

Name: Obioma Eromosele

Matriculation Number: 16/ENG01/014

Department: Chemical Engineering

Assignment

$$d^2x/dt^2 + 5 * dx/dt + 6x = \text{cost}$$

$$x = e^{kt}$$

$$x^1 = ke^{kt} = kx$$

$$x^{11} = k^2e^{kt} = k^2x$$

substituting values into the first equation

$$k^2x + 5kx + 6x = 0$$

$$k^2 + 5k + 6 = 0$$

$$k^2 + 3k + 2k + 6 = 0$$

$$k(k+3) + 2(k+3) = 0$$

$$(k+2)(k+3) = 0$$

$$k = -2 \text{ and } -3$$

Complimentary function

$$x = Ae^{-2t} + Be^{-3t}$$

for the particular integral

$$x = C\text{cost} + D\text{sint}$$

$$dx/dt = -C\text{sint} + D\text{cost}$$

$$d^2x/dt^2 = -C\text{cost} - D\text{sint}$$

Substituting the equations into the first equation

$$-C\text{cost} - D\text{sint} - 5C\text{sint} + 5D\text{cost} + 6C\text{cost} + 6D\text{sint} = \text{cost}$$

$$\cos t (-C + 6C + 5D) + \sin t (-D - 5C + 6D) = \cos t$$

$$\cos t (5D + 5C) + \sin t (5D - 5C) = \cos t$$

$$\cos t (5C + 5D) = \cos t$$

$$\sin t (-5C + 5D) = 0$$

$$5C + 5D = 1$$

$$-5C + 5D = 0$$

Solving simultaneously

$$10D = 1$$

$$D = 1/10$$

Substituting D into the equation

$$5C + 5(1/10) = 1$$

$$5C + 0.5 = 1$$

$$5C = 1 - 0.5$$

$$5C = 0.5$$

$$C = 0.1$$

Complimentary function + Particular integral

$$x = Ae^{-2t} + Be^{-3t} + 0.1\cos t + 0.1\sin t$$

To determine A and B

$$\text{Where } t = 0, x = 0.1, dx/dt = 0$$

$$0.1 = A + B + 0.1$$

$$0.1 - 0.1 = A + B$$

$$A + B = 0$$

$$A = -B$$

$$dx/dt = -2 Ae^{-2t} - 3Be^{-3t} - 0.1\sin t + 0.1\cos t$$

$$0 = -2 Ae^{-2t} - 3Be^{-3t} - 0.1\sin t + 0.1\cos t$$

$$0 = -2A - 3B + 0.1$$

$$-0.1 = -(2A + 3B)$$

$$\text{But } A = -B$$

$$0.1 = -2A + 3B$$

$$0.1 = B$$

$$A = -0.1$$

$$x = 0.1(e^{-2t} - e^{-3t} + \cos t + \sin t)$$

For a steady state solution

$$dx/dt = 0$$

$$0 = 0.1(-2e^{-2t} + 3e^{-3t} + \cos t - \sin t)$$

$$0 = (-2e^{-2t} + 3e^{-3t} + \cos t - \sin t)$$

$$\sin t - \cos t = 3e^{-3t} - 2e^{-2t}$$

Equating both sides to zero

$$\sin t - \cos t = 0$$

$$\sin t = \cos t$$

Dividing both sides by $\cos t$

$$\sin t / \cos t = 1$$

$$\tan t = 1$$

$$t = \tan^{-1} 1$$

$$t = 45^\circ$$

$$x = 0.1(e^{-2t} - e^{-3t} + \cos t + \sin t)$$

$e^{-2t} - e^{-3t}$ is approximately zero

$$x = 0.1 (\cos t + \sin t)$$

$$\sin t = \cos t$$

$$x = 0.1 (\sin t + \sin t)$$

$$x = 0.1 (2\sin t)$$

$$x = 0.2 (\sin t)$$

$$\sin 45 = \sin (30 + 15)$$

$$x = 0.2 (\sin (k + a))$$

commandwindow

clear

clc

syms t

$$xn=0.1*(\exp(-2*t) - \exp(-3*t) + \cos(t) + \sin(t))$$

$$tn=[0:0.01:15]$$

$$z=\text{subs}(xn,tn)$$

figure(1)

plot(tn,z)

axis tight

grid on

grid minor

xlabel('time')

ylabel('response')

