0] == $tval){
                $val = $dvals[1] * 1.0;
                last;
            }
            elsif ( $dvals[0] > $tval){
                $dd2 = $dvals[0] * 1.0;
                $dv2 = $dvals[1] * 1.0;
                $val = (($dv2 - $dv1 ) / ($dd2 - $dd1))* ($tval - $dd1) + $dv1;  #assume linear between two points
                    : y = mx + b
                last;
            }
        }
        $tval = sprintf($tfmt, $tval);
        $val  = sprintf($pfmt, $val);
        $line = "$tval\t$val";
        push @res, $line;
    }

    return @res;
}


sub sub551{
    my ($args) = @_;
    my $prob    = $args->{in};    #5.5/5.5.1  or 5.5/5.5.2/A
    my $xft     = $args->{val1}; #min0max400dt10
    my $yft     = $args->{val2}; #0.5
    my $zft     = $args->{val3}; #1
    my $ans     = $args->{ans};  #X-1~C-3
    my $time    = $args->{time}; #25

    my @xvals = split(/,/,check_coord_vals($xft));

    my $xdata = (split(/~/,$ans))[0];
    my $pdata = (split(/~/,$ans))[1];

    my $fmtX = (split(/-/,$xdata))[1];

    my $valP = (split(/-/,$pdata))[0];
    my $fmtP = (split(/-/,$pdata))[1];

    my @res = ();

    #read a file for precalculated result
    my $data = "/hpc/project/projwork22/porflow_qa/porflow_qa/Problems_Input/5_Transport/" . $prob . "/COMSOL-" .
         $valP . "-" . $time . ".txt";

    print "$prob␣$data\n";

    #dataformat is: x_pos val
    open(IN, "<␣$data") or die "cannot␣open␣$data:␣$!";
    chomp(my @lines = <IN>);
    close(IN);
    shift @lines; #get rid of the first line

    my $val = 0;
    my $line = '';
    foreach my $xval (@xvals){
        $xval = $xval * 1.0;
        my $xfmt = "%." . 0 . "f";
        $xval = sprintf($xfmt, $xval);

        foreach my $dline (@lines){
            $dline =~ s/^\s+|\s+$//g;
            my @dvals = split(/\s+/,$dline);
            if ($dvals[0] == $xval){
                $val = sprintf("%.3f",$dvals[1]*1.0);
```

```
                $line = "$xval\t$val";
                push @res, $line;
                last;
            }
        }
    }

    return @res;
}



sub sub611_org{
    my ($args) = @_;
    my $in      = $args->{in};
    my $num_i   = $args->{val1};
    my $dx      = $args->{val2};
    my $timecol = $args->{val3};
    my $ans     = $args->{ans};

    #ans = "X-1~VALUE-4"
    my $xdata = (split(/~/,$ans))[0];
    my $pdata = (split(/~/,$ans))[1];

    my $fmtX = (split(/-/,$xdata))[1];
    my $fmtP = (split(/-/,$pdata))[1];
    my $xfmt = get_fmt({format => $fmtX});
    my $cfmt = get_fmt({format => $fmtP});

    my $line = '';
    my $dist = 0;

    my @res = ();
    my $xval = 0;
    my $cval = 0;

    for (my $i=0; $i <= $num_i; $i = $i + 1){
        $dist = $i * $dx;

        #here's the analytical solution (really should be Green's func 1D)
        if($dist < 180){
            $cval = 0;
        }
        elsif($dist > 220){
            $cval = 0;
        }
        else{
            $cval = 1.0;
        }

        $xval = sprintf($xfmt, $dist);
        $cval = sprintf($cfmt, $cval);

        $line =  "$xval\t$cval";
        push @res, $line;

    }

    return @res;
}

sub sub611{
    my ($args) = @_;
    my $in      = $args->{in};
    my $num_i   = $args->{val1};
    my $dx      = $args->{val2};
    my $timecol = $args->{val3};
    my $ans     = $args->{ans};

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my $line = '';
    my @res = ();
    my $xval = 0;
    my $cval = 0;

    my $time             = 5.5;
    my $time_contaminant= 1-0.001;

    my $Ux             = 10.0;  #m/yr
    my $phi            = 0.25;  #porosity
    my $alphaL         = 0;     #m
    my $alphaT         = 0;     #m
    my $theta          = 0;
    my $tau            = 1;
```

```
    my $Dm              = 0.01;
#     my $thetae_tau_Dm = 0.0;    #m2/d apparent molecular dispersion coefficient
    my $Sw              = 1.0;    #water saturation
    my $lambda          = 0.0;    #t1/2
    my $kd              = 0.0;    #m3/kg
    my $c0              = 10.0;   #kg/m3
    my $rhos            = 1.0;    #kg/m3

    #parallel to flow field "x" dir
    for ( my $i=0; $i <= $num_i; $i = $i+1 ){
        $xval = $i * $dx;

        $cval = ATD123(
            {'x'              => $xval,
             'y'              => 0,
             'z'              => 0,
             'time'           => $time,      #how does this work?
             'tstart'         => 0,      #how does this work?
             'tend'           => 1,      #- time_contaminant
             'c0'             => $c0,
             'Ux'             => $Ux,
             'Uy'             => 0,
             'Uz'             => 0,
             'num_disp_param' => 2,
             'alphaL'         => $alphaL,
             'alphaT'         => $alphaT,
             'alphaLH'        => 0,
             'alphaTH'        => 0,
             'alphaLV'        => 0,
             'alphaTV'        => 0,
             'theta'          => $theta,
             'tau'            => $tau,
             'Dm'             => $Dm,
             'kd'             => $kd,
             'rhos'           => $rhos,
             'lambda'         => $lambda,
             'Sw'             => $Sw,
             'phi'            => $phi,
             'qc_star'        => 10, #$qc_star, maybe
             'dim'            => 1,
            });

        $xval = sprintf($fmtX, $xval);
        $cval = sprintf($fmtV, $cval);

        $line =  "$xval\t$cval";
        push @res, $line;
    }

    return @res;
}


sub sub612{
    my ($args) = @_;
    my $in       = $args->{in};
    my $num_i    = $args->{val1};
    my $dx       = $args->{val2};
    my $timecol  = $args->{val3};
    my $ans      = $args->{ans};

    my @fmts = getfmts($ans);
    my $fmtX = $fmts[0];
    my $fmtV = $fmts[1];

    my $line = '';
    my @res = ();
    my $xval = 0;
    my $cval = 0;

    my $time              = 5.5;
    my $time_contaminant= 1-0.001;

    my $Ux              = 10.0;   #m/yr
    my $phi             = 0.25;   #porosity
    my $alphaL          = 20.0;   #m
    my $alphaT          = 0;      #m
    my $theta           = 0;
    my $tau             = 1;
    my $Dm              = 0;
#     my $thetae_tau_Dm = 0.0;    #m2/d apparent molecular dispersion coefficient
    my $Sw              = 1.0;    #water saturation
    my $lambda          = 0.0;    #t1/2
    my $kd              = 0.0;    #m3/kg
    my $c0              = 10.0;   #kg/m3
    my $rhos            = 1.0;    #kg/m3
```

```
    #parallel to flow field "x" dir
    for ( my $i=0; $i <= $num_i; $i = $i+1 ){
        $xval = $i * $dx;

        $cval = ATD123(
            {'x'              => $xval,
             'y'              => 0,
             'z'              => 0,
             'time'           => $time,      #how does this work?
             'tstart'         => 0,      #how does this work?
             'tend'           => 1,      #- time_contaminant
             'c0'             => $c0,
             'Ux'             => $Ux,
             'Uy'             => 0,
             'Uz'             => 0,
             'num_disp_param'=> 2,
             'alphaL'         => $alphaL,
             'alphaT'         => $alphaT,
             'alphaLH'        => 0,
             'alphaTH'        => 0,
             'alphaLV'        => 0,
             'alphaTV'        => 0,
             'theta'          => $theta,
             'tau'            => $tau,
             'Dm'             => $Dm,
             'kd'             => $kd,
             'rhos'           => $rhos,
             'lambda'         => $lambda,
             'Sw'             => $Sw,
             'phi'            => $phi,
             'qc_star'        => 10, #$qc_star, maybe
             'dim'            => 1,
            });

        $xval = sprintf($fmtX, $xval);
        $cval = sprintf($fmtV, $cval);

        $line =  "$xval\t$cval";
        push @res, $line;
    }

    return @res;
}

sub sub71{
    my ($args) = @_;
    my $in    = $args->{in};
    my $num_i = $args->{val1};
    my $di    = $args->{val2};
    my $dt    = $args->{val3};
    my $ans   = $args->{ans};

    my $tdata = (split(/~/,$ans))[1];
    my $vdata = (split(/~/,$ans))[2];

    my $n = (split(/-/,$vdata))[0];
    $n =~ s/C//;
    if($n eq ''){
        $n = 1;
    }
    else{
        $n = $n;
    }

    my $fmtT = getfmts_aux($tdata);
    my $fmtV = getfmts_aux($vdata);

    #thalf in years
    my @thalf = (1,
                 5.6947e-2,  #U230    n0   20.8     d
                 5.8118e-5,  #Th226   n1   30.567  m
                 1.2035e-6,  #Ra222   n2   0.633    m
                 1.1091e-9,  #Rn218   n3   35       ms
                 5.2065e-12, #Po214   n4   164.3    us
                 2.2230e1,   #Pb210   n5   22.23    y
                 1.3722e-2,  #Bi210   n6   5.012    d
                 3.7886e-1,  #Po210   n7   138.3762 d
                 1 );        #Pb206   n8   stable

    my @lambdas = map{log(2)/$_} @thalf;

    my @n0s     = (0,1,0,0,0,0,0,0,0,0);

    my $line = '';
    my @res  = ();

    my $time = 0;
```

```
    my $n0    = $n0s[$n];

    for (my $k=0; $k <= $num_i; $k=$k+1){
        $time = $k * $dt;

        my $cval = 0;
        for (my $i=1; $i <= $n; $i=$i+1){
            my $lambda_product = 1;
            for (my $j=$i; $j <= $n-1; $j=$j+1){
                $lambda_product = $lambda_product *$lambdas[$j];
            }

            my $p3 = 0;
            for (my $j=$i; $j <= $n; $j=$j+1){
                my $lplj = 1;
                for(my $p=$i; $p <= $n; $p=$p+1){
                    if($p == $j){
                        $lplj = $lplj;
                    }
                    else{
                        $lplj = $lplj * ($lambdas[$p] - $lambdas[$j]);
                    }
                }
                $p3 = $p3 + exp(-$lambdas[$j]*$time)/$lplj;
            }
            $cval = $cval + ($n0s[$i] *  $lambda_product * $p3);
        }

        $time = sprintf($fmtT, $time);
        $cval = sprintf($fmtV, $cval);

        $line =  "$time\t$cval";
        push @res, $line;

    }
    return @res;
}

sub sub72{
    my ($args) = @_;
    my $in       = $args->{in};
    my $num_i    = $args->{val1};
    my $dt       = $args->{val2};
    my $timecol = $args->{val3};
    my $ans      = $args->{ans};

    #ans = "X-1~VALUE-4"
#     my $xdata = (split(/~/,$ans))[0];
#     my $pdata = (split(/~/,$ans))[1];

#     my $fmtX = (split(/-/,$xdata))[1];
#     my $fmtP = (split(/-/,$pdata))[1];
    my $tfmt = get_fmt({format => 0});
    my $cfmt = get_fmt({format => 4});

    my @res  = ();
    my $tval = 0;
    my $cval = 0;

    #analytical parameters
    my $sat  = 1;
    my $poro = 0.5;

    my $R    = 2;
    if ($in =~ /TRAN/){
        $sat = 0.5;

        my $den = 2.5;
        my $kd  =0.4;

        if ($in =~ /TRAN2/){ #eq 1 R=2
            $R = 1 + ($den*(1 - $poro)*$kd)/($sat*$poro);
        }
        else{ #eq 2 R=3
            $R = 1 + ($den * (1 - $poro)*$kd)/$poro;
        }
    }
    my $theta = $sat * $poro;

    my $time = 0;
    my $c    = 0;
    my $mass = 0;

    my $line = '';
    for (my $i=0; $i <= $num_i; $i = $i + 1){
        $time = $i * $dt;
```

```
        if ($time < 200){
            $c = calc_conc($mass, $R, $theta);
            $mass = $mass + 0.1;
        }
        elsif ($time == 200){
            $c = calc_conc($mass, $R, $theta);
        }
        else{
            $mass = $mass - 0.1;
            $c = calc_conc($mass, $R, $theta);
        }


        if ($in =~ /TRAN/){
            $c = $c;
        }
        else{ #in problems 1-3 concentration is solubility limited to 1.0
            if($c > 1){
                $c = 1;
            }
        }

        $tval = sprintf($tfmt, $time);
        $cval = sprintf($cfmt, $c);

        $line = "$tval\t$cval";

        push @res, $line;
    }

    return @res;}



sub sub731{
    my ($args) = @_;
    my $in      = $args->{in};
    my $num_i   = $args->{val1};
    my $dt      = $args->{val2};
    my $timecol = $args->{val3};
    my $ans     = $args->{ans};

    #ans = "VALUE-4"
    my $col  = (split(/-/,$ans))[0];
    my $fmtC = (split(/-/,$ans))[1];

    my $tfmt = get_fmt({format => 0});
    my $cfmt = get_fmt({format => $fmtC});

    my @res  = ();
    my $tval = 0;
    my $cval = 0;

    #analytical parameters
    my $width  = 1000; #cm
    my $height = 10;   #cm
    my $depth  = 1;    #cm

    my $poro  = 0.4;     #mL void / mL cell
    my $den   = 2.6;     #g/mL density of solid
    my $kd    = 641032.393040365; #defined so that things come out even
    my $thalf = 10**5;  #half-life yr
    my $I0    = 1;       #mols of parent at time 0
    my $V     = 100;     #cm/yr Darcy velocity


    my $bulk_den = (1-$poro) * $den;
    my $R        = 1 + $bulk_den * $kd / $poro;  #retardation factor = Mtotal / Mliquid
    my $Vtotal   = $width * $height * $depth;
    my $Vliquid  = $Vtotal * $poro;
    my $Mliquid  = $I0 / $R;
    my $Cliquid  = $Mliquid / $Vliquid;

    my $lambda = log(2)/$thalf;

    my $time = 0;
    my $c    = 0; #concentration moving through the bottom of the simulation grid

    my $Iparent = $I0;
    my $dP = 0;
    my $dD = 0;
    my $dC = 0;

    my $line = '';
    for (my $i=0; $i <= $num_i; $i = $i + 1){
        $time = $i * $dt;
        if($time == 0){
```

```
            $c = 0; #because all contaminant (Parent and Daughter) is still in the source zone
        }
        else{
            $Iparent = ($I0*$lambda+$V*$width*$depth*$Cliquid*(1-exp($lambda*$time)))/($lambda*exp($lambda*$time))
                ;
            if ($col eq 'C'){ #Parent
                $dP = $V*$width*$depth*($Cliquid);  #Cliquid ~ 1e-10 (need to get slightly smaller over time...
                    decay?)
                $dC = $dP;

                $c = $dC/($V*$width*$depth); #(-$V*$width*$Cliquid)/$lambda + ($I0 + ($V*$width*$Cliquid)/$lambda)
                    /exp($lambda*$time);

            }
            else{            #Daughter
                $dD = $Iparent*$lambda;
                $dC = $dD;
                $c  = $dC/($V * $width * $depth);
            }

        }

        $tval = sprintf($tfmt, $time);
        $cval = sprintf($cfmt, $c);

        $line = "$tval\t$cval";

        push @res, $line;
    }

    return @res;
}


sub sub74{
    my ($args) = @_;
    my $in      = $args->{in};
    my $v1      = $args->{val1};
    my $v2      = $args->{val2};
    my $v3      = $args->{val3};
    my $v4      = $args->{ans};

    my @res  = ();
    my $line = "";

    #7.4 just tests the STAT command, so these number should not vary
    if($in =~ /^SRCE\.loc$/){  #returns element location at specified point
        $line = "0\t49590";
    }
    elsif($in =~ /^DOMAIN-STAT\.out$/){ #returns element location where maximum concentration is found at end of
        time
        $line = "0\t49590";
    }
    elsif($in =~ /^RECT\.loc$/){         #number of elements for the subregion
        $line = "0\t20825";
    }
    elsif($in =~ /^RECT-STAT\.out$/){   #returns element location (in subregion) where max conc is found at end of
        time
        $line = "0\t49637";
    }

    push @res, $line;
    return @res;
}

#this is brittle, it should really use values coming in to get dx_left
sub sub75{
    my ($args) = @_;
    my $in      = $args->{in};
    my $v1      = $args->{val1};  #75
    my $v2      = $args->{val2};  #left
    my $v3      = $args->{val3};  #right
    my $v4      = $args->{ans};