xn =

$$\exp(-2*t)/10 - \exp(-3*t)/10 + \cos(t)/10 + \sin(t)/10$$

tn =

Columns 1 through 10

0	0.0100	0.0200	0.0300	0.0400	0.0500	0.0600	0.0700
0.0800	0.0900						

Columns 11 through 20

0.1000	0.1100	0.1200	0.1300	0.1400	0.1500	0.1600
0.1700	0.1800	0.1900				

Columns 21 through 30

0.2000	0.2100	0.2200	0.2300	0.2400	0.2500	0.2600
0.2700	0.2800	0.2900				

Columns 31 through 40

0.3000 0.3100 0.3200 0.3300 0.3400 0.3500 0.3600
0.3700 0.3800 0.3900

Columns 41 through 50

0.4000 0.4100 0.4200 0.4300 0.4400 0.4500 0.4600
0.4700 0.4800 0.4900

Columns 51 through 60

0.5000 0.5100 0.5200 0.5300 0.5400 0.5500 0.5600
0.5700 0.5800 0.5900

Columns 61 through 70

0.6000 0.6100 0.6200 0.6300 0.6400 0.6500 0.6600
0.6700 0.6800 0.6900

Columns 71 through 80

0.7000 0.7100 0.7200 0.7300 0.7400 0.7500 0.7600
0.7700 0.7800 0.7900

Columns 81 through 90

0.8000 0.8100 0.8200 0.8300 0.8400 0.8500 0.8600
0.8700 0.8800 0.8900

Columns 91 through 100

0.9000 0.9100 0.9200 0.9300 0.9400 0.9500 0.9600
0.9700 0.9800 0.9900

Columns 101 through 110

1.0000 1.0100 1.0200 1.0300 1.0400 1.0500 1.0600
1.0700 1.0800 1.0900

Columns 111 through 120

1.1000 1.1100 1.1200 1.1300 1.1400 1.1500 1.1600
1.1700 1.1800 1.1900

Columns 121 through 130

1.2000 1.2100 1.2200 1.2300 1.2400 1.2500 1.2600
1.2700 1.2800 1.2900

Columns 131 through 140

1.3000 1.3100 1.3200 1.3300 1.3400 1.3500 1.3600
1.3700 1.3800 1.3900

Columns 141 through 150

1.4000 1.4100 1.4200 1.4300 1.4400 1.4500 1.4600
1.4700 1.4800 1.4900

Columns 151 through 160

1.5000 1.5100 1.5200 1.5300 1.5400 1.5500 1.5600
1.5700 1.5800 1.5900

Columns 161 through 170

1.6000 1.6100 1.6200 1.6300 1.6400 1.6500 1.6600
1.6700 1.6800 1.6900

Columns 171 through 180

1.7000 1.7100 1.7200 1.7300 1.7400 1.7500 1.7600
1.7700 1.7800 1.7900

Columns 181 through 190

1.8000 1.8100 1.8200 1.8300 1.8400 1.8500 1.8600
1.8700 1.8800 1.8900

Columns 191 through 200

1.9000 1.9100 1.9200 1.9300 1.9400 1.9500 1.9600
1.9700 1.9800 1.9900

Columns 201 through 210

2.0000 2.0100 2.0200 2.0300 2.0400 2.0500 2.0600
2.0700 2.0800 2.0900

Columns 211 through 220

2.1000 2.1100 2.1200 2.1300 2.1400 2.1500 2.1600
2.1700 2.1800 2.1900

Columns 221 through 230

2.2000 2.2100 2.2200 2.2300 2.2400 2.2500 2.2600
2.2700 2.2800 2.2900

Columns 231 through 240

2.3000 2.3100 2.3200 2.3300 2.3400 2.3500 2.3600
2.3700 2.3800 2.3900

Columns 241 through 250

2.4000 2.4100 2.4200 2.4300 2.4400 2.4500 2.4600
2.4700 2.4800 2.4900

Columns 251 through 260

2.5000 2.5100 2.5200 2.5300 2.5400 2.5500 2.5600
2.5700 2.5800 2.5900

Columns 261 through 270

2.6000 2.6100 2.6200 2.6300 2.6400 2.6500 2.6600
2.6700 2.6800 2.6900

Columns 271 through 280

2.7000 2.7100 2.7200 2.7300 2.7400 2.7500 2.7600
2.7700 2.7800 2.7900

Columns 281 through 290

2.8000 2.8100 2.8200 2.8300 2.8400 2.8500 2.8600
2.8700 2.8800 2.8900

Columns 291 through 300

2.9000 2.9100 2.9200 2.9300 2.9400 2.9500 2.9600
2.9700 2.9800 2.9900

Columns 301 through 310

3.0000 3.0100 3.0200 3.0300 3.0400 3.0500 3.0600
3.0700 3.0800 3.0900

Columns 311 through 320

3.1000 3.1100 3.1200 3.1300 3.1400 3.1500 3.1600
3.1700 3.1800 3.1900

Columns 321 through 330

3.2000 3.2100 3.2200 3.2300 3.2400 3.2500 3.2600
3.2700 3.2800 3.2900

Columns 331 through 340

3.3000 3.3100 3.3200 3.3300 3.3400 3.3500 3.3600
3.3700 3.3800 3.3900

Columns 341 through 350

3.4000 3.4100 3.4200 3.4300 3.4400 3.4500 3.4600
3.4700 3.4800 3.4900

Columns 351 through 360

3.5000 3.5100 3.5200 3.5300 3.5400 3.5500 3.5600
3.5700 3.5800 3.5900

Columns 361 through 370

3.6000 3.6100 3.6200 3.6300 3.6400 3.6500 3.6600
3.6700 3.6800 3.6900

Columns 371 through 380

3.7000 3.7100 3.7200 3.7300 3.7400 3.7500 3.7600
3.7700 3.7800 3.7900

Columns 381 through 390

3.8000 3.8100 3.8200 3.8300 3.8400 3.8500 3.8600
3.8700 3.8800 3.8900

Columns 391 through 400

3.9000 3.9100 3.9200 3.9300 3.9400 3.9500 3.9600
3.9700 3.9800 3.9900

Columns 401 through 410

4.0000 4.0100 4.0200 4.0300 4.0400 4.0500 4.0600
4.0700 4.0800 4.0900

Columns 411 through 420

4.1000 4.1100 4.1200 4.1300 4.1400 4.1500 4.1600
4.1700 4.1800 4.1900

Columns 421 through 430

4.2000 4.2100 4.2200 4.2300 4.2400 4.2500 4.2600
4.2700 4.2800 4.2900

Columns 431 through 440

4.3000 4.3100 4.3200 4.3300 4.3400 4.3500 4.3600
4.3700 4.3800 4.3900

Columns 441 through 450

4.4000 4.4100 4.4200 4.4300 4.4400 4.4500 4.4600
4.4700 4.4800 4.4900

Columns 451 through 460

4.5000 4.5100 4.5200 4.5300 4.5400 4.5500 4.5600
4.5700 4.5800 4.5900

Columns 461 through 470

4.6000 4.6100 4.6200 4.6300 4.6400 4.6500 4.6600
4.6700 4.6800 4.6900

Columns 471 through 480

4.7000 4.7100 4.7200 4.7300 4.7400 4.7500 4.7600
4.7700 4.7800 4.7900

Columns 481 through 490

4.8000 4.8100 4.8200 4.8300 4.8400 4.8500 4.8600
4.8700 4.8800 4.8900

Columns 491 through 500

4.9000 4.9100 4.9200 4.9300 4.9400 4.9500 4.9600
4.9700 4.9800 4.9900

Columns 501 through 510

5.0000 5.0100 5.0200 5.0300 5.0400 5.0500 5.0600
5.0700 5.0800 5.0900

Columns 511 through 520

5.1000 5.1100 5.1200 5.1300 5.1400 5.1500 5.1600
5.1700 5.1800 5.1900

Columns 521 through 530

5.2000 5.2100 5.2200 5.2300 5.2400 5.2500 5.2600
5.2700 5.2800 5.2900

Columns 531 through 540

5.3000 5.3100 5.3200 5.3300 5.3400 5.3500 5.3600
5.3700 5.3800 5.3900

Columns 541 through 550

5.4000 5.4100 5.4200 5.4300 5.4400 5.4500 5.4600
5.4700 5.4800 5.4900

Columns 551 through 560

5.5000 5.5100 5.5200 5.5300 5.5400 5.5500 5.5600
5.5700 5.5800 5.5900

Columns 561 through 570

5.6000 5.6100 5.6200 5.6300 5.6400 5.6500 5.6600
5.6700 5.6800 5.6900

Columns 571 through 580

5.7000 5.7100 5.7200 5.7300 5.7400 5.7500 5.7600
5.7700 5.7800 5.7900

Columns 581 through 590

5.8000 5.8100 5.8200 5.8300 5.8400 5.8500 5.8600
5.8700 5.8800 5.8900

Columns 591 through 600

5.9000 5.9100 5.9200 5.9300 5.9400 5.9500 5.9600
5.9700 5.9800 5.9900

Columns 601 through 610

6.0000 6.0100 6.0200 6.0300 6.0400 6.0500 6.0600
6.0700 6.0800 6.0900

Columns 611 through 620

6.1000 6.1100 6.1200 6.1300 6.1400 6.1500 6.1600
6.1700 6.1800 6.1900

Columns 621 through 630

6.2000 6.2100 6.2200 6.2300 6.2400 6.2500 6.2600
6.2700 6.2800 6.2900

Columns 631 through 640

6.3000 6.3100 6.3200 6.3300 6.3400 6.3500 6.3600
6.3700 6.3800 6.3900

Columns 641 through 650

6.4000 6.4100 6.4200 6.4300 6.4400 6.4500 6.4600
6.4700 6.4800 6.4900

Columns 651 through 660

6.5000 6.5100 6.5200 6.5300 6.5400 6.5500 6.5600
6.5700 6.5800 6.5900

Columns 661 through 670

6.6000 6.6100 6.6200 6.6300 6.6400 6.6500 6.6600
6.6700 6.6800 6.6900

Columns 671 through 680

6.7000 6.7100 6.7200 6.7300 6.7400 6.7500 6.7600
6.7700 6.7800 6.7900

Columns 681 through 690

6.8000 6.8100 6.8200 6.8300 6.8400 6.8500 6.8600
6.8700 6.8800 6.8900

Columns 691 through 700

6.9000 6.9100 6.9200 6.9300 6.9400 6.9500 6.9600
6.9700 6.9800 6.9900