#    print "\n\n".$v1." ".$v2." ".$v3." ".$v4."\n";

    my @res  = ();
    my $line = "";

    my $dx_left  = 9;
    my $dx_right = 1;
    my $dx       = $dx_left + $dx_right;

    my $ds_left  = $dx_left / 2.0;
    my $ds_right = $dx_right / 2.0;
    my $ds       = $ds_left + $ds_right;
```

```
    my $w_left    = 1;
    my $w_right   = 1;

    my $prop = $v4; #TRAV or DEFAULT

    if ($prop eq 'TRAV'){
        $w_left = $ds_left;
        $w_right= $ds_right;
    }
    else{
        $w_left  = 1/$ds_left;
        $w_right = 1/$ds_right;
    }
    my $w = $w_left + $w_right;

    my $keff          = 0;
    my $k_face_left   = 0;
    my $k_face_right  = 0;

#     print $w_left." ". $w_right."\n";

    #7.5 calculates the PROP value using a modifier
#     print "\n";
 #    foreach my $case (@cases){
    $k_face_left  = $v2*1; #case->[0];
    $k_face_right = $v3*1; #case->[1];
    print "$k_face_left\n";
    print "$k_face_right\n";
    print "$in\n";
    my $k_face_avg = 0;
    if($in =~ /Arithmetic/){   #avg Keff
        $k_face_avg = ($w_left * $k_face_left + $w_right * $k_face_right)/($w);
    }
    elsif($in =~ /Geometric/){
        $k_face_avg = exp(($w_left * log($k_face_left) + $w_right * log($k_face_right))/$w);
    }
    elsif($in =~ /Harmonic/){
        $k_face_avg = 1/(($w_left * (1/$k_face_left) + $w_right * (1/$k_face_right))/$w);
    }
#          print "$k_face_avg\n";

    my $ds_node12 = $ds_left;
    my $ds_node23 = $ds;
    my $ds_node34 = $ds_right;

    my $k_node12 = $k_face_left;
    my $k_node23 = $k_face_avg;
    my $k_node34 = $k_face_right;

    my $invk_node12 = 1/$k_node12;
    my $invk_node23 = 1/$k_node23;
    my $invk_node34 = 1/$k_node34;

    $keff = ($ds_node12 + $ds_node23 + $ds_node34)/($ds_node12*$invk_node12 + $ds_node23*$invk_node23 + $ds_node34
        *$invk_node34);
    $keff = sprintf("%1.6E", $keff);

    $line = $k_face_left.'\_'.$k_face_right."\t$keff";
    push @res, $line;
#     }
    return @res;
}


#============================================================================#
#MAIN CODE HERE
#============================================================================#
my $subroutine = $ARGV[0]; #sub411
my $in         = $ARGV[1]; #OB-DEPTH.sav
my $out        = $ARGV[2]; #OB-DEPTH.txt
my $val1       = $ARGV[3];
my $val2       = $ARGV[4];
my $val3       = $ARGV[5];
my $ans        = $ARGV[6]; #X-0~P-2
my $time       = $ARGV[7];

$in =~ s/\.*$//g; #get rid of file suffix

my $disp = {sub41   => \&sub41,
            sub42   => \&sub42,
            sub431  => \&sub431,
            sub441  => \&sub441,
            sub451  => \&sub451,
            sub461  => \&sub461,
            sub471  => \&sub471,
            sub481  => \&sub48sub49,
```

```
            sub491   => \&sub48sub49,
            sub4101 => \&sub4101,
            sub511   => \&sub511,
            sub521   => \&sub521,
            sub531   => \&sub531,
            sub532   => \&sub532,
            sub541   => \&sub541,
            sub542   => \&sub542,
            sub551   => \&sub551,
            sub552   => \&sub552,
            sub611   => \&sub611,
            sub612   => \&sub612,
            sub71    => \&sub71,
            sub72    => \&sub72,
            sub731   => \&sub731,
            sub74    => \&sub74,
            sub75    => \&sub75,
           };

my @res = $disp->{$subroutine}->({in     => $in,
                                  val1   => $val1,
                                  val2   => $val2,
                                  val3   => $val3,
                                  ans    => $ans,
                                  time   => $time,
                                 });
print "\n";

open(OUT, ">$out") or die "cannot open $out: $!";
foreach my $line (@res){
    print     "$line\n";
    print OUT "$line\n";
}
close(OUT);
```

Listing 103: Code from Abromowitz and Stegun to calculate ERF and ERFC

```
#!/usr/bin/perl

package Erf;

use warnings;
use strict;
use Exporter;

our @ISA = qw ( Exporter );
our @EXPORT = qw( erf erfc);

#*****************************************************************
#using polynomial approximation (see  Abromowitz & Stegun)
#max error is 1.5*10**(-7)
#*****************************************************************
sub erf{
    my ($x) = @_;
    my $erf = 0;
    if($x >= 0){
        my $p = 0.3275911;
        my $t = 1/(1+$p*$x);

        my $a1 =  0.254829592;
        my $a2 = -0.284496736;
        my $a3 =  1.421413741;
        my $a4 = -1.453152027;
        my $a5 =  1.061405429;

        my $ex = -2.74037099402514e-18;  #any bigger than this erf blows up when doing 5.1.1
           # $ex = -1.00000000827403709940251 4e-9; #get's 0 @ x=0-1.5e-7;

        $erf = 1 - ($a1*$t + $a2*$t**2 + $a3*$t**3+ $a4*$t**4 + $a5*$t**5)*exp(-$x*$x) + $ex;
    }
    else{
        $erf = -erf(-$x);
    }
    return $erf;
}


sub erfc{
    my ($x) = @_;

    my $erfc = 1 - erf($x);
    return $erfc;
}
```

```perl
#---------------------------------------------------
#MAIN
#---------------------------------------------------
unless (caller){
    print "---------␣ERF␣-------------\n";
    print erf(-1e9) . "␣-1.0\n";
    print erf(-3) . "␣-1.0\n";
    print erf(-2) . "␣-0.995\n";
    print erf(-1) . "␣-0.85\n";
    print erf(0)  . "␣␣0.0\n";
    print erf(1)  . "␣␣0.85\n";
    print erf(2)  . "␣␣0.995\n";
    print erf(3)  . "␣␣1.0\n";
    print erf(1e9) . "␣1.0\n";
    print "\n";
    print "\n";
    print "---------␣ERFC␣-------------\n";
    print erfc(-1e9) . "␣2.0\n";
    print erfc(-3)  . "␣2.0\n";
    print erfc(-2)  . "␣1.995\n";
    print erfc(-1)  . "␣1.85\n";
    print erfc(0)   . "␣1.0\n";
    print erfc(1)   . "␣0.15\n";
    print erfc(2)   . "␣0.005\n";
    print erfc(3)   . "␣0.0\n";
    print erfc(1e9) . "␣0.0\n";


    my $x = 0;
    my $s = 40;
    my $t = 5.5;
    my $Dpxx = 400;

    my $val = erfc(($x-$s*$t)/(2*sqrt($Dpxx*$t)));
    print "$val\n";


    exit;
}

1;
```

Listing 104: Code based on Numerical Recipes to compute integrals

```perl
#!/usr/bin/perl

package NumericalRecipes;

use warnings;
use strict;
use Exporter;
use POSIX;

use constant PI => 4 * atan2(1,1);

our @ISA = qw ( Exporter );
our @EXPORT = qw( qtrap qsimp qromb qromo);


#---------------------------------------------------------
# Functions from Numerical Recipes in C/C++
#---------------------------------------------------------

#---------------------------------------------------------
# Actual math
#---------------------------------------------------------
sub polint{
    my ($args) = @_;

    my $ref_xa = $args->{xa};
    my $ref_ya = $args->{ya};
    my $n      = $args->{n};
    my $x      = $args->{x};

    my $y      = 0; #$args->{y};
    my $dy     = 0; #$args->{dy};

    my @xa = @$ref_xa;
    my @ya = @$ref_ya;

    my $ns = 1;

    my ($den, $dif, $dift, $ho, $hp, $w);
    $den = $dif = $dift = $ho = $hp = $w = 0;
```

```
    my @c = ();
    my @d = ();

    $dif = abs($x - $xa[0]);
    for(my $i = 0; $i < $n; $i = $i + 1){
        $dift = abs($x - $xa[$i]);
        if($dift < $dif){
            $ns  = $i;
            $dif = $dift;
        }
        $c[$i] = $ya[$i];
        $d[$i] = $ya[$i];
    }

    $y = $ya[$ns];
    $ns = $ns - 1;
    for (my $m = 1; $m < $n; $m = $m + 1){
        for (my $i = 0; $i < $n-$m; $i = $i + 1){
            $ho  = $xa[$i]    - $x;
            $hp  = $xa[$i+$m] - $x;
            $w   = $c[$i+1]   - $d[$i];
            $den = $ho - $hp;
            if ($den == 0){
                print "Error in routine polint\n";
                exit;
            }
            $den = $w/$den;
            $d[$i]=$hp*$den;
            $c[$i]=$ho*$den;
        }

        if (2*($ns+1) < ($n - $m)){
            $dy = $c[$ns+1];
        }
        else{
            $dy = $d[$ns];
            $ns = $ns - 1;
        }
        $y = $y + $dy;
    }


    my @ans = ($y, $dy);
    return @ans;
}


sub trapzd{
    my ($func, $a, $b, $n) = @_;

    my $h = 0;
    my $s = 0;

    $h = ($b - $a)/$n;
    $s = $func->($a) + $func->($b);

    my $x = 0;
    for(my $i = 1; $i < $n; $i = $i+1){
        $x = $a + $i*$h;
        $s = $s + 2.0*($func->($x));
    }
    $s = $s * $h / 2.0;

    return $s;
}

sub xtrapzd{
    my ($func, $a, $b, $n, $s) = @_;

#     my $s = 0;
#     if ($n == 1){
#         $s = 0.5*($b-$a)*($func->($a) + $func->($b));
#     }
#     else{
#         $s = 0.5*($b-$a)*($func->($a) + $func->($b));
         my $it  = 2**($n-2);
         my $tnm = $it;
         my $del = 0;

         $del = ($b-$a)/$tnm;
         my $x = $a + 0.5*$del;
         my $sum = 0;
         for (my $k=1; $k <= $it; $k = $k+1){
             $sum = $sum + $func->($x);
             $x = $x + $del;
         }
         $s = 0.5*($s+($b-$a)*$sum/$tnm);
```

```
#     }
#     print "$s\n";

    return $s;
}

sub midpnt{
    my ($func, $a, $b, $n) = @_;

    my $h = 0;
    my $s = 0;

    $h = ($b - $a)/$n;
    my $x = 0;
    for(my $i = 0; $i < $n; $i = $i+1){
        $x = $a + ($i+0.5)*$h;
        $s = $s + $func->($x);
    }
    $s = $s * $h;
    return $s;
}


sub xmidpnt{
    my ($func, $a, $b, $n) = @_;

    my $s = 0;
    if ($n == 1){
        $s = ($b-$a)*($func->(0.5*($a+$b)));
    }
    else{
        $s = ($b-$a)*($func->(0.5*($a+$b)));

        my $it = 3**($n-2);
        my $tnm = $it;
        my $del = ($b-$a)/(3*$tnm);
        my $ddel = $del + $del;
        my $x = $a + 0.5*$del;
        my $sum = 0;
        for (my $k=1; $k <=$it; $k = $k+1){
            $sum = $sum + $func->($x);
            $x = $x + $ddel;
            $sum = $sum + $func->($x);
            $x = $x + $del;
        }
        $s = ($s+($b-$a)*$sum/$tnm)/3;
    }
    return $s;
}

sub midinf{
    my ($func, $aa, $bb, $n) = @_;

    my $funk = sub{ $func->(1/$_[0])/($_[0]**2) };

    my $a = 1/$bb;
    my $b = 1/$aa;
    my $s = midpnt($funk, $a, $b, $n);

    return $s;
}

#inverse sqare-root singularity at the lower limit aa
sub midsql{
    my ($func, $aa, $bb, $n) = @_;

    my $funk = 2*$_[0]*$func->{$aa + $_[0]*$_[0]};

    my $s = midsqi($funk, $aa, $bb, $n);
    return $s;
}
#inverse sqare-root singularity at the upper limit bb
sub midsqu{
    my ($func, $aa, $bb, $n) = @_;

    my $funk = 2*$_[0]*$func->{$bb - $_[0]*$_[0]};

    my $s = midsqi($funk, $aa, $bb, $n);

    return $s;
}
sub midsqi{
    my ($funk, $aa, $bb, $n) = @_;
    my $a = 0;
    my $b = sqrt($bb-$aa);
    my $s = midpnt($funk, $a, $b, $n);
    return $s;
```

```
}


sub midexp{
    my ($func, $aa, $bb, $n) = @_;

    my $funk = $func->{-log($_[0])}/$_[0];

    my $a = 0;
    my $b = exp(-$aa);

    my $s = midpnt($funk, $a, $b, $n);

    return $s;
}



#----------------------------------------------------------------
# Driver functions to get Actual math functions to converge
#----------------------------------------------------------------
sub qtrap{
    my ($func, $a, $b, $jmax, $eps, $type) = @_;

    my $s     = 0;
    my $old_s = 0;
    for(my $j = 1; $j<=$jmax; $j = $j+1){
        if($type eq 'trapzd'){
            $s = trapzd($func, $a, $b, 2**($j-1));   #where the real work is done
        }
        elsif($type eq 'midpnt'){
            $s = midpnt($func, $a, $b, 2**($j-1));   #where the real work is done
        }
        elsif($type eq 'midsql'){
            $s = midsql($func, $a, $b, 2**($j-1));   #where the real work is done
        }
        elsif($type eq 'midsqu'){
            $s = midsqu($func, $a, $b, 2**($j-1));   #where the real work is done
        }
        elsif($type eq 'midexp'){
            $s = midexp($func, $a, $b, 2**($j-1));   #where the real work is done
        }
        if($j > 5){
            if((abs($s-$old_s) < $eps*abs($old_s)) || ($s == 0 && $old_s == 0)){
                print "$j\n";
                return $s
            }
            $old_s = $s;
        }
    }
    print "Too many steps in routine qtrap\n";
    return 0;  #hopefully never get here

}

sub qsimp{
    my ($func, $a, $b, $jmax, $eps, $type) = @_;

    my ($s, $st, $ost, $os);
    $s = $st = $ost = $os = 0;

    for(my $j = 1; $j<=$jmax; $j = $j+1){
        if($type eq 'trapzd'){
            $st = trapzd($func, $a, $b, 2**($j-1));   #where the real work is done
            $s = (4*$st - $ost)/3;
        }
        elsif($type eq 'midpnt'){
            $st = midpnt($func, $a, $b, 2**($j-1));   #where the real work is done
            $s  = (9*$st - $ost)/8;
        }
        elsif($type eq 'midsql'){
            $st = midsql($func, $a, $b, 2**($j-1));   #where the real work is done
            $s  = (9*$st - $ost)/8;
        }
        elsif($type eq 'midsqu'){
            $st = midsqu($func, $a, $b, 2**($j-1));   #where the real work is done
            $s=(9*$st - $ost)/8;
        }
        elsif($type eq 'midexp'){
            $st = midexp($func, $a, $b, 2**($j-1));   #where the real work is done
            $s=(9*$st - $ost)/8;
        }

        if($j > 5){
            if( (abs($s-$os) < $eps*abs($os)) || ($s == 0 && $os == 0)){
                print "$j\n";
                return $s
```

```
            }
        }
        $os  = $s;
        $ost = $st;
    }
    print "Too many steps in routine qsimp\n";
    return 0;  #hopefully never get here

}

sub qromb{
    my ($func, $a, $b, $jmax, $eps) = @_;

    my $k = 5; #k = 2 is simpson's rule

    my @s = ();
    my @h = ();

    my ($ss, $dss);
    $ss = $dss = 0;

    $h[0] = 1;
    for(my $j = 1; $j<=$jmax; $j = $j+1){
        $s[$j-1] = trapzd($func, $a, $b, 2**($j-1));    #where the real work is done
        if($j >= $k){
            my @short_s = @s;
            my @short_h = @h;
            ($ss, $dss) = polint({
                'xa' => \@short_h,
                'ya' => \@short_s,
                'n'  => $j,
                'x'  => 0});
            if(abs($dss) <= $eps*abs($ss)){
#                print "$j\n";
                return $ss
            }
        }
        $h[$j] = 0.25*$h[$j-1];
    }
    print "Too many steps in routine qromb\n";
    return 0;  #hopefully never get here

}

sub qromo{
    my ($quad, $func, $a, $b, $jmax, $eps) = @_;

    my $quads = {'trapzd' => \&trapzd,
                 'midpnt' => \&midpnt,
                 'midsql' => \&midsql,
                 'midsqu' => \&midsqu,
                 'midexp' => \&midexp,
                 'midinf' => \&midinf,
    };