Columns 701 through 710

7.0000 7.0100 7.0200 7.0300 7.0400 7.0500 7.0600
7.0700 7.0800 7.0900

Columns 711 through 720

7.1000 7.1100 7.1200 7.1300 7.1400 7.1500 7.1600
7.1700 7.1800 7.1900

Columns 721 through 730

7.2000 7.2100 7.2200 7.2300 7.2400 7.2500 7.2600
7.2700 7.2800 7.2900

Columns 731 through 740

7.3000 7.3100 7.3200 7.3300 7.3400 7.3500 7.3600
7.3700 7.3800 7.3900

Columns 741 through 750

7.4000 7.4100 7.4200 7.4300 7.4400 7.4500 7.4600
7.4700 7.4800 7.4900

Columns 751 through 760

7.5000 7.5100 7.5200 7.5300 7.5400 7.5500 7.5600
7.5700 7.5800 7.5900

Columns 761 through 770

7.6000 7.6100 7.6200 7.6300 7.6400 7.6500 7.6600
7.6700 7.6800 7.6900

Columns 771 through 780

7.7000 7.7100 7.7200 7.7300 7.7400 7.7500 7.7600
7.7700 7.7800 7.7900

Columns 781 through 790

7.8000 7.8100 7.8200 7.8300 7.8400 7.8500 7.8600
7.8700 7.8800 7.8900

Columns 791 through 800

7.9000 7.9100 7.9200 7.9300 7.9400 7.9500 7.9600
7.9700 7.9800 7.9900

Columns 801 through 810

8.0000 8.0100 8.0200 8.0300 8.0400 8.0500 8.0600
8.0700 8.0800 8.0900

Columns 811 through 820

8.1000 8.1100 8.1200 8.1300 8.1400 8.1500 8.1600
8.1700 8.1800 8.1900

Columns 821 through 830

8.2000 8.2100 8.2200 8.2300 8.2400 8.2500 8.2600
8.2700 8.2800 8.2900

Columns 831 through 840

8.3000 8.3100 8.3200 8.3300 8.3400 8.3500 8.3600
8.3700 8.3800 8.3900

Columns 841 through 850

8.4000 8.4100 8.4200 8.4300 8.4400 8.4500 8.4600
8.4700 8.4800 8.4900

Columns 851 through 860

8.5000 8.5100 8.5200 8.5300 8.5400 8.5500 8.5600
8.5700 8.5800 8.5900

Columns 861 through 870

8.6000 8.6100 8.6200 8.6300 8.6400 8.6500 8.6600
8.6700 8.6800 8.6900

Columns 871 through 880

8.7000 8.7100 8.7200 8.7300 8.7400 8.7500 8.7600
8.7700 8.7800 8.7900

Columns 881 through 890

8.8000 8.8100 8.8200 8.8300 8.8400 8.8500 8.8600
8.8700 8.8800 8.8900

Columns 891 through 900

8.9000 8.9100 8.9200 8.9300 8.9400 8.9500 8.9600
8.9700 8.9800 8.9900

Columns 901 through 910

9.0000 9.0100 9.0200 9.0300 9.0400 9.0500 9.0600
9.0700 9.0800 9.0900

Columns 911 through 920

9.1000 9.1100 9.1200 9.1300 9.1400 9.1500 9.1600
9.1700 9.1800 9.1900

Columns 921 through 930

9.2000 9.2100 9.2200 9.2300 9.2400 9.2500 9.2600
9.2700 9.2800 9.2900

Columns 931 through 940

9.3000 9.3100 9.3200 9.3300 9.3400 9.3500 9.3600
9.3700 9.3800 9.3900

Columns 941 through 950

9.4000 9.4100 9.4200 9.4300 9.4400 9.4500 9.4600
9.4700 9.4800 9.4900

Columns 951 through 960

9.5000 9.5100 9.5200 9.5300 9.5400 9.5500 9.5600
9.5700 9.5800 9.5900

Columns 961 through 970

9.6000 9.6100 9.6200 9.6300 9.6400 9.6500 9.6600
9.6700 9.6800 9.6900

Columns 971 through 980

9.7000 9.7100 9.7200 9.7300 9.7400 9.7500 9.7600
9.7700 9.7800 9.7900

Columns 981 through 990

9.8000 9.8100 9.8200 9.8300 9.8400 9.8500 9.8600
9.8700 9.8800 9.8900

Columns 991 through 1000

9.9000 9.9100 9.9200 9.9300 9.9400 9.9500 9.9600
9.9700 9.9800 9.9900

Columns 1001 through 1010

10.0000 10.0100 10.0200 10.0300 10.0400 10.0500 10.0600
10.0700 10.0800 10.0900

Columns 1011 through 1020

10.1000 10.1100 10.1200 10.1300 10.1400 10.1500 10.1600
10.1700 10.1800 10.1900

Columns 1021 through 1030

10.2000 10.2100 10.2200 10.2300 10.2400 10.2500 10.2600
10.2700 10.2800 10.2900

Columns 1031 through 1040

10.3000 10.3100 10.3200 10.3300 10.3400 10.3500 10.3600
10.3700 10.3800 10.3900

Columns 1041 through 1050

10.4000 10.4100 10.4200 10.4300 10.4400 10.4500 10.4600
10.4700 10.4800 10.4900

Columns 1051 through 1060

10.5000 10.5100 10.5200 10.5300 10.5400 10.5500 10.5600
10.5700 10.5800 10.5900

Columns 1061 through 1070

10.6000 10.6100 10.6200 10.6300 10.6400 10.6500 10.6600
10.6700 10.6800 10.6900

Columns 1071 through 1080

10.7000 10.7100 10.7200 10.7300 10.7400 10.7500 10.7600
10.7700 10.7800 10.7900

Columns 1081 through 1090

10.8000 10.8100 10.8200 10.8300 10.8400 10.8500 10.8600
10.8700 10.8800 10.8900

Columns 1091 through 1100

10.9000 10.9100 10.9200 10.9300 10.9400 10.9500 10.9600
10.9700 10.9800 10.9900

Columns 1101 through 1110

11.0000 11.0100 11.0200 11.0300 11.0400 11.0500 11.0600
11.0700 11.0800 11.0900

Columns 1111 through 1120

11.1000 11.1100 11.1200 11.1300 11.1400 11.1500 11.1600
11.1700 11.1800 11.1900

Columns 1121 through 1130

11.2000 11.2100 11.2200 11.2300 11.2400 11.2500 11.2600
11.2700 11.2800 11.2900

Columns 1131 through 1140

11.3000 11.3100 11.3200 11.3300 11.3400 11.3500 11.3600
11.3700 11.3800 11.3900

Columns 1141 through 1150

11.4000 11.4100 11.4200 11.4300 11.4400 11.4500 11.4600
11.4700 11.4800 11.4900

Columns 1151 through 1160

11.5000 11.5100 11.5200 11.5300 11.5400 11.5500 11.5600
11.5700 11.5800 11.5900

Columns 1161 through 1170

11.6000 11.6100 11.6200 11.6300 11.6400 11.6500 11.6600
11.6700 11.6800 11.6900

Columns 1171 through 1180

11.7000 11.7100 11.7200 11.7300 11.7400 11.7500 11.7600
11.7700 11.7800 11.7900

Columns 1181 through 1190

11.8000 11.8100 11.8200 11.8300 11.8400 11.8500 11.8600
11.8700 11.8800 11.8900

Columns 1191 through 1200

11.9000 11.9100 11.9200 11.9300 11.9400 11.9500 11.9600
11.9700 11.9800 11.9900

Columns 1201 through 1210

12.0000 12.0100 12.0200 12.0300 12.0400 12.0500 12.0600
12.0700 12.0800 12.0900

Columns 1211 through 1220

12.1000 12.1100 12.1200 12.1300 12.1400 12.1500 12.1600
12.1700 12.1800 12.1900

Columns 1221 through 1230

12.2000 12.2100 12.2200 12.2300 12.2400 12.2500 12.2600
12.2700 12.2800 12.2900

Columns 1231 through 1240

12.3000 12.3100 12.3200 12.3300 12.3400 12.3500 12.3600
12.3700 12.3800 12.3900

Columns 1241 through 1250

12.4000 12.4100 12.4200 12.4300 12.4400 12.4500 12.4600
12.4700 12.4800 12.4900

Columns 1251 through 1260

12.5000 12.5100 12.5200 12.5300 12.5400 12.5500 12.5600
12.5700 12.5800 12.5900

Columns 1261 through 1270

12.6000 12.6100 12.6200 12.6300 12.6400 12.6500 12.6600
12.6700 12.6800 12.6900

Columns 1271 through 1280

12.7000 12.7100 12.7200 12.7300 12.7400 12.7500 12.7600
12.7700 12.7800 12.7900

Columns 1281 through 1290

12.8000 12.8100 12.8200 12.8300 12.8400 12.8500 12.8600
12.8700 12.8800 12.8900

Columns 1291 through 1300

12.9000 12.9100 12.9200 12.9300 12.9400 12.9500 12.9600
12.9700 12.9800 12.9900

Columns 1301 through 1310

13.0000 13.0100 13.0200 13.0300 13.0400 13.0500 13.0600
13.0700 13.0800 13.0900

Columns 1311 through 1320

13.1000 13.1100 13.1200 13.1300 13.1400 13.1500 13.1600
13.1700 13.1800 13.1900

Columns 1321 through 1330

13.2000 13.2100 13.2200 13.2300 13.2400 13.2500 13.2600
13.2700 13.2800 13.2900

Columns 1331 through 1340

13.3000 13.3100 13.3200 13.3300 13.3400 13.3500 13.3600
13.3700 13.3800 13.3900

Columns 1341 through 1350

13.4000 13.4100 13.4200 13.4300 13.4400 13.4500 13.4600
13.4700 13.4800 13.4900

Columns 1351 through 1360

13.5000 13.5100 13.5200 13.5300 13.5400 13.5500 13.5600
13.5700 13.5800 13.5900