#     print "qromo using: $quad\n";

    my $k = 5; #k = 2 is simpson's rule

    my @s = ();
    my @h = ();

    my ($ss, $dss);
    $ss = $dss = 0;

    $h[0] = 1;
    for(my $j = 1; $j<=$jmax; $j = $j+1){
        $s[$j-1] = $quads->{$quad}->($func, $a, $b, 2**($j-1));
#         $s[$j-1] = trapzd($func, $a, $b, $j);    #where the real work is done
        if($j >= $k){
            my @short_s = @s;
            my @short_h = @h;
            ($ss, $dss) = polint({
                'xa' => \@short_h,
                'ya' => \@short_s,
                'n'  => $j,
                'x'  => 0});
            if(abs($dss) <= $eps*abs($ss)){
#                print "$j\n";
                return $ss
            }
        }
        $h[$j] = $h[$j-1]/9;
    }
    print "Too many steps in routine qromb\n";
    return 0;  #hopefully never get here
```

```
}


#------------------------------------------
sub test_polint{
    my $PI=3.141592653589793238;
    my ($i, $n);
    $i = $n = 1;

    my ($dy, $f, $x, $y);
    $dy = $f = $x = $y = 1;

    print "generation of interpolation tables\n";
    print "... sin(x) 0<x<PI \n";
    print "... exp(x) 0<x<1  \n";
    #print "how many entries go in these table?\n";
    $n = 20;
    if ($n < 1){
        return 1;
    }

    my @xa = ();
    my @ya = ();

    for (my $nfunc = 0; $nfunc < 2; $nfunc = $nfunc + 1){
        if ($nfunc == 0){
            print "sine function from 0 to PI\n";
            for ($i = 0; $i < $n; $i++){
                $xa[$i]=($i+1)*$PI/$n;
                $ya[$i]=sin($xa[$i]);
            }
        }
        elsif ($nfunc == 1){
            print "exponential function from 0 to 1\n";
            for ($i = 0; $i < $n; $i++){
                $xa[$i]=($i+1)*1/$n;
                $ya[$i]=exp($xa[$i]);
            }
        }
        else{
            return 1;
        }

        print "                 x                f(x)  interpolated            error\n";
        for ($i=0; $i < 10; $i = $i+1){
            if ($nfunc == 0){
                $x = (-0.05+($i+1)/10)*$PI;
                $f=sin($x);
            }
            elsif ($nfunc == 1){
                $x = (-0.05+($i+1)/10);
                $f=exp($x);
            }
            ($y, $dy) = polint({
                'xa' => \@xa,
                'ya' => \@ya,
                'n'  => $n,
                'x'  => $x});
            $x = sprintf("%.16f",$x);
            $f = sprintf("%.16f",$f);
            $y = sprintf("%.16f",$y);
            $dy = sprintf("%.16f",$dy);

            print "$x  $f  $y      $dy\n";
        }
    }
}


sub test_qromb_fint{
    my ($x) = @_;
    my $val = 4*$x*($x*$x-7)*sin($x)-(pow($x,4)-14*$x*$x+28)*cos($x);
    return $val;
}

sub test_qromb{
    my $PIO2 = 1.570796326794896619;
    my $a = 0;
    my $b = $PIO2;
    my $s = 0;

    print "Actual value of interal is:\n";

    my $av = test_qromb_fint($b) - test_qromb_fint($a);
    print "$av\n";

    print "Result from QROMB is:\n";
```

```
    $s = qromb( sub{$_[0]*$_[0]*($_[0]*$_[0]-2)*sin($_[0])}, $a, $b, 20, 10**-10);

    print "$s\n";
}
sub test_qromb2{
    my $a = 0;
    my $b = 1;
    my $s = 0;

    print "Actual value of interal is:\n";

    my $av = 0.842700792949715;
    print "$av\n";

    print "Result from QROMB is:\n";

    $s = qromb( sub{exp(-($_[0]*$_[0]))}, $a, $b, 20, 10**-10);
    $s = 2*$s/(sqrt(PI));
    print "$s\n";
    $s = qsimp( sub{exp(-($_[0]*$_[0]))}, $a, $b, 20, 10**-5,'midpnt');
    $s = 2*$s/(sqrt(PI));
    print "$s\n";
    $s = qsimp( sub{exp(-($_[0]*$_[0]))}, $a, $b, 20, 10**-5,'trapzd');
    $s = 2*$s/(sqrt(PI));
    print "$s\n";
}

sub test_qromo{
    my $a = 0;
    my $b = 1;
    my $s = 0;

    print "Actual value of interal is:\n";
    my $av = 0.842700792949715;
    print "$av\n";

    print "Results from QROMO is:\n";
    my @quads = ('midpnt', 'trapzd');

    foreach my $quad (@quads){
        $s = qromo($quad, sub{exp(-($_[0]*$_[0]))}, $a, $b, 14, 3*10**-9);
        $s = 2*$s/(sqrt(PI));
        print "$s\n";
    }
}

sub test_qromo_inf{
    my $a = 0;
    my $b = 1e99;
    my $s = 0;

    print "$a $b $s\n";
    exit;

    print "Actual value of interal is:\n";
    my $av = 0.842700792949715;
    print "$av\n";

    print "Results from QROMO is:\n";
    my @quads = ('midpnt', 'trapzd');

    foreach my $quad (@quads){
        $s = qromo($quad, sub{exp(-($_[0]*$_[0]))}, $a, $b, 14, 3*10**-9);
        $s = 2*$s/(sqrt(PI));
        print "$s\n";
    }
}

sub test1{
    my $a = 0;
    my $b = 1;
    my $s = 0;

    my $jmax = 20;
    my $eps  = 1e-10;

    my $fx = sub{ $_[0]**3 };

    my $av = 0.25;
    print "Exact result: $av\n";

    my $n = 7;
    my $m = 2**($n)+1;

    $s = trapzd($fx, $a, $b, $m);
    print "trapz result: $s with $m approximations\n";
```

```
    for(my $i = 1; $i<=$n; $i= $i+1){
        $s = xtrapzd($fx, $a, $b, $i, $s);
        print "xtrapz␣result:␣$s␣with␣$i␣approximations\n";
    }

    $s = midpnt($fx, $a, $b, $m);
    print "midpnt␣result:␣$s␣with␣$m␣approximations\n";


    my @quads = ('trapzd', 'midpnt');
    foreach my $quad (@quads){
        $s = qtrap( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qtrap␣result:␣$s\n";
    }

    foreach my $quad (@quads){
        $s = qsimp( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qsimp␣result:␣$s\n";
    }


    print "------------------------------\n";
}

sub test2{
    my $a = 1;
    my $b = 100;
    my $s = 0;

    my $jmax = 2500;
    my $eps  = 1e-5;

    my $fx = sub{ 1/$_[0] };

    my $av = log(100);
    print "Exact␣result:␣$av\n";

    my @quads = ('midpnt', 'trapzd');
    foreach my $quad (@quads){
        $s = qtrap( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qtrap␣result:␣$s\n";
    }
    foreach my $quad (@quads){
        $s = qsimp( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qsimp␣result:␣$s\n";
    }
    print "------------------------------\n";
}

sub test3{
    my $a = 0;
    my $b = 5000;
    my $s = 0;

    my $jmax = 125;
    my $eps  = 1e-5;

    my $fx = sub{ $_[0] };

    my $av = 12_500_000;
    print "Exact␣result:␣$av\n";

    my @quads = ('midpnt', 'trapzd');
    foreach my $quad (@quads){
        $s = qtrap( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qtrap␣result:␣$s\n";
    }
    foreach my $quad (@quads){
        $s = qsimp( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qsimp␣result:␣$s\n";
    }
    print "------------------------------\n";
}

sub test4{
    my $a = 0;
    my $b = 6000;
    my $s = 0;

    my $jmax = 125;
    my $eps  = 1e-5;

    my $fx = sub{ $_[0] };

    my $av = 18_000_000;
    print "Exact␣result:␣$av\n";
```

```
    my @quads = ('midpnt', 'trapzd');
    foreach my $quad (@quads){
        $s = qtrap( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qtrap␣result:␣$s\n";
    }
    foreach my $quad (@quads){
        $s = qsimp( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qsimp␣result:␣$s\n";
    }
    print "------------------------------\n";
}

sub test5{
    my $a = -3;
    my $b = 3;
    my $s = 0;

    my $jmax = 125;
    my $eps  = 1e-5;

    my $fx = sub{ exp($_[0]) };

    my $av = 20.03574985;
    print "Exact␣result:␣$av\n";

    my @quads = ('midpnt', 'trapzd');
    foreach my $quad (@quads){
        $s = qtrap( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qtrap␣result:␣$s\n";
    }
    foreach my $quad (@quads){
        $s = qsimp( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qsimp␣result:␣$s\n";
    }


    $eps = 1e-15;
    $s = qromb( $fx, $a, $b, $jmax, $eps);
    print "␣␣␣␣␣␣qromb␣result:␣$s\n";

    print "------------------------------\n";
}
sub test6{
    my $a = 1;
    my $b = 1e999;
    my $s = 0;

    my $jmax = 125;
    my $eps  = 1e-15;

    my $fx = sub{ 1/($_[0]**2) };

    my $av = 1;
    print "Exact␣result:␣$av\n";
=pod
    my @quads = ('midpnt', 'trapzd');
    foreach my $quad (@quads){
        $s = qtrap( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qtrap␣result:␣$s\n";
    }
    foreach my $quad (@quads){
        $s = qsimp( $fx, $a, $b, $jmax, $eps, $quad);
        print "$quad␣qsimp␣result:␣$s\n";
    }
=cut
#    $eps = 1e-15;
#    $s = qromb( $fx, $a, $b, $jmax, $eps);
#    print "      qromb result: $s\n";

    $s = qromo('midinf', $fx, $a, $b, $jmax, $eps);
    print "␣␣␣␣␣␣qromo␣result:␣$s\n";
    print "------------------------------\n";
}



#--------------------------------------
unless (caller){
    test1();

#    exit;
    test2();
    test3();
    test4();
```

```
    test5();
    test6();
    exit;
    test_qromo_inf();
    exit;
    test_qromo();
    test_polint();
    test_qromb();
    test_qromb2();
    exit;

#    print trapzd(sub {$_[0]**3}, 0,    1, 10) . " " . 0.25     . "\n";
#    print midpnt(sub {$_[0]**3}, 0,    1, 10) . " " . 0.25     . "\n";
    print qromb( sub {$_[0]**3}, 0,    1, 25, 10**-1)  . " " . 0.25     . "\n";
    exit;

    exit;
    print trapzd(sub {1/$_[0]} , 1,  100,  15) . " " . log(100) . "\n";
    print qtrap( sub {1/$_[0]} , 1,  100,  25, 10**-5 ) . " " . log(100)     . "\n";

    print trapzd(sub {$_[0]   }, 0, 5000, 15) . " " . 12500000 . "\n";
    print trapzd(sub {$_[0]   }, 0, 6000, 15) . " " . 18000000 . "\n";


# And to test
    print integrate_simpson(sub {$_[0]**3}, 0,    1,   100) . " " . 0.25     . "\n";
#print integrate_simpson(sub {1/$_[0]} , 1,  100,  1000) . " " . log(100) . "\n";
#print integrate_simpson(sub {$_[0]   }, 0, 5000, 10000) . " " . 12500000 . "\n";
#print integrate_simpson(sub {$_[0]   }, 0, 6000, 12000) . " " . 18000000 . "\n";
#print integrate_simpson(sub {(-$_[0]-60**2/(4*.0000001**2*$_[0]))/$_[0]   }, 1, 6000, 12000) . " " .  "\n";

    exit;
}
```

Listing 105: Code to help parse the input

```
#!/usr/bin/perl

package HelpParse;

use warnings;
use strict;
use Exporter;

our @ISA = qw ( Exporter );

#UPDATE THIS AFTER ADDING SUB
our @EXPORT = qw( check_coord_vals max min mean get_fmt union_isect get_val);

sub check_coord_vals{
    my ($cvals) = @_;

    if ($cvals =~ /max/){ #then this is a compressed version of the steps minAmaxB,dtT
        my @acvals = split(/,/,$cvals);
        my $minmax = $acvals[0];
        my $min = 0;
        my $max = 0;
        if ($minmax =~ /min/){
            $minmax =~ s/min//;
            $min = (split(/max/,$minmax))[0];
            $max = (split(/max/,$minmax))[1];
        }
        else{
            $max = $acvals[0];
            $max =~ s/max//;
        }

        my $dt  = $acvals[1];
        $dt =~ s/dt//;

        #get number of decimal places, to format number
        my $dp = $dt;
        if ($dp =~ /\./){ #has decimal place
            $dp =~ s/^.*\.//g;
            $dp = length $dp;
        }
        else{            #no decimal place
            $dp = 0;
        }
        my $formatdp = "%." . $dp . "f";

        my $tmp = '';
        if ($dt < 0){
            for (my $i = $min; $i >= $max; $i = $i + $dt){
                $i = sprintf($formatdp, $i);
```

```
                $tmp = $tmp . $i . ',';
            }
        }
        else{
            for (my $i = $min; $i <= $max; $i = $i + $dt){
                $i = sprintf($formatdp, $i);
                $tmp = $tmp . $i . ',';
            }
        }
        $tmp =~ s/,$//;
        $cvals = $tmp;
    }
#     elsif ($cvals eq 'all'){ #then all the steps are wanted
#     }
    return $cvals
}


sub union_isect{
    my ($args) = @_;
    my $a_ref = $args->{a};
    my $b_ref = $args->{b};

    my %union = ();
    my %isect = ();

    foreach my $e (@$a_ref, @$b_ref){
        $union{$e}++ && $isect{$e}++;
    }
    my @union = keys %union;
    my @isect = keys %isect;
    return (\@union, \@isect);
}


sub max{
    my @array = sort { $a <=> $b } @_;
    return $array[-1];
}
sub min{
    my @array = sort { $a <=> $b } @_;
    return $array[0];
}

sub mean{
    my @array = @_;
    my $total = 0;
    foreach (@array){
        $total = $total + $_;
    }
    my $mean = $total / $#array;
    return $mean
}


#convert fmt into proper string for sprint to use
sub get_fmt{
    my ($args) = @_;
    my $fmt = $args->{format};

    my $qfmt = '';
    if ($fmt =~ /[a-zA-Z]/){
        $fmt = lc $fmt;
        $qfmt = "%." . $fmt;
    }
    else{
        $qfmt = "%." . $fmt . "f";
    }
    return $qfmt ;
}

#------------------------------------------------------------------------
#used in sav-porflow; fc-velo-porflow
#------------------------------------------------------------------------
sub get_val{
    my ($args) = @_;

    my $file_info_ref = $args->{file_info};
    my $key           = $args->{record};
    my $index         = $args->{index};
    my $fmt           = $args->{fmt};
    my $time          = $args->{time};

    my @rec_keys = grep /$key/, keys %$file_info_ref;

    my $this_rec = 0;
    if ($key =~ /X/ or $key =~ /Y/ or $key =~ /Z/){ #time eq 'na'){
```

```
        $this_rec = 0;
    }
    else{
        my $i = 0;
        foreach my $rec_key (@rec_keys){
#               print "$key\n";
#               print "$rec_key\n";
            my $rec_time = (split(/TIME/,$rec_key))[1];
            if ($time == $rec_time * 1.0){
                $this_rec = $i;
                last;
            }
            $i = $i+1;
        }
    }


    my $pv = '';

    my $vals = $file_info_ref->{$rec_keys[$this_rec]};
    my @a_vals = @$vals;

    my $format = get_fmt({format => $fmt});

    $pv = sprintf($format, $a_vals[$index] * 1.0);     #make it numeric and pretty

    return $pv;
};

#------------------------------------------------------------
#MAIN
#------------------------------------------------------------
sub print_cvals{
    my ($cvals) = @_;
    my @cvals = split(/,/,$cvals);
    foreach my $v (@cvals){
        print "$v\n";
    }
    print "-----\n";
}

unless (caller){
    my $cvals = "0,1,2,3,4,5";
    print_cvals($cvals);

    $cvals = "min0max5,dt1";
    $cvals = check_coord_vals($cvals);
    print_cvals($cvals);

    exit;
}

1;

__DATA__
None
```

Listing 106: Input commands for each test case

```
#-----------------------------------------------------------------------------------------------
# copy the data to the working output directory, converting to proper SYSTEM type, as needed
#-----------------------------------------------------------------------------------------------
copy_and_convert_files(){
    INDIR=$1
    OUTDIR=$2

    #copy input files to correct ver_dir and convert as needed
    if [ "$DOPORFLOW" = 'porflow' ]; then
        for VER in ${VERS[@]}; do
            cp $INDIR/* $OUTDIR/$VER/.