Columns 1361 through 1370

13.6000 13.6100 13.6200 13.6300 13.6400 13.6500 13.6600
13.6700 13.6800 13.6900

Columns 1371 through 1380

13.7000 13.7100 13.7200 13.7300 13.7400 13.7500 13.7600
13.7700 13.7800 13.7900

Columns 1381 through 1390

13.8000 13.8100 13.8200 13.8300 13.8400 13.8500 13.8600
13.8700 13.8800 13.8900

Columns 1391 through 1400

13.9000 13.9100 13.9200 13.9300 13.9400 13.9500 13.9600
13.9700 13.9800 13.9900

Columns 1401 through 1410

14.0000 14.0100 14.0200 14.0300 14.0400 14.0500 14.0600
14.0700 14.0800 14.0900

Columns 1411 through 1420

14.1000 14.1100 14.1200 14.1300 14.1400 14.1500 14.1600
14.1700 14.1800 14.1900

Columns 1421 through 1430

14.2000 14.2100 14.2200 14.2300 14.2400 14.2500 14.2600
14.2700 14.2800 14.2900

Columns 1431 through 1440

14.3000 14.3100 14.3200 14.3300 14.3400 14.3500 14.3600
14.3700 14.3800 14.3900

Columns 1441 through 1450

14.4000 14.4100 14.4200 14.4300 14.4400 14.4500 14.4600
14.4700 14.4800 14.4900

Columns 1451 through 1460

14.5000 14.5100 14.5200 14.5300 14.5400 14.5500 14.5600
14.5700 14.5800 14.5900

Columns 1461 through 1470

14.6000 14.6100 14.6200 14.6300 14.6400 14.6500 14.6600
14.6700 14.6800 14.6900

Columns 1471 through 1480

14.7000 14.7100 14.7200 14.7300 14.7400 14.7500 14.7600
14.7700 14.7800 14.7900

Columns 1481 through 1490

14.8000 14.8100 14.8200 14.8300 14.8400 14.8500 14.8600
14.8700 14.8800 14.8900

Columns 1491 through 1500

14.9000 14.9100 14.9200 14.9300 14.9400 14.9500 14.9600
14.9700 14.9800 14.9900

Column 1501

15.0000

z =

[1/10, cos(1/100)/10 + exp(-1/50)/10 - exp(-3/100)/10 + sin(1/100)/10,
cos(1/50)/10 + exp(-1/25)/10 - exp(-3/50)/10 + sin(1/50)/10,
cos(3/100)/10 + exp(-3/50)/10 - exp(-9/100)/10 + sin(3/100)/10,
cos(1/25)/10 + exp(-2/25)/10 - exp(-3/25)/10 + sin(1/25)/10,
cos(1/20)/10 + exp(-1/10)/10 - exp(3/20)/10 + sin(1/20)/10, cos(3/50)/10
+ exp(-3/25)/10 - exp(-9/50)/10 + sin(3/50)/10, cos(7/100)/10 + exp(-
7/50)/10 - exp(-21/100)/10 + sin(7/100)/10, cos(2/25)/10 + exp(-
4/25)/10 - exp(-6/25)/10 + sin(2/25)/10, cos(9/100)/10 + exp(-9/50)/10 -
exp(-27/100)/10 + sin(9/100)/10, cos(1/10)/10 + exp(1/5)/10 - exp(-
3/10)/10 + sin(1/10)/10, cos(11/100)/10 + exp(-11/50)/10 - exp(-
33/100)/10 + sin(11/100)/10, cos(3/25)/10 + exp(-6/25)/10 - exp(-
9/25)/10 + sin(3/25)/10, cos(13/100)/10 + exp(13/50)/10 - exp(-
39/100)/10 + sin(13/100)/10, cos(7/50)/10 + exp(-7/25)/10 - exp(-
21/50)/10 + sin(7/50)/10, cos(3/20)/10 + exp(-3/10)/10 - exp(-9/20)/10 +
sin(3/20)/10, cos(4/25)/10 + exp(-8/25)/10 - exp(-12/25)/10 +
sin(4/25)/10, cos(17/100)/10 + exp(-17/50)/10 - exp(-51/100)/10 +
sin(17/100)/10, cos(9/50)/10 + exp(-9/25)/10 - exp(-27/50)/10 +
sin(9/50)/10, cos(19/100)/10 + exp(-19/50)/10 - exp(
57/100)/10 + sin(19/100)/10, cos(1/5)/10 + exp(-2/5)/10 - exp(-3/5)/10 +
sin(1/5)/10, cos(21/100)/10 + exp(-21/50)/10 - exp(-63/100)/10 +
sin(21/100)/10, cos(11/50)/10 + exp(-11/25)/10 - exp(-33/50)/10 +
sin(11/50)/10, cos(23/100)/10 + exp(-23/50)/10 - exp(-69/100)/10 +
sin(23/100)/10, cos(6/25)/10 + exp(-12/25)/10 - exp(-18/25)/10 +
sin(6/25)/10, cos(1/4)/10 + exp(-1/2)/10 - exp(-3/4)/10 + sin(1/4)/10,
cos(13/50)/10 + exp(-13/25)/10 - exp(-39/50)/10 + sin(13/50)/10,
cos(27/100)/10 + exp(-27/50)/10 - exp(-81/100)/10 + sin(27/100)/10,
cos(7/25)/10 + exp(-14/25)/10 - exp(-21/25)/10 + sin(7/25)/10,
cos(29/100)/10 + exp(-29/50)/10 - exp(-87/100)/10 + sin(29/100)/10,

$\cos(3/10)/10 + \exp(-3/5)/10 - \exp(9/10)/10 + \sin(3/10)/10,$
 $\cos(31/100)/10 + \exp(-31/50)/10 - \exp(-93/100)/10 + \sin(31/100)/10,$
 $\cos(8/25)/10 + \exp(-16/25)/10 - \exp(-24/25)/10 + \sin(8/25)/10,$
 $\cos(33/100)/10 + \exp(-33/50)/10 - \exp(99/100)/10 + \sin(33/100)/10,$
 $\cos(17/50)/10 + \exp(-17/25)/10 - \exp(-51/50)/10 + \sin(17/50)/10,$
 $\cos(7/20)/10 + \exp(-7/10)/10 - \exp(-21/20)/10 + \sin(7/20)/10,$
 $\cos(9/25)/10 + \exp(-18/25)/10 - \exp(27/25)/10 + \sin(9/25)/10,$
 $\cos(37/100)/10 + \exp(-37/50)/10 - \exp(-111/100)/10 + \sin(37/100)/10,$
 $\cos(19/50)/10 + \exp(-19/25)/10 - \exp(-57/50)/10 + \sin(19/50)/10,$
 $\cos(39/100)/10 + \exp(-39/50)/10 - \exp(-117/100)/10 + \sin(39/100)/10,$
 $\cos(2/5)/10 + \exp(-4/5)/10 - \exp(-6/5)/10 + \sin(2/5)/10, \cos(41/100)/10$
 $+ \exp(-41/50)/10 - \exp(-123/100)/10 + \sin(41/100)/10, \cos(21/50)/10 +$
 $\exp(-21/25)/10 - \exp(-63/50)/10 + \sin(21/50)/10, \cos(43/100)/10 + \exp(-$
 $43/50)/10 - \exp(-129/100)/10 + \sin(43/100)/10, \cos(11/25)/10 + \exp(-$
 $22/25)/10 - \exp(-33/25)/10 + \sin(11/25)/10, \cos(9/20)/10 + \exp(-$
 $9/10)/10 - \exp(27/20)/10 + \sin(9/20)/10, \cos(23/50)/10 + \exp(-23/25)/10$
 $- \exp(-69/50)/10 + \sin(23/50)/10, \cos(47/100)/10 + \exp(-47/50)/10 -$
 $\exp(-141/100)/10 + \sin(47/100)/10, \cos(12/25)/10 + \exp(-24/25)/10 -$
 $\exp(-36/25)/10 + \sin(12/25)/10, \cos(49/100)/10 + \exp(-49/50)/10 - \exp(-$
 $147/100)/10 + \sin(49/100)/10, \cos(1/2)/10 + \exp(-1)/10 - \exp(-3/2)/10 +$
 $\sin(1/2)/10, \cos(51/100)/10 + \exp(-51/50)/10 - \exp(153/100)/10 +$
 $\sin(51/100)/10, \cos(13/25)/10 + \exp(-26/25)/10 - \exp(-39/25)/10 +$
 $\sin(13/25)/10, \cos(53/100)/10 + \exp(-53/50)/10 - \exp(-159/100)/10 +$
 $\sin(53/100)/10, \cos(27/50)/10 + \exp(-27/25)/10 - \exp(-81/50)/10 +$
 $\sin(27/50)/10, \cos(11/20)/10 + \exp(-11/10)/10 - \exp(-33/20)/10 +$
 $\sin(11/20)/10, \cos(14/25)/10 + \exp(-28/25)/10 - \exp(-42/25)/10 +$
 $\sin(14/25)/10, \cos(57/100)/10 + \exp(-57/50)/10 - \exp(-171/100)/10 +$
 $\sin(57/100)/10, \cos(29/50)/10 + \exp(-29/25)/10 - \exp(-87/50)/10 +$
 $\sin(29/50)/10, \cos(59/100)/10 + \exp(-59/50)/10 - \exp(-177/100)/10 +$
 $\sin(59/100)/10, \cos(3/5)/10 + \exp(-6/5)/10 - \exp(9/5)/10 + \sin(3/5)/10,$
 $\cos(61/100)/10 + \exp(-61/50)/10 - \exp(-183/100)/10 + \sin(61/100)/10,$
 $\cos(31/50)/10 + \exp(-31/25)/10 - \exp(-93/50)/10 + \sin(31/50)/10,$