            #convert #NOT CONVERTING RIGHT NOW

            #local PWD=pwd
            #cd $OUTDIR/$VER
            #find . -type f -exec dos2unix {} \;
            #cd $PWD
        done
    fi

    return
}

#-----------------------------------------------------------------------------------------------
```

```
# actually running porflow on the chosen file
# TOP_PROB is the top_level_problem
# PROB is the sub_dir(s) where the input file(s) are located#
# FILEIN = input file to run
# OTHER_FILES = other files, eg grid coords, called by the input file
# loop over all the PORFLOW versions (in the porflow_info.sh file)
#-------------------------------------------------------------------------------
run_file(){
    OUTDIR=$1
    FILEIN=$2

    if [ "$DOPORFLOW" = 'porflow' ]; then
        for VER in ${VERS[@]}; do
            local PWD=`pwd`
            cd $OUTDIR/$VER

            #create a file containg the porflow version within the directory (so the $FILEIN can load the
                appropriate file, if needed)
            local PART1=${VER%%.*}; local REST=${VER#*.}
            local PART2=${REST%%.*}
            echo "DEFINE PORVER = $PART1.$PART2" >  POR_VER.dat

            printf "\t\t\tRunning Porflow( $VER:$FILEIN )..."

            PVER=${VER/_*/}
            #get the right porflow for this version
            for PORFLOW in ${PORFLOWS[@]}; do
                if [[  $PORFLOW =~ "$PVER" ]]; then
                    PORFLOW_TO_RUN=$PORFLOW
                fi
            done

            $PORFLOW_TO_RUN $FILEIN > /dev/null 2>"err.txt"

            printf "...Done\n"
            cd $PWD
        done
    fi

    return
}


#-------------------------------------------------------------------------------
# create the analytical results in the proper output directory
#-------------------------------------------------------------------------------
run_anal(){
    local OUTDIR=$1   #Problems_Output_Platform/.../
    local SUB=$2      #OB
    local FILEIN=$3   #OB-DEPTH.sav
    local FILEOUT=$4  #OB-DEPTH.txt
    local PROG=$5     #Perl Program
    local VAL1=$6     #XVALS, values to loop over in perl program
    local VAL2=$7     #YVALS, values to loop over in perl program
    local VAL3=$8     #ZVALS, values to loop over in perl program
    local ANS=$9      #ans-format (P,U,H,etc)-(num dec places)
    local TIME=${10}  #time-step

    printf "\t\tRunning Analytical..."

    local ANALDIR=$OUTDIR/Analytical
    local PWD=`pwd`
    cd $ANALDIR

    #going to need to do some more thinking about combining into 1 code....b/c the format
    #of results differs, it may be better to have seperate front ends...
    #maybe make like modules...

    ${PROG} ${SUB} ${FILEIN} ${FILEOUT} ${VAL1} ${VAL2} ${VAL3} ${ANS} ${TIME}

    cd $PWD
    printf "...Done\n"

    return
}

#-------------------------------------------------------------------------------
# read the results from the output and put in the proper output directory
#-------------------------------------------------------------------------------
get_porflow(){
    local OUTDIR=$1   #Problems_Output_Platform/.../
    local FILEIN=$2   #OB-DEPTH.inp
    local FILEOUT=$3  #OB-DEPTH.txt
    local PROG=$4     #Perl Program
    local VAL1=$5     #values to loop over in perl program
    local VAL2=$6     #values to loop over in perl program
    local VAL3=$7     #values to loop over in perl program
```

```
    local ANS=$8
    local TIME=$9

    if [ "$DOPORFLOW" = 'noporflow' ] && [ ! -f ${FILEOUT} ]; then
        printf "\t\tUsing previous PORFLOW results...Done\n"
    else
        printf "\t\tGetting PORFLOW results..."

        local PWD=`pwd`

        for VER in ${VERS[@]}; do
            cd $OUTDIR/$VER
            printf "\n---$VER---\n";
#           PROG="/usr/bin/perl -d:DProf ${PROG}"
#           echo ${PROG} ${FILEIN} ${FILEOUT} ${VAL1} ${VAL2} ${VAL3} ${ANS} ${TIME}
#           echo $OUTDIR/$VER
            ${PROG} ${FILEIN} ${FILEOUT} ${VAL1} ${VAL2} ${VAL3} ${ANS} ${TIME}
            cd $PWD
        done

        printf "...Done\n"
    fi

    return
}


#------------------------------------------------------------------------
# Compare the different versions of PORFLOW
#------------------------------------------------------------------------
do_compare_ver(){
    local OUTDIR=$1
    local FILEOUT=$2
    local DOANAL=$3

    if [ "${DOANAL}" != "" ]; then
        do_compare_ver_noanal ${OUTDIR} ${FILEOUT}
        return
    fi

    #copy version array and append Analytical to it
    local VERSA=("${VERS[@]}")
    VERSA[2]="Analytical"

    local A=${OUTDIR}/${VERSA[2]}/${FILEOUT}
    local V1=${OUTDIR}/${VERSA[0]}/${FILEOUT}
    local V2=${OUTDIR}/${VERSA[1]}/${FILEOUT}

    local PROG="${BENCHMARK_DIR}/Perls/rmsd_compare.pl"

    local PWD=`pwd`
    cd ${BENCHMARK_DIR}/${COMPOUT}

    local RMS_AV1=`$PROG ${COMPOUT} ${FILEOUT} ${A} ${V1}`
    local RMS_AV2=`$PROG ${COMPOUT} ${FILEOUT} ${A} ${V2}`
    local RMS_V1V2=`$PROG ${COMPOUT} ${FILEOUT} ${V1} ${V2}`

    #make a table of the results
    #x-axis Ana V1 V2
    local TABLE="${OUTDIR}/${FILEOUT}"
#   paste -d " " ${A} ${V1} ${V2} | cut -d " " -f 1,2,4,6 > ${TABLE}  #I added a -d " " here so maybe csvreader
    won't add multiple lines
    paste ${A} ${V1} ${V2} | cut -f 1,2,4,6 > ${TABLE}

#   read -p "$*"


    #make a pretty picture (plot via gnuplot and convert from SVG to PNG using ImageMagick)
    if [ `wc -l ${TABLE} | cut -f1 -d " "` -gt 2 ]; then #have more than 1 line, so plot it
        local SVG="${OUTDIR}/${FILEOUT/.txt/.svg}"
        local TEX="${OUTDIR}/${FILEOUT/.txt/.tex}"
        local EPS="${OUTDIR}/${FILEOUT/.txt/.eps}"
#       local PDF="${OUTDIR}/${FILEOUT/.txt/.pdf}"
        local RMS_INFO="${VERSA[2]} vs ${VERSA[0]}: ${RMS_AV1} RMSD\n${VERSA[2]} vs ${VERSA[1]}: ${RMS_AV2} RMSD\
            n${VERSA[0]} vs ${VERSA[1]}: ${RMS_V1V2} RMSD"
#       local GP_CMD="gnuplot -e \"set terminal svg; set output \\\"${SVG}\\\"; set title \\\"${FILEOUT}\n\n\n
    \\\"; set label 1 \\\"${RMS_INFO}\\\" at screen 0.98,0.9 right; set key on; plot \\\"${A}\\\" with line title
    \\\"Analytical\\\", \\\"${V1}\\\" linetype 2 title \\\"${VERSA[0]}\\\", \\\"${V2}\\\" linetype 3 title \\\"${
    VERSA[1]}\\\"; set terminal postscript eps size 6, 3.5 color font 'Helvetica,20' linewidth 2; set output \\\"$
    {EPS}\\\";replot  \" "

        local GP_CMD="gnuplot -e \"set terminal postscript eps size 6, 3.5 color font 'Helvetica,20' linewidth 2;
            set output \\\"${EPS}\\\"; set title \\\"${FILEOUT}\n\n\n\\\"; set label 1 \\\"${RMS_INFO}\\\" at
            screen 0.98,0.9 right; set key on; plot \\\"${A}\\\" with line title \\\"Analytical\\\", \\\"${V1}\\\"
             linetype 2 title \\\"${VERSA[0]}\\\", \\\"${V2}\\\" linetype 3 title \\\"${VERSA[1]}\\\" \" "

        if [ ${PROB} = '7.1' ]; then #PROB defined in test case (below)
```

```
        GP_CMD="gnuplot -e \"set terminal postscript eps size 6, 3.5 color font 'Helvetica,20' linewidth 2; 
            set output \\\"${EPS}\\\"; set title \\\"${FILEOUT}\n\n\n\\\"; set label 1 \\\"${RMS_INFO}\\\" at 
            screen 0.98,0.9 right; set key on; set logscale x; set logscale y; plot \\\"${A}\\\" with line 
            title \\\"Analytical\\\", \\\"${V1}\\\" linetype 2 title \\\"${VERSA[0]}\\\", \\\"${V2}\\\" 
            linetype 3 title \\\"${VERSA[1]}\\\" \" "
        fi

#       echo ${GP_CMD}
        eval ${GP_CMD}

        local PNG="${OUTDIR}/${FILEOUT/.txt/.png}"
#       local SVG_TO_PNG="convert ${SVG} ${PNG}"
#       eval ${SVG_TO_PNG}

        local EPS_TO_PDF="epstopdf ${EPS}"
        eval ${EPS_TO_PDF}

    #remove this when done
        rm -f ${SVG}
        rm -f ${PNG}

    else
        printf "not making graph, there is only 1 point in ${TABLE}\n";
    fi


    cd ${PWD}

    local LINE="${FILEOUT}\t${RMS_AV1}\t${RMS_AV2}\t${RMS_V1V2}\n"
    printf ${LINE}

    #$SUMMARY defined in compare_bench.sh
    printf ${LINE} >> $SUMMARY

    return
}

#-----------------------------------------------------------------------------
# Compare the different versions of PORFLOW
#-----------------------------------------------------------------------------
do_compare_ver_noanal(){
    local OUTDIR=$1
    local FILEOUT=$2

    #copy version array and append Analytical to it
    #local VERSA=("${VERS[@]}")

    local V1=${OUTDIR}/${VERS[0]}/${FILEOUT}
    local V2=${OUTDIR}/${VERS[1]}/${FILEOUT}

    local PROG="${BENCHMARK_DIR}/Perls/rmsd_compare.pl"

    local PWD=`pwd`
    cd ${BENCHMARK_DIR}/${COMPOUT}

    #local RMS_AV1=`$PROG ${COMPOUT} ${FILEOUT} ${A} ${V1}`
    #local RMS_AV2=`$PROG ${COMPOUT} ${FILEOUT} ${A} ${V2}`
    local RMS_V1V2=`$PROG ${COMPOUT} ${FILEOUT} ${V1} ${V2}`

    #make a table of the results
    #x-axis V1 V2
    local TABLE="${OUTDIR}/${FILEOUT}"
    paste ${V1} ${V2} | cut -f1,2,4 > ${TABLE}

    #make a pretty picture (plot via gnuplot and convert from SVG to PNG using ImageMagick)
    if [ `wc -l ${TABLE} | cut -f1 -d " "` -gt 2 ]; then #have more than 1 line, so plot it
        local SVG="${OUTDIR}/${FILEOUT/.txt/.svg}"
        local TEX="${OUTDIR}/${FILEOUT/.txt/.tex}"
        local EPS="${OUTDIR}/${FILEOUT/.txt/.eps}"
#       local PDF="${OUTDIR}/${FILEOUT/.txt/.pdf}"
        local RMS_INFO="${VERS[0]} vs ${VERS[1]}: ${RMS_V1V2} RMSD"


        #maybe ought to come up with a way to make the range a little prettier

        local GP_CMD="gnuplot -e \"set terminal postscript eps size 6, 3.5 color font 'Helvetica,20' linewidth 2; 
            set output \\\"${EPS}\\\"; set title \\\"${FILEOUT}\n\n\n\\\"; set label 1 \\\"${RMS_INFO}\\\" at 
            screen 0.98,0.9 right; set key on; plot \\\"${V1}\\\" linetype 2 title \\\"${VERS[0]}\\\", \\\"${V2
            }\\\" linetype 3 title \\\"${VERS[1]}\\\" \" "


#       echo ${GP_CMD}
        eval ${GP_CMD}

        local PNG="${OUTDIR}/${FILEOUT/.txt/.png}"
#       local SVG_TO_PNG="convert ${SVG} ${PNG}"
#       eval ${SVG_TO_PNG}
```

```
        local EPS_TO_PDF="epstopdf ${EPS}"
        eval ${EPS_TO_PDF}

    #remove this when done
        rm -f ${SVG}
        rm -f ${PNG}

    else
        printf "not making graph, there is only 1 point in ${TABLE}\n";
    fi


    cd ${PWD}

    local LINE="${FILEOUT}\t${RMS_V1V2}\n"
    printf ${LINE}

    #$SUMMARY defined in compare_bench.sh
    printf ${LINE} >> $SUMMARY

    return
}




#-----------------------------------------------------------------------
# Compare the err.txt file on different versions of PORFLOW
# if err.txt is NOT empty then FAIL
#-----------------------------------------------------------------------
do_compare_ver_err(){
    local OUTDIR=$1
    local FILEOUT=$2
    #copy of version array
    local VERSA=("${VERS[@]}")

    local V1=${OUTDIR}/${VERSA[0]}/${FILEOUT}
    local V2=${OUTDIR}/${VERSA[1]}/${FILEOUT}

    local V1STATUS="PASS"
    if [ -s ${V1} ]; then  #-s means file exists and has a size greater than 0
        V1STATUS="FAIL";
    fi
    local V2STATUS="PASS"
    if [ -s ${V2} ]; then
        V2STATUS="FAIL";
    fi

    local V1V2STATUS="FAIL"
    if [ ${V1STATUS} == ${V2STATUS} ]; then
        V1V2STATUS="PASS"
    fi

    local PWD=`pwd`
    cd ${BENCHMARK_DIR}/${COMPOUT}

    #make a table of the results
    #v1 v2
    #fail pass
    local TABLE="${OUTDIR}/${PROB}.txt"
    printf "${V1STATUS}\t${V2STATUS}" > ${TABLE}

    cd ${PWD}

    local LINE="${PROB}.txt\t${V1STATUS}\t${V2STATUS}\t${V1V2STATUS}\n"
    printf ${LINE}

    #$SUMMARY defined in compare_bench.sh
    printf ${LINE} >> $SUMMARY

    return
}



#-----------------------------------------------------------------------
# Compare two different files on the same version of PORFLOW
#-----------------------------------------------------------------------
do_compare_files(){
    local OUTDIR=$1
    local FILEOUT=$2     #results file (to go into OUTDIR)
    local FILEOUT1=$3    #file1
    local FILEOUT2=$4    #file2
```

```
    local PROG="${BENCHMARK_DIR}/Perls/rmsd_compare.pl"

    #copy version array
    local VERSA=("${VERS[@]}")

    local V1F1=${OUTDIR}/${VERSA[0]}/${FILEOUT1}
    local V1F2=${OUTDIR}/${VERSA[0]}/${FILEOUT2}


    local V2F1=${OUTDIR}/${VERSA[1]}/${FILEOUT1}
    local V2F2=${OUTDIR}/${VERSA[1]}/${FILEOUT2}

    local PWD=`pwd`
    cd ${BENCHMARK_DIR}/${COMPOUT}

    local RMS_V1F1F2=`$PROG ${COMPOUT} ${FILEOUT} ${V1F1} ${V1F2}`
    local RMS_V2F1F2=`$PROG ${COMPOUT} ${FILEOUT} ${V2F1} ${V2F2}`

    local LINE="\t\t\t\t\t${VERSA[0]}\t\t${VERSA[1]}\n"
    printf ${LINE}

    LINE="${FILEOUT1}_vs_${FILEOUT2}\t${RMS_V1F1F2}\t${RMS_V2F1F2}\n"
    printf ${LINE}

    local TABLE="${OUTDIR}/${FILEOUT}"
    printf ${LINE} > $TABLE

    #summary defined in compare_bench.sh
    printf ${LINE} >> $SUMMARY
    cd ${PWD}

    return
}


#-------------------------------------------------------------------------
# Compare two different platforms on the same version of PORFLOW
#-------------------------------------------------------------------------
do_compare_plat(){
    local PROB=$1

    local MSG="\n\n\n------------------------------------------------------\n\n"
    MSG="$MSG do_compare_plat NOT written yet \n\n"
    MSG="$MSG ------------------------------------------------------\n\n\n"
    printf ${MSG}

    return
}


#-----------------------------------------------------------------------------
# make output dir
#-----------------------------------------------------------------------------
make_outdir(){
    local OUTDIR=$1
    for VER in ${VERS[@]}; do
        mkdir -p $OUTDIR/$VER        #porflow_ver out dir (make parents as needed)
    done
    mkdir -p $OUTDIR/Analytical

    return
}

#=============================================================================
#     TEST PROBLEMS
#=============================================================================

a31problem1(){
    local TOP_PROB='3_Test'
    local PROB='3.1'

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    printf "\tTest *.OUT files to see if text\n"
    printf "\t\tProblem 1\n"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        local FILES="ofile1.inp ofile2.inp ofile3.inp"
        for FILE in ${FILES[@]}; do
            #run porflow
            run_file ${OUTDIR} ${FILE}
```

```
            #save filetype of OUT file to 3.1.txt (data has binary, text is ASCII)
            local PWD=`pwd`
            for VER in ${VERS[@]}; do
                cd $OUTDIR/$VER


                local OFILE=${FILE}
                local BFILE=`basename ${OFILE} .inp`
                OFILE="${BFILE}.OUT"

                file -F$'\t' ${OFILE} > ${BFILE}.file    #export the file type (data or ASCII using the file
                    command)
                #make anal too
                echo "${FILE}"$'\t'"ASCII English text" > ../Analytical/${BFILE}.file

                cd ${PWD}
            done
        done
        #consolidate ver output into 1 file
        local PWD=`pwd`
        for VER in ${VERS[@]}; do
            cd $OUTDIR/$VER
            cat *.file > ${PROB}.txt
            rm *.file
            cd ${PWD}
        done
        #consolidate anal output into 1 file
        cd $OUTDIR/Analytical
        cat *.file > ${PROB}.txt
        rm *.file
        cd ${PWD}

    elif [ $PROGTYPE = 'comp_ver' ]; then         #compare the porflow results between versions (same platform)
        local PWD=`pwd`
        cd ${OUTDIR}

        local VERSTR="Analytical/${PROB}.txt "
        for VER in ${VERS[@]}; do
            VERSTR="${VERSTR} ${VER}/${PROB}.txt "
        done

        paste ${VERSTR} | cut -f1,2,4,6 > ${PROB}.txt

        cd ${PWD}

    elif [ $PROGTYPE = 'comp_plat' ]; then        #compare the porflow results between platforms (same version)
        do_compare_plat $PROB
    fi

    return
}

#    printf "\tMinimal test case to check PORFLOW on each system\n"
a32problem1(){
    local TOP_PROB='3_Test'
    local PROB='3.2'

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    printf "\tMinimal test case to check PORFLOW on each system\n"
    printf "\t\tProblem 1\n"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        local FILES="ofile1.inp ofile2.inp ofile3.inp"
        for FILE in ${FILES[@]}; do
            #run porflow
            run_file ${OUTDIR} ${FILE}

            #save filetype of OUT file to 3.1.txt (data has binary, text is ASCII)
            local PWD=`pwd`
            for VER in ${VERS[@]}; do
                cd $OUTDIR/$VER


                local OFILE=${FILE}
                local BFILE=`basename ${OFILE} .inp`
                OFILE="${BFILE}.OUT"

                file -F$'\t' ${OFILE} > ${BFILE}.file
                #make anal too
```

```
                echo "${FILE}"$'\t'"ASCII␣English␣text" > ../Analytical/${BFILE}.file

                cd ${PWD}
            done
        done
        #consolidate ver output into 1 file
        local PWD=`pwd`
        for VER in ${VERS[@]}; do
            cd $OUTDIR/$VER
            cat *.file > ${PROB}.txt
            rm *.file
            cd ${PWD}
        done
        #consolidate anal output into 1 file
        cd $OUTDIR/Analytical
        cat *.file > ${PROB}.txt
        rm *.file
        cd ${PWD}

    elif [ $PROGTYPE = 'comp_ver' ]; then          #compare the porflow results between versions (same platform)
        local PWD=`pwd`
        cd ${OUTDIR}

        local VERSTR="Analytical/${PROB}.txt␣"
        for VER in ${VERS[@]}; do
            VERSTR="${VERSTR}␣${VER}/${PROB}.txt␣"
        done

        paste ${VERSTR} | cut -f1,2,4,6 > ${PROB}.txt

        cd ${PWD}

    elif [ $PROGTYPE = 'comp_plat' ]; then         #compare the porflow results between platforms (same version)
        do_compare_plat $PROB
    fi

    return
}


#------------------------------------------------------------------------
a41problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.1'
    local OB='4.1.1'
    local PROB="${PR}/${OB}"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    printf "\tSteady-state,1-D␣Flow␣in␣a␣Confined␣Aquifer␣(4.1)\n"
    printf "\t\tProblem␣1\n"

    local DEPTH_TO_RUN="25␣50␣100"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        for DEPTH in ${DEPTH_TO_RUN[@]}; do
            #run porflow
            local FILEIN="${OB}-${DEPTH}.inp"
            run_file ${OUTDIR} ${FILEIN}

            #calculate analytical solution (or copy analytical "results")
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local X_FT="0,20,40,60,80,100,120,140,160,180,199"
            local Y_FT="20"
            local Z_FT="1"
            local ANS="X-0~P-2"
            local TIME="1e30"

            local FILEOUT="${OB}-${DEPTH}.txt"
            run_anal ${OUTDIR} "sub41" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
            FILEIN="${OB}-${DEPTH}.sav"
            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
        done

    elif [ $PROGTYPE = 'comp_ver' ]; then          #compare the porflow results between versions (same platform)
        for DEPTH in ${DEPTH_TO_RUN[@]}; do
            local FILEOUT="${OB}-${DEPTH}.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}
```

```
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then          #compare the porflow results between platforms (same version)
        do_compare_plat $PROB
    fi

    return
}


#------------------------------------------------------------------------
a41problem2(){
    local TOP_PROB='4_Flow'
    local PR='4.1'
    local OB='4.1.2'
    local PROB="${PR}/${OB}"

    printf "\tSteady-state,1-D␣Flow␣in␣a␣Confined␣Aquifer␣(4.1)\n"
    printf "\t\tProblem␣2\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local H0_TO_RUN="140␣110␣100␣90␣75␣60␣50␣45␣41"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        for H0 in ${H0_TO_RUN[@]}; do
            #run porflow
            local FILEIN="${OB}-${H0}.inp"
            run_file ${OUTDIR} ${FILEIN}

            #calculate analytical solution (or copy analytical "results")
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local X_FT="200"
            local Y_FT="20"
            local Z_FT="1"
            local TIME="1e30"

            FILEIN="${OB}-${H0}.sav"
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"

            local ANS_TO_RUN="X-0~P-1␣X-0~U-4"
            for ANS in ${ANS_TO_RUN[@]}; do
                local FILEOUT="${OB}-${H0}.txt"
                if [[ $ANS == *"P"* ]]; then
                    FILEOUT="${OB}-${H0}-P.txt"
                else
                    FILEOUT="${OB}-${H0}-U.txt"
                fi
                run_anal ${OUTDIR} "sub41" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME
                    }
                get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
            done
        done
    elif [ $PROGTYPE = 'comp_ver' ]; then           #compare the porflow results between versions (same platform)
        for H0 in ${H0_TO_RUN[@]}; do
            local FILEOUT="${OB}-${H0}-P.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}
            FILEOUT="${OB}-${H0}-U.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}
        done

        #make composite table from results
        local PWD=`pwd`
        cd ${OUTDIR}
        grep "" *-U.txt | sed -e s/4.1.2-// | sed -e s/-U.txt:200// | sort -rg > 4.1.2-U.txt
        grep "" *-P.txt | sed -e s/4.1.2-// | sed -e s/-P.txt:200// | sort -rg > 4.1.2-P.txt
        cd ${PWD}

    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------------------
a42problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.2'
    local OB='4.2.1'
    local PROB="${PR}/${OB}"

    printf "\tSteady-state,1-D␣Flow␣in␣an␣Unconfined␣Aquifer␣(4.2)\n"
    printf "\t\tProblem␣1\n"
```

```
    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local FILEOUT="${OB}.txt"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${OB}.inp"
        run_file ${OUTDIR} ${FILEIN}

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
        local X_FT="0,10,20,30,40,50,60,70,80,90,100"
        local Y_FT="1"
        local Z_FT="1"
        local ANS="X-0~H-3"
        local TIME="1e30"

        FILEIN="${OB}.sav"
        run_anal ${OUTDIR} "sub42" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

        #get the porflow results
        local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
        get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
    elif [ $PROGTYPE = 'comp_ver' ]; then
        do_compare_ver ${OUTDIR} ${FILEOUT}
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#--------------------------------------------------------------------------
a42problem2(){
    local TOP_PROB='4_Flow'
    local PR='4.2'
    local OB='4.2.2'
    local PROB="${PR}/${OB}"

    printf "\tSteady-state,1-D␣Flow␣in␣an␣Unconfined␣Aquifer␣(4.2)\n"
    printf "\t\tProblem␣2\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local FILEOUT="${OB}.txt"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${OB}.inp"
        run_file ${OUTDIR} ${FILEIN}

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
        local X_FT="min0max1640,dt40"
        local Y_FT="0"
        local Z_FT="1"
        local ANS="X-0~H-3"
        local TIME="1e30"

        run_anal ${OUTDIR} "sub42" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

        #get the porflow results
        local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
        FILEIN="${OB}.sav"
        get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

    elif [ $PROGTYPE = 'comp_ver' ]; then
        do_compare_ver ${OUTDIR} ${FILEOUT}
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#--------------------------------------------------------------------------
a43problem1(){
    local TOP_PROB='4_Flow'
```

```
    local PR='4.3'
    local PROB="${PR}"

    printf "\tSteady-state,␣2-D␣Flow␣through␣a␣heterogeneous␣aquifer␣system(4.3)\n"
    printf "\t\tProblem␣1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local DEPTH_TO_RUN="160␣50"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${PR}.inp"
        run_file ${OUTDIR} ${FILEIN}

        local DEPTH_TO_RUN="160␣50"
        for DEPTH in ${DEPTH_TO_RUN[@]}; do

           #calculate analytical solution (or copy analytical "results")
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local X_FT="min0max1000,dt20"
            local Y_FT=${DEPTH}
            local Z_FT="1"
            local ANS="X-0~H-3"
            local TIME="1e30"

            local FILEOUT="${PR}-${DEPTH}.txt"
            run_anal ${OUTDIR} "sub431" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
            FILEIN="${PR}.sav"
            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
        done
    elif [ $PROGTYPE = 'comp_ver' ]; then
        for DEPTH in ${DEPTH_TO_RUN[@]}; do
            local FILEOUT="${PR}-${DEPTH}.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------------------
a44problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.4'
    local OB='4.4.1'
    local PROB="${PR}/${OB}"

    printf "\tUnconfined␣Aquifer␣Subject␣to␣Combined␣Recharge/Drain␣BC(4.4.1)\n"
    printf "\t\tProblem␣1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local FILEOUT="${OB}.txt"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${OB}.inp"
        run_file $OUTDIR ${FILEIN}

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
        local X_FT="min0max1000,dt50"
        local Y_FT="min5max2.5,dt-0.125"
        local Z_FT="1"
        local ANS="X-0~H-3"
        local TIME="1e30"

        run_anal ${OUTDIR} "sub441" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

        #get the porflow results
        local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
        FILEIN="${OB}.sav"
```

```
        get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

    elif [ $PROGTYPE = 'comp_ver' ]; then
        do_compare_ver ${OUTDIR} ${FILEOUT}

    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------------------
a44problem2(){
    local TOP_PROB='4_Flow'
    local PR='4.4'
    local OB='4.4.2'
    local PROB="${PR}/${OB}"

    printf "\tUnconfined␣Aquifer␣Subject␣to␣Combined␣Recharge/Drain␣BC(4.4.2)\n"
    printf "\t\tProblem␣2\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local FILEOUT="${OB}.txt"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${OB}.inp"
        run_file $OUTDIR ${FILEIN}

        #calculate analytical solution (or copy analytical "results")
        #in 4.4.2 uses the same code as the 4.4.1
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
        local X_FT="min0max1000,dt50"
        local Y_FT="min5max2.5,dt-0.125" #        local Y_FT="0"
        local Z_FT="1"
        local ANS="X-0~H-3"
        local TIME="1e30"

        run_anal ${OUTDIR} "sub441" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

        #get the porflow results
        local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
        FILEIN="${OB}.sav"
        get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

    elif [ $PROGTYPE = 'comp_ver' ]; then
        do_compare_ver ${OUTDIR} ${FILEOUT}
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------------------
a44problem3(){
    a44problem3aux "LH_RH"
    a44problem3aux "LH_RL"
    a44problem3aux "LL_RH"
    a44problem3aux "LL_RL"
}

a44problem3aux(){
    local TOP_PROB='4_Flow'
    local PR='4.4'
    local OB='4.4.3'
    local LEM=$1
    local PROBLEM="${PR}/${OB}/${LEM}"

    printf "\tUnconfined␣Aquifer␣Subject␣to␣Combined␣Recharge/Drain␣BC(4.4.3)\n"
    printf "\t\tProblem␣3␣${LEM}\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROBLEM
    local FILEOUT="${OB}-${LEM}.txt"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROBLEM
        copy_and_convert_files $INDIR $OUTDIR
```

```
        #run porflow
        local FILEIN="RUN.dat"
        run_file $OUTDIR ${FILEIN}

        #get results from porflow
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
        local X_FT="min7.62000000E+002max2.97180000E+004,dt7.62000000E+002"
        local Y_FT="2.97180000E+003" #        local Y_FT="0"
        local Z_FT="1"
        local ANS="X-0~P-10"
        local TIME="0e00"

#       no analytical - doing code to code comparison

        #get the porflow results
        local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
        FILEIN="MAIN.sav"
        get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

    elif [ $PROGTYPE = 'comp_ver' ]; then
            do_compare_ver ${OUTDIR} ${FILEOUT} 'noanal'
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------
a45problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.5'
    local PROB="${PR}"

    printf "\tTransient, 1-D Flow to a Well in a Confined Aquifer(4.5)\n"
    printf "\t\tProblem 1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local DT_TO_RUN="120 3600"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${PR}.inp"
        run_file $OUTDIR ${FILEIN}

        for DT in ${DT_TO_RUN[@]}; do
            local FILEOUT="${PR}-${DT}.txt"

            #calculate analytical solution (or copy analytical "results")
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"

            local ANS="TIME/STEP-3e~VALUE-4e"

            local NUM_I=0 #number of steps to take (I+DT) = TIME
            local DI=1
            local ID=1
            if [ ${DT} == 120 ]; then
                NUM_I=30
                ID="1|2"   #have to specify both b/c Porflow v6.30.2 messes up HISTORY output
            else
                NUM_I=24
                ID=3
            fi

            run_anal ${OUTDIR} "sub451" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${NUM_I} ${DT} ${ID} ${ANS}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/his-porflow.pl"
            local FDT=`printf %04d $DT` #format - pad 0
            FILEIN="${PR}-${FDT}.his"
            local COLS="${ID}~${ANS}"

            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${NUM_I} ${DI} ${DT} ${COLS}
        done

    elif [ $PROGTYPE = 'comp_ver' ]; then
        for DT in ${DT_TO_RUN[@]}; do
            local FILEOUT="${PR}-${DT}.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
```

```
    fi
    return
}

#-------------------------------------------------------
a46problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.6'
    local PROB="${PR}"

    printf "\tTransient,␣2-D␣Flow␣to␣a␣Well␣in␣an␣Anisotropic␣Confined␣Aquifer(4.6)\n"
    printf "\t\tProblem␣1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local CASES_TO_RUN="X55-Y00␣X00-Y55␣X55-Y55"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${PR}.inp"
        run_file $OUTDIR ${FILEIN}

        for CASE in ${CASES_TO_RUN[@]}; do
            #calculate analytical solution (or copy analytical "results")
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"

            local ANS="TIME:STEP-4e~DD-4e"
            local ID=1

            local NUM_I=1000
            local DI=1
            local DT=86.4

            local COLS="${ID}~${ANS}"

            FILEIN="${PR}-${CASE}.his"
            local FILEOUT="${PR}-${CASE}.txt"
            run_anal ${OUTDIR} "sub461" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${NUM_I} ${DT} ${ID} ${ANS}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/his-porflow.pl"
            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${NUM_I} ${DI} ${DT} ${COLS}
        done
    elif [ $PROGTYPE = 'comp_ver' ]; then
        for CASE in ${CASES_TO_RUN[@]}; do
            local FILEOUT="${PR}-${CASE}.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#-------------------------------------------------------
a47problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.7'
    local PROB="${PR}"

    printf "\tTransient,␣1-D␣Flow␣to␣a␣Well␣in␣a␣Leaky␣Confined␣Aquifer(4.7)\n"
    printf "\t\tProblem␣1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local FILEOUT="${PR}.txt"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${PR}.inp"
        run_file $OUTDIR $FILEIN

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"

        local ANS="TIME/STEP-0~VALUE-4e"
        local ID=1
```

```
        local COLS="${ID}~${ANS}"

        local NUM_I=250
        local DI=1
        local DT=1

        run_anal ${OUTDIR} "sub471" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${NUM_I} ${DT} ${ID} ${ANS}

        #get the porflow results
        local PROG="${BENCHMARK_DIR}/Perls/his-porflow.pl"
        FILEIN="${PR}.his"
        get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${NUM_I} ${DI} ${DT} ${COLS}


    elif [ $PROGTYPE = 'comp_ver' ]; then
        do_compare_ver ${OUTDIR} ${FILEOUT}
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------
a48problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.8'
    local PROB="${PR}"

    printf "\tTransient␣Free-Surface␣Boussinesq␣Flow␣-␣Recharge(4.8)\n"
    printf "\t\tProblem␣1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local TIMES_TO_RUN="9␣36␣81␣144␣225␣324"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${PR}.inp"
        run_file $OUTDIR ${FILEIN}

        #calculate analytical solution (or copy analytical "results")
        for TIME in ${TIMES_TO_RUN[@]}; do

            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local FILEOUT="${PR}-${TIME}.txt"
            local X_FT="0.00000000E+000,1.85999106E-001,5.76597229E-001,1.00625516E+000,1.47887889E+000,1.99876499
                E+000,2.57063971E+000,3.19970189E+000,3.89167029E+000,4.65283553E+000,5.49011730E+000,6.41112724E
                +000,7.42423817E+000,8.53866020E+000,9.76452444E+000,1.11129751E+001,1.25962708E+001,1.42278961E
                +001,1.60226839E+001,1.79969505E+001,2.01686438E+001,2.25575064E+001,2.51852552E+001,2.80757790E
                +001,3.12553551E+001,3.47528888E+001,3.86001759E+001,4.28321917E+001,4.74874091E+001,5.26081482E
                +001,5.82409613E+001,6.44370556E+001,7.12527594E+001,7.87500335E+001,8.69970351E+001,9.60687368E
                +001,1.06047609E+002,1.17024368E+002,1.29098803E+002,1.42380681E+002,1.56990748E+002,1.73061821E
                +002,1.90740001E+002,2.00000000E+002"
            #local X_FT="min0max200,dt1"
            local Y_FT="11"
            local Z_FT="1"
            local ANS="X-1~H-3"
            run_anal ${OUTDIR} "sub481" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
            FILEIN="${PR}.sav"
            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
        done

    elif [ $PROGTYPE = 'comp_ver' ]; then
        for TIME in ${TIMES_TO_RUN[@]}; do
            local FILEOUT="${PR}-${TIME}.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------
a49problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.9'
    local PROB="${PR}"
```

```
    printf "\tTransient␣Free-Surface␣Boussinesq␣Flow␣-␣Seepage(4.9)\n"
    printf "\t\tProblem␣1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local TIMES_TO_RUN="9␣36␣81␣144␣225␣324"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="${PR}.inp"
        run_file $OUTDIR ${FILEIN}

        #calculate analytical solution (or copy analytical "results")
        for TIME in ${TIMES_TO_RUN[@]}; do

            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local FILEOUT="${PR}-${TIME}.txt"
            local X_FT="0.00000000E+000,1.85999106E-001,5.76597229E-001,1.00625516E+000,1.47887889E+000,1.99876499
                E+000,2.57063971E+000,3.19970189E+000,3.89167029E+000,4.65283553E+000,5.49011730E+000,6.41112724E
                +000,7.42423817E+000,8.53866020E+000,9.76452444E+000,1.11129751E+001,1.25962708E+001,1.42278961E
                +001,1.60226839E+001,1.79969505E+001,2.01686438E+001,2.25575064E+001,2.51852552E+001,2.80757790E
                +001,3.12553551E+001,3.47528888E+001,3.86001759E+001,4.28321917E+001,4.74874091E+001,5.26081482E
                +001,5.82409613E+001,6.44370556E+001,7.12527594E+001,7.87500335E+001,8.69970351E+001,9.60687368E
                +001,1.06047609E+002,1.17024368E+002,1.29098803E+002,1.42380681E+002,1.56990748E+002,1.73061821E
                +002,1.90740001E+002,2.00000000E+002"
            local Y_FT="10"
            local Z_FT="1"
            local ANS="X-1~H-3"
            run_anal ${OUTDIR} "sub491" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
            FILEIN="${PR}.sav"
            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
        done
    elif [ $PROGTYPE = 'comp_ver' ]; then
        for TIME in ${TIMES_TO_RUN[@]}; do
            local FILEOUT="${PR}-${TIME}.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------
a410problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.10'
    local PROB="${PR}"

    printf "\tUnsaturated␣Vertical␣Soil␣Column(4.10)\n"
    printf "\t\tProblem␣1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local VARS="wrc␣csc"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        for VAR in ${VARS[@]}; do
            #run porflow
            local FILEIN="${PR}-${VAR}.inp"
            run_file $OUTDIR $FILEIN

            #calculate analytical solution (or copy analytical "results")
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"

            local X_FT="min0max50,dt0.2"
            local Y_FT="0.5"
            local Z_FT="1"

            local TIME="1e30"

            local ANSS="X-1~S-3" #VAR=wrc
            local FILEOUT="${PR}-${VAR}.txt"
```

```
            if [ $VAR = 'csc' ]; then
                ANSS="X-1~S-3 X-1~U-3"
            fi

            for ANS in ${ANSS[@]}; do
                if [ $VAR = 'csc' ]; then
                    if [[ $ANS == *"U"* ]]; then
                        FILEOUT="${PR}-${VAR}-U.txt"
                    fi
                fi

                run_anal ${OUTDIR} "sub4101" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${
                    TIME}

                #get the porflow results
                local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
                FILEIN="${PR}-${VAR}.sav"
                get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
            done

        done

    elif [ $PROGTYPE = 'comp_ver' ]; then
        for VAR in ${VARS[@]}; do
            local FILEOUT="${PR}-${VAR}.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}  #do the S compare

            if [ $VAR = 'csc' ]; then            #do the U compare
                FILEOUT="${PR}-${VAR}-U.txt"
                do_compare_ver ${OUTDIR} ${FILEOUT}
            fi
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#---------------------------------------------------------------
a411problemx(){
    local TOP_PROB='4_Flow'
    local PR='4.11'
    local OB=$1
    local LEM=$2
    local DIM=$3
    local ANS=""
    local PROB="${PR}/${OB}/${LEM}"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local FILEOUT="${LEM}.txt"
    local AANS=""
    if [ $DIM = 2 ]; then
        AANS="${DIM}U-3 ${DIM}V-3"
    else
        AANS="${DIM}U-3 ${DIM}V-3 ${DIM}W-3"
    fi

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="RUN.dat" #maybe should edit folder so this reflects name...
        run_file $OUTDIR $FILEIN

        #read porflows
        local X_FT="all"
        local Y_FT="all"
        local Z_FT="all"

        local TIME="1e30"

        #there is no analytical solution for this test - we are comparing VELO FLUX COOR to calculated and
            corrected FC

        #get the porflow results
        local PROG="${BENCHMARK_DIR}/Perls/fc-velo-porflow.pl"

        FILEIN="MAIN.sav"
        for ANS in ${AANS[@]}; do
            local C=$(echo ${ANS} | cut -c 2-)  #get U-3
            local D=$(echo ${C} | cut -f1 -d-)  #get U
            FILEOUT="${LEM}-${D}.txt"           #4.11.1.1-U.txt
            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
```

```
        done

        FILEOUT="${LEM}-FC.txt"
        ANS="${DIM}FC-3"
        get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}


    elif [ $PROGTYPE = 'comp_ver' ]; then
        for ANS in ${AANS[@]}; do
            local C=$(echo ${ANS} | cut -c 2-)  #get U-3
            local D=$(echo ${C} | cut -f1 -d-)  #get U
            local FILEOUT1="${LEM}-${D}.txt"
            local FILEOUT2="${LEM}-${D}_FC.txt"

            FILEOUT="${LEM}-${D}_vs_${D}_FC.txt"

            do_compare_files ${OUTDIR} ${FILEOUT} ${FILEOUT1} ${FILEOUT2}

        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi

}
#-----------------------------------------------------------------------
a411problem1(){
    a411problem1p1
}
a411problem2(){
    a411problem2p1
}
a411problem3(){
    a411problem3p1
    a411problem3p2
    a411problem3p3
}
a411problem4(){
    a411problem4p1
    a411problem4p2
}
a411problem5(){
    a411problem5p1
    a411problem5p2
    a411problem5p3
    a411problem5p4
    a411problem5p5
    a411problem5p6
    a411problem5p7
    a411problem5p8
    a411problem5p9
}

#-----------------------------------------------------------------------
a411problem1p1(){
    local OB='4.11.1'
    local LEM='4.11.1.1'
    local DIM=2
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"

    printf "\tVelocity␣2D␣cartesian(4.11)\n"
    printf "\t\tProblem␣1\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}

a411problem2p1(){
    local OB='4.11.2'
    local LEM='4.11.2.1'
    local DIM=2
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity␣2D␣cylindrical(4.11)\n"
    printf "\t\tProblem␣2\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}

a411problem3p1(){
    local OB='4.11.3'
    local LEM='4.11.3.1'
```

```
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity pseudo-2D slope(4.11)\n"
    printf "\t\tProblem 3.1\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem3p2(){
    local OB='4.11.3'
    local LEM='4.11.3.2'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity pseudo-2D slope(4.11)\n"
    printf "\t\tProblem 3.2\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem3p3(){
    local OB='4.11.3'
    local LEM='4.11.3.3'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity pseudo-2D slope(4.11)\n"
    printf "\t\tProblem 3.3\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}

a411problem4p1(){
    local OB='4.11.4'
    local LEM='4.11.4.1'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity pseudo-2D flat(4.11)\n"
    printf "\t\tProblem 4.1\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem4p2(){
    local OB='4.11.4'
    local LEM='4.11.4.2'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity pseudo-2D flat(4.11)\n"
    printf "\t\tProblem 4.2\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}

a411problem5p1(){
    local OB='4.11.5'
    local LEM='4.11.5.1'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity 3D(4.11)\n"
    printf "\t\tProblem 5.1\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem5p2(){
    local OB='4.11.5'
    local LEM='4.11.5.2'
    local DIM=3
```

```
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity␣3D(4.11)\n"
    printf "\t\tProblem␣5.2\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem5p3(){
    local OB='4.11.5'
    local LEM='4.11.5.3'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity␣3D(4.11)\n"
    printf "\t\tProblem␣5.3\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem5p4(){
    local OB='4.11.5'
    local LEM='4.11.5.4'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity␣3D(4.11)\n"
    printf "\t\tProblem␣5.4\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem5p5(){
    local OB='4.11.5'
    local LEM='4.11.5.5'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity␣3D(4.11)\n"
    printf "\t\tProblem␣5.5\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem5p6(){
    local OB='4.11.5'
    local LEM='4.11.5.6'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity␣3D(4.11)\n"
    printf "\t\tProblem␣5.6\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem5p7(){
    local OB='4.11.5'
    local LEM='4.11.5.7'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity␣3D(4.11)\n"
    printf "\t\tProblem␣5.7\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem5p8(){
    local OB='4.11.5'
    local LEM='4.11.5.8'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
```

```
    local ANS="X-0~H-3"
    printf "\tVelocity 3D(4.11)\n"
    printf "\t\tProblem 5.8\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}
a411problem5p9(){
    local OB='4.11.5'
    local LEM='4.11.5.9'
    local DIM=3
    local X_FT="min0max30480,dt${DT}"
    local Y_FT="0"
    local Z_FT="1"
    local ANS="X-0~H-3"
    printf "\tVelocity 3D(4.11)\n"
    printf "\t\tProblem 5.9\n"

    a411problemx $OB $LEM $DIM $ANS
    return
}


#------------------------------------------------------------
a412problem1(){
    local TOP_PROB='4_Flow'
    local PR='4.12'
    local PROB="${PR}"

    printf "\tUndefined Corner Nodes (4.12)\n"
    printf "\t\tProblem 1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="RUN.dat"
        run_file $OUTDIR $FILEIN

    #check to see if file ran (err.txt is empty or 0kb in size)
    elif [ $PROGTYPE = 'comp_ver' ]; then
        local FILEOUT="err.txt"
        do_compare_ver_err ${OUTDIR} ${FILEOUT}  #do the err.txt compare
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}



#------------------------------------------------------------
a51problem1(){
    local TOP_PROB='5_Transport'
    local PR='5.1'

    printf "\t1-D saturated solute transport in a uniform flow field (5.1)\n"
    printf "\t\tProblem 1\n"

    local CASES="Basecase A B C D E F G H I J K L"
    for CASE in ${CASES[@]}; do
        printf "\t\tCase $CASE\n"

        local OB=$CASE
        local PROB="${PR}/${OB}"

        #benchmark_dir in porflow_info and output in run_bench or compare bench (maybe should be in porflow_info)
        local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

        local TIMES_TO_RUN="25 50"

        if [ $PROGTYPE = 'run' ]; then
            make_outdir $OUTDIR

            local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
            copy_and_convert_files $INDIR $OUTDIR

            #run porflow
            local INP_FILE="${PR}-${OB}.inp"
            if [[ $CASE = 'K' || $CASE = 'L' ]]; then
```

```
                for TIME in ${TIMES_TO_RUN[@]}; do
                    INP_FILE="${PR}-${OB}-${TIME}.inp"
                    run_file $OUTDIR $INP_FILE
                done
            else
                run_file $OUTDIR $INP_FILE
            fi

            #calculate analytical solution (or copy analytical "results") and get the porflow results
            for TIME in ${TIMES_TO_RUN[@]}; do

                local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
                local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
                local DT=10
                if [[ $CASE = 'D' ]]; then
                    DT=20
                elif [[ $CASE = 'E' ]]; then
                    DT=40
                elif [[ $CASE = 'F' ]]; then
                    DT=80
                fi

                local X_FT="min0max400,dt${DT}"
                local Y_FT="0"
                local Z_FT="1"
                local ANS="X-0~C-4"

                local FILEIN="${PR}-${OB}.sav"
                local FILEOUT="${PR}-${OB}-${TIME}.txt"
                if [[ $CASE = 'K' || $CASE = 'L' ]]; then
                    local ALGOS_TO_RUN="1 2 3 4"
                    for ALGO in ${ALGOS_TO_RUN[@]}; do
                        FILEIN="${PR}-${OB}${ALGO}-${TIME}.sav"
                        FILEOUT="${PR}-${OB}${ALGO}-${TIME}.txt"
                        #analytical solution
                        run_anal ${OUTDIR} "sub511" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${
                            ANS} ${TIME}

                        #get the porflow results
                        get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
                    done
                else
                    #analytical solution
                    run_anal ${OUTDIR} "sub511" ${FILEIN} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} $
                        {TIME}

                    #get the porflow results
                    get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
                fi
            done #TIMES_TO_RUN
        elif [ $PROGTYPE = 'comp_ver' ]; then
            for TIME in ${TIMES_TO_RUN[@]}; do
                local FILEOUT="${PR}-${OB}-${TIME}.txt"
                if [[ $CASE = 'K' || $CASE = 'L' ]]; then
                    local ALGOS_TO_RUN="1 2 3 4"
                    for ALGO in ${ALGOS_TO_RUN[@]}; do
                        FILEOUT="${PR}-${OB}${ALGO}-${TIME}.txt"
                        do_compare_ver ${OUTDIR} ${FILEOUT}
                    done
                else
                    do_compare_ver ${OUTDIR} ${FILEOUT}
                fi
            done
        elif [ $PROGTYPE = 'comp_plat' ]; then
            do_compare_plat $PROB
        fi
    done    #CASES

    return
}

#-----------------------------------------------------------------
a52problem1(){
    local TOP_PROB='5_Transport'
    local PR='5.2'

    printf "\t2-D saturated solute transport in a uniform flow field(5.2)\n"
    printf "\t\tProblem 1\n"

    local CASES="A B C D"
#    local CASES="A C D"
#    local CASES="B"
    for CASE in ${CASES[@]}; do
        printf "\t\tCase $CASE\n"

        local OB=$CASE
        local PROB="${PR}/${OB}"
```

```
        #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
        local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

        if [ $PROGTYPE = 'run' ]; then
            make_outdir $OUTDIR

            local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
            copy_and_convert_files $INDIR $OUTDIR

            #run porflow
            local INP_FILE="${PR}-${OB}.inp"
            run_file $OUTDIR $INP_FILE

            #This is for the x-direction (of flow)
            #calculate analytical solution (or copy analytical "results") and get the porflow results
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
            local DT=30

            local TIME="1400"
            local FILEIN="${PR}-${OB}.sav"

            local X_FT="min-270max960,dt${DT}"
            local Y_FT="0"
            local Z_FT="1"
            local ANS="X-0~C-4e"
            local FILEOUT="${PR}-${OB}-X-Y0Z1.txt"

            if [[ $CASE = 'B' ]]; then
                Y_FT=${X_FT}
                FILEOUT="${PR}-${OB}-XY-Z1.txt";
            fi
            run_anal ${OUTDIR} "sub521" ${FILEOUT} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

            #This is for the y-direction (of flow)
            local X_FTS="0␣420"
            for X_FT in ${X_FTS[@]}; do
                Y_FT="min-270max270,dt${DT}"
                Z_FT="1"
                ANS="Y-0~C-4e"
                FILEOUT="${PR}-${OB}-Y-X${X_FT}Z1.txt"

                if [[ $CASE = 'B' ]]; then
                    ANS="X-0~C-4e"
                    if [[ $X_FT = 420 ]]; then
                        #Y_FT="min270max-270,dt-30"
                        X_FT="min30max570,dt${DT}"
                        Y_FT="min570max30,dt-${DT}"
                        FILEOUT="${PR}-${OB}-Y-X424Z1.txt";
                    else
                        X_FT=${Y_FT}
                        Y_FT="min270max-270,dt-30"
                    fi
                fi

                run_anal ${OUTDIR} "sub521" ${FILEOUT} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${
                    TIME}
                get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
            done
        elif [ $PROGTYPE = 'comp_ver' ]; then
            local FILEOUT="${PR}-${OB}-X-Y0Z1.txt"
            if [[ $CASE = 'B' ]]; then
                FILEOUT="${PR}-${OB}-XY-Z1.txt";
            fi
            do_compare_ver ${OUTDIR} ${FILEOUT}

            local X_FTS="0␣420"
            for X_FT in ${X_FTS[@]}; do
                FILEOUT="${PR}-${OB}-Y-X${X_FT}Z1.txt"
                if [[ $CASE = 'B' && $X_FT = 420 ]]; then
                    FILEOUT="${PR}-${OB}-Y-X424Z1.txt";
                fi
                do_compare_ver ${OUTDIR} ${FILEOUT}
            done

        elif [ $PROGTYPE = 'comp_plat' ]; then
            do_compare_plat $PROB
        fi
    done #CASES

    return
}

#-----------------------------------------------------------
a53problem1(){
```

```
    local TOP_PROB='5_Transport'
    local PR='5.3'

    printf "\t3-D Saturated Solute Transport in a Uniform Flow Field(5.3)\n"
    printf "\t\tProblem 1\n"

    local CASES="BaseCase A-1 A-2 A-3 B-1 B-2 B-3 C-3"
    for CASE in ${CASES[@]}; do
        printf "\t\tCase $CASE\n"

        local OB=$CASE
        local PROB="${PR}/${OB}"

        #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
        local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

        if [ $PROGTYPE = 'run' ]; then
            make_outdir $OUTDIR

            local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
            copy_and_convert_files $INDIR $OUTDIR

            #run porflow
            local INP_FILE="${PR}-${OB}.inp"
            run_file $OUTDIR $INP_FILE

            #This is for the x-direction (of flow)
            #calculate analytical solution (or copy analytical "results") and get the porflow results
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
            local DT=30 #vs DT=10 - what happend to it?

#           if [ $CASE = 'BaseCase' ]; then
#               DT=30
#           fi

            local TIME="1400"
            local FILEIN="${PR}-${OB}.sav"

            local X_FT="min-270max960,dt${DT}"
            local Y_FT="0"
            local Z_FT="0"
            local ANS="X-0~C-4e"
            local FILEOUT="${PR}-${OB}-X-Y0Z0.txt"

            run_anal ${OUTDIR} "sub531" ${FILEOUT} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
            get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

            local X_FTS="120 210"

            #This is for the y-direction (of flow)
            for X_FT in ${X_FTS[@]}; do
                Y_FT="min-270max270,dt${DT}"
                Z_FT="0"
                ANS="Y-0~C-4e"
                FILEOUT="${PR}-${OB}-Y-X${X_FT}Z0.txt"

                run_anal ${OUTDIR} "sub531" ${FILEOUT} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${
                    TIME}
                get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
            done

            #This is for the z-direction (of flow)
            for X_FT in ${X_FTS[@]}; do
                Z_FT="min-270max270,dt${DT}"
                Y_FT="0"
                ANS="Z-0~C-4e"
                FILEOUT="${PR}-${OB}-Z-X${X_FT}Y0.txt"

                run_anal ${OUTDIR} "sub531" ${FILEOUT} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${
                    TIME}
                get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
            done

        elif [ $PROGTYPE = 'comp_ver' ]; then
            local FILEOUT="${PR}-${OB}-X-Y0Z0.txt"
            do_compare_ver ${OUTDIR} ${FILEOUT}

            local X_FTS="120 210"
            for X_FT in ${X_FTS[@]}; do
                FILEOUT="${PR}-${OB}-Y-X${X_FT}Z0.txt"
                do_compare_ver ${OUTDIR} ${FILEOUT}
            done
            for X_FT in ${X_FTS[@]}; do
                FILEOUT="${PR}-${OB}-Z-X${X_FT}Y0.txt"
                do_compare_ver ${OUTDIR} ${FILEOUT}
            done
```

```
        elif [ $PROGTYPE = 'comp_plat' ]; then
            do_compare_plat $PROB
        fi
    done #cases
    return
}


#------------------------------------------------------------
a54problem1(){
    local TOP_PROB='5_Transport'
    local PR='5.4'

    printf "\tSlit␣and␣Engineered␣Trench␣Radon␣Air␣Pathway␣Transport␣Simulation(5.4)\n"
    printf "\t\tProblem␣1\n"

    #if more than 1 nuclide added in future, make code like that of a53 (eg CASE In CASES)
    local OB='Th-230'
    local PROB="${PR}/${OB}"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    local NUCS="Th-230␣Ra-226␣Rn-222"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local INP_FILE="${OB}.inp"
        run_file $OUTDIR $INP_FILE

        local X_FT="0.5"
        local Y_FT="0.00000000E+000,1.50000000E-001,4.55000000E-001,7.60000000E-001,1.06500000E+000,1.37000000E
             +000,1.67500000E+000,1.98000000E+000,2.28500000E+000,2.59000000E+000,2.89500000E+000,3.20000000E
             +000,3.46500000E+000,3.65500000E+000,3.79500000E+000,3.91000000E+000,4.00000000E+000,4.08000000E
             +000,4.15500000E+000,4.23000000E+000,4.30500000E+000,4.38000000E+000,4.46000000E+000,4.53500000E
             +000,4.61000000E+000,4.69000000E+000,4.76500000E+000,4.84000000E+000,4.91500000E+000,4.99000000E
             +000,5.07000000E+000,5.14500000E+000,5.22000000E+000,5.30000000E+000,5.37500000E+000,5.45000000E
             +000,5.52500000E+000,5.60000000E+000,5.68000000E+000,5.75500000E+000,5.83000000E+000,5.91000000E
             +000,5.98500000E+000,6.06000000E+000,6.13500000E+000,6.25000000E+000,6.44000000E+000,6.70500000E
             +000,7.01000000E+000,7.31500000E+000,7.58500000E+000,7.77500000E+000,7.90000000E+000,7.99000000E
             +000,8.03000000E+000"
        local Z_FT="1"

        local TIME="1e3"

        #-----------------------------------------------------
        #concentration in space - from "SAV" file
        #-----------------------------------------------------

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"

        local ANS="Y-3~C-3"
        local FILEOUT="${OB}.txt"
        for NUC in ${NUCS[@]}; do
            if [ $NUC = 'Th-230' ]; then
                ANS="Y-3~C-3"
            elif [ $NUC = 'Ra-226' ]; then
                ANS="Y-3~C2-3"
            elif [ $NUC = 'Rn-222' ]; then
                ANS="Y-3~C3-3"
            fi
            FILEOUT="${NUC}.txt"
            run_anal ${OUTDIR} "sub541" "${NUC}-CONC" ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${
                 TIME}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"
            get_porflow ${OUTDIR} ${OB}.sav ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

        done

        #-----------------------------------------------------
        #flux at land surface vs time - from "FLUX" file
        #-----------------------------------------------------
        NUC='Rn-222'
        ANS='C3-3e~DIFFUSIVE' #Variable-units~Column (15)

        local DT=10
        VAL1="min1max1000,dt${DT}"
        VAL2="1"
        VAL3="1"
```

```
        FILEOUT="${NUC}-flux.txt"

        AANS='T-0~C3-3e'

        run_anal ${OUTDIR} "sub542" "${NUC}-FLUX" ${FILEOUT} ${ANAL_PROG} ${VAL1} ${VAL2} ${VAL3} ${AANS} ${TIME}

        PROG="${BENCHMARK_DIR}/Perls/flux-porflow.pl"
        get_porflow ${OUTDIR} "FLUX.out" ${FILEOUT} ${PROG} ${VAL1} ${VAL2} ${VAL3} ${ANS} ${TIME}

    elif [ $PROGTYPE = 'comp_ver' ]; then
        #for CONC
        for NUC in ${NUCS[@]}; do
            local FILEOUT="${NUC}.txt"
            do_compare_ver $OUTDIR $FILEOUT
        done

        #for FLUX
        local FILEOUT="Rn-222-flux.txt"
        do_compare_ver $OUTDIR $FILEOUT


    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#------------------------------------------------------------------------------------------
a55aux2(){
    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local TIMES_TO_RUN="25 50"
    local RET_TO_RUN="phi wc"
    local ALL_C="C C2"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local INP_FILE="${IN}.inp"
        run_file $OUTDIR $INP_FILE

        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
        local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"

        local DT=10
        local X_FT="min0max400,dt${DT}"
        local Y_FT="0.5"
        local Z_FT="1"

        #calculate analytical solution (or copy analytical "results")
        for RET in ${RET_TO_RUN[@]}; do
            for TIME in ${TIMES_TO_RUN[@]}; do
                local FILEIN="${IN}-${RET}.sav"
                for C in ${ALL_C[@]}; do
                    local ANS="X-1~${C}-3"
                    local FILEOUT="${IN}-${RET}-${C}-${TIME}.txt"
                    run_anal ${OUTDIR} "sub551" ${PROB} ${FILEOUT} ${ANAL_PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${
                        TIME}
                    get_porflow ${OUTDIR} ${FILEIN} ${FILEOUT} ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}
                done
            done
        done
    elif [ $PROGTYPE = 'comp_ver' ]; then
        for RET in ${RET_TO_RUN[@]}; do
            for TIME in ${TIMES_TO_RUN[@]}; do
                for C in ${ALL_C[@]}; do
                    local FILEOUT="${IN}-${RET}-${C}-${TIME}.txt"
                    do_compare_ver $OUTDIR $FILEOUT
                done
            done
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi

}

#------------------------------------------------------------
a55problem1(){
    local TOP_PROB='5_Transport'
    local PR='5.5'
    local OB='5.5.1'
```

```
    local PROB="${PR}/${OB}"

    printf "\t1-D unsaturated solute transport in a uniform flow field (5.5)\n"
    printf "\t\tProblem 1\n"

    local IN=$OB

    a55aux2

    return
}

#--------------------------------------------------------------
a55problem2(){
    local TOP_PROB='5_Transport'
    local PR='5.5'
    local OB='5.5.2'


    local CASES="A B C D E"

    printf "\t1-D unsaturated solute transport in a uniform flow field (5.5)\n";
    printf "\t\tProblem 2\n"

    for CASE in ${CASES[@]}; do
        local PROB="${PR}/${OB}/${CASE}"
        local IN=${CASE}
        printf "\t\tCase ${OB}-${CASE}\n"
        a55aux2
    done

    return
}

#--------------------------------------------------------------
a61aux(){
    local TOP_PROB=$1
    local PR=$2
    local OB=$3
    local PROB=$4
    local ANAL=$5

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

   local CASES="01 02 03 04 05 06 07 08 09 10"
#     local CASES="02 03 04 05 06 07 08 09 10"
#     CASES="03"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local INP_FILE="${OB}.inp"
        run_file $OUTDIR $INP_FILE

        for CASE in ${CASES[@]}; do
            printf "\t\tCase ${OB}-L${CASE}\n"

            #calculate analytical solution (or copy analytical "results")
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local OUT="${OB}-L${CASE}"
            local DX=60
            local NUM_I=7

            if [ $CASE = "01" ]; then
                DX=0.1
                NUM_I=4000
            elif [ $CASE = "02" ]; then
                DX=1
                NUM_I=400
            elif [ $CASE = "03" ]; then
                DX=5
                NUM_I=80
            elif [ $CASE = "04" ]; then
                DX=10
                NUM_I=40
            elif [ $CASE = "05" ]; then
                DX=15
                NUM_I=27
            elif [ $CASE = "06" ]; then
                DX=20
                NUM_I=20
            elif [ $CASE = "07" ]; then
```

```
                DX=30
                NUM_I=13
            elif [ $CASE = "08" ]; then
                DX=40
                NUM_I=10
            elif [ $CASE = "09" ]; then
                DX=50
                NUM_I=8
            elif [ $CASE = "10" ]; then
                DX=60
                NUM_I=7
            fi
            local MAX=`echo ${DX}*${NUM_I} | bc -iq | tail -n1`

            local DIST_COL="DIST/STEP"
            local ANS="X-1~C-4"
            local TIME="5.5"

            run_anal ${OUTDIR} ${ANAL} ${PR} ${OUT}.txt ${ANAL_PROG} ${NUM_I} ${DX} ${DIST_COL} ${ANS} ${TIME}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/sav-porflow.pl"

            local X_FT="min0max${MAX},dt${DX}"
            local Y_FT="0.5"
            local Z_FT="1"
            get_porflow ${OUTDIR} ${OUT}.sav ${OUT}.txt ${PROG} ${X_FT} ${Y_FT} ${Z_FT} ${ANS} ${TIME}

        done
    elif [ $PROGTYPE = 'comp_ver' ]; then
        for CASE in ${CASES[@]}; do
            local FILEOUT="${OB}-L${CASE}.txt"
            do_compare_ver $OUTDIR $FILEOUT
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi

    return
}

#-------------------------------------------------------------------
a61problem1(){
    local TOP_PROB='6_Numerical_Dispersion'
    local PR='6.1'
    local OB='6.1.1'
    local PROB=${PR}/${OB}
    local ANAL='sub611'

    printf "\tNumerical and Mechanical Dispersion in a One-Dimensional Saturated Soil Column (6.1)\n"
    printf "\t\tProblem 1 - Numerical\n"

    a61aux ${TOP_PROB} ${PR} ${OB} ${PROB} ${ANAL}

    return
}

#-------------------------------------------------------------------
a61problem2(){
    local TOP_PROB='6_Numerical_Dispersion'
    local PR='6.1'
    local OB='6.1.2'
    local PROB="${PR}/${OB}"
    local ANAL='sub612'

    printf "\tNumerical and Mechanical Dispersion in a One-Dimensional Saturated Soil Column (6.1)\n"
    printf "\t\tProblem 2 - Mechanical\n"

    a61aux ${TOP_PROB} ${PR} ${OB} ${PROB} ${ANAL}

    return
}

#-------------------------------------------------------------------
a71problem1(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.1'
    local PROB=${PR}

    printf "\tDECAy and REGEneration (7.1)\n"
    printf "\t\tProblem 1\n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    local CASES="U230 Th226 Ra222 Rn218 Po214 Pb210 Bi210 Po210"
#    local CASES="U230 Th226"
```

```
    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local INP_FILE="DECAy.inp"
        run_file $OUTDIR $INP_FILE

        local RES_FILE="DECAy-1.his"
        for CASE in ${CASES[@]}; do
            printf "\t\tCase ${CASE}\n"

            if [ $CASE = "U230" ]; then
                ANS="C-5e"
            elif [ $CASE = "Th226" ]; then
                ANS="C2-5e"
            elif [ $CASE = "Ra222" ]; then
                ANS="C3-5e"
            elif [ $CASE = "Rn218" ]; then
                ANS="C4-5e"
            elif [ $CASE = "Po214" ]; then
                RES_FILE="DECAy-2.his"
                ANS="C5-5e"
            elif [ $CASE = "Pb210" ]; then
                RES_FILE="DECAy-2.his"
                ANS="C6-5e"
            elif [ $CASE = "Bi210" ]; then
                RES_FILE="DECAy-2.his"
                ANS="C7-5e"
            elif [ $CASE = "Po210" ]; then
                RES_FILE="DECAy-2.his"
                ANS="C8-5e"
            fi

            #calculate analytical solution (or copy analytical "results")
            local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
            local OUT="${CASE}.txt"

            local TIME_COL="TIME:STEP-1"
            local ID=1
            local COLS="${ID}~${TIME_COL}~${ANS}"

            local NUM_I=2000
            local DI=10
            local DT=0.1 #time spacing (200 years @ 1/10 year per step)

            run_anal ${OUTDIR} "sub71" ${CASE} ${OUT} ${ANAL_PROG} ${NUM_I} ${DI} ${DT} ${COLS}

            #get the porflow results
            local PROG="${BENCHMARK_DIR}/Perls/his-porflow.pl"
            get_porflow ${OUTDIR} ${RES_FILE} ${OUT} ${PROG} ${NUM_I} ${DI} ${DT} ${COLS}

        done
    elif [ $PROGTYPE = 'comp_ver' ]; then
        for CASE in ${CASES[@]}; do
            local OUT="${CASE}.txt"
            do_compare_ver $OUTDIR $OUT
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}

#-------------------------------------------------------
a72aux(){
    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local FILEOUT="${FILE}.txt"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local INP_FILE="${FILE}.inp"
        run_file $OUTDIR $INP_FILE

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"

        local TIME_COL="TIME:STEP-1"
```

```
        local ANS="C-4"
        local ID=1
        local COLS="${ID}~${TIME_COL}~${ANS}"

        local NUM_I=40
        local DI=1
        local NUM_T=`echo ${NUM_I}/${DI} | bc -iq | tail -n1` #40
        local DT=10 #time spacing

        run_anal ${OUTDIR} ${ANAL} ${FILE} ${FILEOUT} ${ANAL_PROG} ${NUM_T} ${DT} ${TIME_COL} ${ANS}

        #get the porflow results
        local PROG="${BENCHMARK_DIR}/Perls/his-porflow.pl"
        get_porflow ${OUTDIR} ${FILE}-C.his ${FILEOUT} ${PROG} ${NUM_I} ${DI} ${DT} ${COLS}

    elif [ $PROGTYPE = 'comp_ver' ]; then
        do_compare_ver $OUTDIR $FILEOUT
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi

    return
}

#--------------------------------------------------------
a72problem1(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.2'
    local OB='7.2.1'
    local PROB=${PR}/${OB}

    local ANAL='sub72'
     local FILE='DIST'

    printf "\tDISTribution_and_RETArdation (7.2)\n"
    printf "\t\tProblem 1 - DIST (Mode 3)\n"

    a72aux

    return
}
a72problem2(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.2'
    local OB='7.2.2'
    local PROB=${PR}/${OB}

    local ANAL='sub72'
    local FILE='DIST2'

    printf "\tDISTribution_and_RETArdation (7.2)\n"
    printf "\t\tProblem 2 - DIST (Mode 1)\n"

    a72aux

    return
}
a72problem3(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.2'
    local OB='7.2.3'
    local PROB=${PR}/${OB}

    local ANAL='sub72'
    local FILE='RETA'

    printf "\tDISTribution_and_RETArdation (7.2)\n"
    printf "\t\tProblem 3 - RETA\n"

    a72aux

    return
}
a72problem4(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.2'
    local OB='7.2.4'
    local PROB=${PR}/${OB}

    local ANAL='sub72'
    local FILE='TRAN'

    printf "\tDISTribution_and_RETArdation (7.2)\n"
    printf "\t\tProblem 4 - TRAN \n"

    a72aux
```

```
    return
}
a72problem5(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.2'
    local OB='7.2.5'
    local PROB=${PR}/${OB}

    local ANAL='sub72'
    local FILE='TRAN2'

    printf "\tDISTribution_and_RETArdation␣(7.2)\n"
    printf "\t\tProblem␣5␣-␣TRAN2␣\n"

    a72aux

    return
}


a73aux(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.3'
#    local OB='7.3.1'
    local PROB=${PR}/${OB}

    local ANAL='sub731' #because all 7.3 problems should have same answer
    local FILE='DIST'   #legacy (but OK b/c in diff directories) maybe change later

#    printf "\tDISTribution Mode 3 (7.3)\n"
#    printf "\t\tProblem 1 - DIST \n"

    #benchmark_dir and output defined up in run_bench (maybe should be in porflow_info)
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local FILEOUT1="${FILE}-C.txt"
    local FILEOUT2="${FILE}-C2.txt"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local INP_FILE="${FILE}.inp"
        run_file $OUTDIR $INP_FILE

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
        local PROG="${BENCHMARK_DIR}/Perls/his-porflow.pl"

        local NUM_I=1000
        local DI=1
        local NUM_T=`echo ${NUM_I}/${DI} | bc -iq | tail -n1` #1000
        local DT=1 #time spacing

        local ID=10
        local TIME_COL="TIME:STEP-0"

        local ANS="C-4e"
        local COLS="${ID}~${TIME_COL}~${ANS}"
        run_anal ${OUTDIR} ${ANAL} ${FILE} ${FILEOUT1} ${ANAL_PROG} ${NUM_T} ${DT} ${TIME_COL} ${ANS}
        get_porflow ${OUTDIR} ${FILE}.his ${FILEOUT1} ${PROG} ${NUM_I} ${DI} ${DT} ${COLS}

        ANS="C2-4e"
        COLS="${ID}~${TIME_COL}~${ANS}"
        run_anal ${OUTDIR} ${ANAL} ${FILE} ${FILEOUT2} ${ANAL_PROG} ${NUM_T} ${DT} ${TIME_COL} ${ANS}
        get_porflow ${OUTDIR} ${FILE}.his ${FILEOUT2} ${PROG} ${NUM_I} ${DI} ${DT} ${COLS}


    elif [ $PROGTYPE = 'comp_ver' ]; then
#        echo $OUTDIR
#        echo $FILEOUT1
        do_compare_ver $OUTDIR $FILEOUT1
        do_compare_ver $OUTDIR $FILEOUT2
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi

    return
}

a73problem1(){
    local OB='7.3.1'
#    local FILE='7.3.1' #called DIST for legacy reasons, maybe change later
    printf "\tDISTribution_and_RETArdation␣(7.3)\n"
    printf "\t\tProblem␣1␣-␣Kd␣\n"
```

```
    a73aux

    return
}
a73problem2(){
    local OB='7.3.2'
#     local FILE='7.3.2'  #called DIST for legacy reasons, maybe change later
    printf "\tDISTribution_and_RETArdation (7.3)\n"
    printf "\t\tProblem 2 - DIST (Mode 3) \n"

    a73aux

    return
}
a73problem3(){
    local OB='7.3.3'
#     local FILE='7.3.3'  #called DIST for legacy reasons, maybe change later
    printf "\tDISTribution_and_RETArdation (7.3)\n"
    printf "\t\tProblem 3 - DIST (Mode 1) \n"

    a73aux

    return
}
a73problem4(){
    local OB='7.3.4'
#     local FILE='7.3.4'  #called DIST for legacy reasons, maybe change later
    printf "\tDISTribution_and_RETArdation (7.3)\n"
    printf "\t\tProblem 4 - DIST (Mode 1 - Tabular) \n"

    a73aux

    return
}
a73problem5(){
    local OB='7.3.5'
#     local FILE='7.3.4'  #called DIST for legacy reasons, maybe change later
    printf "\tDISTribution_and_RETArdation (7.3)\n"
    printf "\t\tProblem 5 - RETA (Mode 1 - Direct)\n"

    a73aux

    return
}
a73problem6(){
    local OB='7.3.6'
#     local FILE='7.3.4'  #called DIST for legacy reasons, maybe change later
    printf "\tDISTribution_and_RETArdation (7.3)\n"
    printf "\t\tProblem 6 - RETA (Mode 1 - Tablular) \n"

    a73aux

    return
}


#------------------------------------------------------------
a74problem1(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.4'
    local PROB=${PR}

    printf "\tSTATistics (7.4)\n"
    printf "\t\tProblem 1\n"

    #benchmark defined in porflow_info
    #output defined in run_bench and compare_version
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    local FILES="SRCE.loc DOMAIN-STAT.out RECT.loc RECT-STAT.out"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="STAT.inp"
        run_file $OUTDIR $FILEIN

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"

        local A=1
```

```
        local B=1
        local C=1
        local D=1
        local E=1

        for IN in ${FILES[@]}; do
            local OUT="${IN}.txt"

            run_anal ${OUTDIR} "sub74" ${IN} ${OUT} ${ANAL_PROG} ${A} ${B} ${C} ${D} ${E}

            local PROG="${BENCHMARK_DIR}/Perls/cut-porflow.pl"
            get_porflow ${OUTDIR} ${IN} ${OUT} ${PROG} ${A} ${B} ${C} ${D} ${E}
        done
    elif [ $PROGTYPE = 'comp_ver' ]; then
        for IN in ${FILES[@]}; do
            local FILEOUT="${IN}.txt"
            do_compare_ver $OUTDIR $FILEOUT
        done
    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return
}


#-----------------------------------------------------------
a75(){
    local IN=$1
    local OUTDIR=$2
    local WEIGHT=$3

    local CASES="U" # UU" #UU case is fine grained - and not needed going forward
    local KFACES="1_1 10_1 1_10 10_10"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        local FILEIN="RUN_${IN}.dat"
        run_file $OUTDIR $FILEIN

        #calculate analytical solution (or copy analytical "results")
        local ANAL_PROG="${BENCHMARK_DIR}/Perls/ana.pl"
        for CASE in ${CASES[@]}; do
            for KFACE in ${KFACES[@]}; do
                local L=$(echo ${KFACE} | cut -f1 -d_)
                local R=$(echo ${KFACE} | cut -f2 -d_)

                local A=75
                local B=$L
                local C=$R
                local D=${WEIGHT}
                local E="x75"

                local PRE="${CASE}${KFACE}_${IN}"

                local OUT="${PRE}.txt"
                run_anal ${OUTDIR} "sub75" ${IN} ${OUT} ${ANAL_PROG} ${A} ${B} ${C} ${D} ${E}

                local PROG="${BENCHMARK_DIR}/Perls/cut-porflow.pl"
                get_porflow ${OUTDIR} "${PRE}.dat" ${OUT} ${PROG} ${A} ${B} ${C} ${D} ${E}
            done
        done
    elif [ $PROGTYPE = 'comp_ver' ]; then
        for CASE in ${CASES[@]}; do
            for KFACE in ${KFACES[@]}; do
                local L=$(echo ${KFACE} | cut -f1 -d_)
                local R=$(echo ${KFACE} | cut -f2 -d_)

                local A=75
                local B=$L
                local C=$R
                local D=${WEIGHT}
                local E="x75"

                local PRE="${CASE}${KFACE}_${IN}"
                local FILEOUT="${PRE}.txt"
                do_compare_ver $OUTDIR $FILEOUT
            done
         done
         #make composite table from results
         local PWD=`pwd`
         cd ${OUTDIR}
         rm "U_${IN}.txt"
```

```
        #rm "UU_${IN}.txt"
        #grep "" UU1*.txt | sed -e s/U.*:// | sort -r > "UU_${IN}.txt"
        grep "" U1*.txt | sed -e s/U.*:// | sed -e s/^\\t$// | sort -r > "U_${IN}.txt" #added the remove lonely
            TAB, seems to mess up the csvreader
        cd ${PWD}

    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi

}


#------------------------------------------------------------------
#7.5.1
a75problem11(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.5'
    local OB='7.5.1'
    local LEM='7.5.1.1'
    local PROB=${PR}/${OB}/${LEM}

    printf "\tPROPerty ARITHmetic(7.5.1)\n"
    printf "\t\tProblem 1\n"

    #benchmark defined in porflow_info
    #output defined in run_bench and compare_version
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    local IN="Arithmetic"
    local WEIGHT="DEFAULT"

    a75 ${IN} ${OUTDIR} ${WEIGHT}

    return
}
a75problem12(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.5'
    local OB='7.5.1'
    local LEM='7.5.1.2'
    local PROB=${PR}/${OB}/${LEM}

    printf "\tPROPerty ARITHmetic(7.5.1)\n"
    printf "\t\tProblem 2\n"

    #benchmark defined in porflow_info
    #output defined in run_bench and compare_version
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    local IN="Arithmetic"
    local WEIGHT="TRAV"

    a75 ${IN} ${OUTDIR} ${WEIGHT}

    return
}

#------------------------------------------------------------------
#7.5.2
a75problem21(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.5'
    local OB='7.5.2'
    local LEM='7.5.2.1'
    local PROB=${PR}/${OB}/${LEM}

    printf "\tPROPerty GEOMetric(7.5.2)\n"
    printf "\t\tProblem 1\n"

    #benchmark defined in porflow_info
    #output defined in run_bench and compare_version
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local IN="Geometric"
    local WEIGHT='DEFAULT'

    a75 ${IN} ${OUTDIR} ${WEIGHT}

    return
}
a75problem22(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.5'
    local OB='7.5.2'
    local LEM='7.5.2.2'
    local PROB=${PR}/${OB}/${LEM}
```

```
    printf "\tPROPerty␣GEOMetric(7.5.2)␣with␣TRAVel␣option\n"
    printf "\t\tProblem␣2\n"

    #benchmark defined in porflow_info
    #output defined in run_bench and compare_version
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB
    local IN="Geometric"
    local WEIGHT='TRAV'

    a75 ${IN} ${OUTDIR} ${WEIGHT}

    return
}

#----------------------------------------------------------------
#7.5.3.1
a75problem31(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.5'
    local OB='7.5.3'
    local LEM='7.5.3.1'
    local PROB=${PR}/${OB}/${LEM}

    printf "\tPROPerty␣HARMonic(7.5.3.1)\n"
    printf "\t\tProblem␣1\n"

    #benchmark defined in porflow_info
    #output defined in run_bench and compare_version
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    local IN="Harmonic"
    local WEIGHT='DEFAULT'

    a75 ${IN} ${OUTDIR} ${WEIGHT}

    return
}
#7.5.3.2
a75problem32(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.5'
    local OB='7.5.3'
    local LEM='7.5.3.2'
    local PROB=${PR}/${OB}/${LEM}

    printf "\tPROPerty␣HARMonic␣with␣TRAVel␣time(7.5.3.2)\n"
    printf "\t\tProblem␣1\n"

    #benchmark defined in porflow_info
    #output defined in run_bench and compare_version
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

    local IN="Harmonic"
    local WEIGHT='TRAV'

    a75 ${IN} ${OUTDIR} ${WEIGHT}

    return
}

#----------------------------------------------------------------
a76problem1(){
    local TOP_PROB='7_Keyword_Commands'
    local PR='7.6'
#     local OB='7.5.3'
#     local LEM='7.5.3.1'
    local PROB=${PR} #/${OB}/${LEM}

    printf "\tHISTory␣UNFORMatted␣STREAm␣COMPact␣(7.6)\n"
    printf "\t\tProblem␣1\n"

    #benchmark defined in porflow_info
    #output defined in run_bench and compare_version
    local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$TOP_PROB/$PROB

#     local FILES="SRCE.loc DOMAIN-STAT.out RECT.loc RECT-STAT.out"

    if [ $PROGTYPE = 'run' ]; then
        make_outdir $OUTDIR

        local INDIR=$BENCHMARK_DIR/Problems_Input/$TOP_PROB/$PROB
        copy_and_convert_files $INDIR $OUTDIR

        #run porflow
        #this should generate hA.his and hB.his  (normal and binary-with-noheader)
        local FILEIN="h01.inp"
        run_file $OUTDIR $FILEIN
```

```
        local PWD=`pwd`
        for VER in ${VERS[@]}; do
            cd $OUTDIR/$VER

            #create the BinaryConversion code which will read hB.his
            gfortran -o testBinary.exe testBinary.f90
            chmod +x testBinary.exe

            #create "normal" output from binary hB.his -> hAprime.his
            hA="hA.his"
            hAfromB="hAfromB.his"
            ./testBinary.exe > ${hAfromB}

            #make common output
            ${BENCHMARK_DIR}/Pythons/commonizeBandA.py ${hAfromB} ${hA}

            #compare the output (this will be 0 for good comparisons)
            COMP=compare.txt
            sdiff -sb "out${hAfromB}" "out${hA}" > ${COMP}
#             if [ `wc -l ${COMP} | cut -f 1 -d " "` -gt 2 ]; then #have more than 0 lines, so plot it
#                 touch comp.txt
#             fi
        done

    elif [ $PROGTYPE = 'comp_ver' ]; then
        local FILEOUT="compare.txt"
        do_compare_ver_err ${OUTDIR} ${FILEOUT}  #do the err.txt compare

    elif [ $PROGTYPE = 'comp_plat' ]; then
        do_compare_plat $PROB
    fi
    return

}

#------------------------------------------------------------
a81problem1(){
    printf "\tBugs (8.1)\n"
    printf "\t\tProblem 1\n"

    local PR='8.1'
    local BUGS="b1 b2"
    for BUG in ${BUGS[@]}; do

        printf "\t\t\tCommand ${BUG}\n"

        local PROB=${PR}

        if [ $PROGTYPE = 'run' ]; then
            local TOP_PROB='Bugs'
            local INP_FILE="${BUG}.inp"
            run_file $TOP_PROB $PROB $INP_FILE

            return

            cd $BENCHMARK_DIR/Bugs/$PROB

            local OUTDIR=$BENCHMARK_DIR/$OUTPUT/$PROB

            make_outdir $OUTDIR

            for VER in ${VERS[@]}; do
                run_file $VER $RUN
            done

            cd $BENCHMARK_DIR
        elif [ $PROGTYPE = 'comp_ver' ]; then
            do_compare_ver $PROB a81problem1_out
        elif [ $PROGTYPE = 'comp_plat' ]; then
            do_compare_plat $PROB
        fi
    done
    return
}
```

Distribution:

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