$\cos(63/100)/10 + \exp(-63/50)/10 - \exp(-189/100)/10 + \sin(63/100)/10,$
 $\cos(16/25)/10 + \exp(-32/25)/10 - \exp(-48/25)/10 + \sin(16/25)/10,$
 $\cos(13/20)/10 + \exp(-13/10)/10 - \exp(-39/20)/10 + \sin(13/20)/10,$
 $\cos(33/50)/10 + \exp(-33/25)/10 - \exp(99/50)/10 + \sin(33/50)/10,$
 $\cos(67/100)/10 + \exp(-67/50)/10 - \exp(-201/100)/10 + \sin(67/100)/10,$
 $\cos(17/25)/10 + \exp(-34/25)/10 - \exp(-51/25)/10 + \sin(17/25)/10,$
 $\cos(69/100)/10 + \exp(-69/50)/10 - \exp(-207/100)/10 + \sin(69/100)/10,$
 $\cos(7/10)/10 + \exp(-7/5)/10 - \exp(-21/10)/10 + \sin(7/10)/10,$
 $\cos(71/100)/10 + \exp(-71/50)/10 - \exp(-213/100)/10 + \sin(71/100)/10,$
 $\cos(18/25)/10 + \exp(-36/25)/10 - \exp(-54/25)/10 + \sin(18/25)/10,$
 $\cos(73/100)/10 + \exp(-73/50)/10 - \exp(-219/100)/10 + \sin(73/100)/10,$
 $\cos(37/50)/10 + \exp(-37/25)/10 - \exp(-111/50)/10 + \sin(37/50)/10,$
 $\cos(3/4)/10 + \exp(-3/2)/10 - \exp(9/4)/10 + \sin(3/4)/10, \cos(19/25)/10 +$
 $\exp(-38/25)/10 - \exp(-57/25)/10 + \sin(19/25)/10, \cos(77/100)/10 + \exp(-$
 $77/50)/10 - \exp(-231/100)/10 + \sin(77/100)/10, \cos(39/50)/10 + \exp(-$
 $39/25)/10 - \exp(117/50)/10 + \sin(39/50)/10, \cos(79/100)/10 + \exp(-$
 $79/50)/10 - \exp(-237/100)/10 + \sin(79/100)/10, \cos(4/5)/10 + \exp(-$
 $8/5)/10 - \exp(-12/5)/10 + \sin(4/5)/10, \cos(81/100)/10 + \exp(-81/50)/10 -$
 $\exp(243/100)/10 + \sin(81/100)/10, \cos(41/50)/10 + \exp(-41/25)/10 -$
 $\exp(-123/50)/10 + \sin(41/50)/10, \cos(83/100)/10 + \exp(-83/50)/10 -$
 $\exp(-249/100)/10 + \sin(83/100)/10, \cos(21/25)/10 + \exp(-42/25)/10 -$
 $\exp(-63/25)/10 + \sin(21/25)/10, \cos(17/20)/10 + \exp(-17/10)/10 - \exp(-$
 $51/20)/10 + \sin(17/20)/10,$

$\cos(43/50)/10 + \exp(-43/25)/10 - \exp(-129/50)/10 + \sin(43/50)/10,$
 $\cos(87/100)/10 + \exp(-87/50)/10 - \exp(-261/100)/10 + \sin(87/100)/10,$
 $\cos(22/25)/10 + \exp(-44/25)/10 - \exp(-66/25)/10 + \sin(22/25)/10,$
 $\cos(89/100)/10 + \exp(-89/50)/10 - \exp(-267/100)/10 + \sin(89/100)/10,$
 $\cos(9/10)/10 + \exp(-9/5)/10 - \exp(-27/10)/10 + \sin(9/10)/10,$
 $\cos(91/100)/10 + \exp(-91/50)/10 - \exp(-273/100)/10 + \sin(91/100)/10,$
 $\cos(23/25)/10 + \exp(-46/25)/10 - \exp(-69/25)/10 + \sin(23/25)/10,$
 $\cos(93/100)/10 + \exp(-93/50)/10 - \exp(-279/100)/10 + \sin(93/100)/10,$
 $\cos(47/50)/10 + \exp(-47/25)/10 - \exp(-141/50)/10 + \sin(47/50)/10,$

$\cos(19/20)/10 + \exp(-19/10)/10 - \exp(-57/20)/10 + \sin(19/20)/10,$
 $\cos(24/25)/10 + \exp(-48/25)/10 - \exp(72/25)/10 + \sin(24/25)/10,$
 $\cos(97/100)/10 + \exp(-97/50)/10 - \exp(-291/100)/10 + \sin(97/100)/10,$
 $\cos(49/50)/10 + \exp(-49/25)/10 - \exp(-147/50)/10 + \sin(49/50)/10,$
 $\cos(99/100)/10 + \exp(-99/50)/10 - \exp(-297/100)/10 + \sin(99/100)/10,$
 $\cos(1)/10 + \exp(-2)/10 - \exp(-3)/10 + \sin(1)/10, \cos(101/100)/10 + \exp(-$
 $101/50)/10 - \exp(-303/100)/10 + \sin(101/100)/10, \cos(51/50)/10 + \exp(-$
 $51/25)/10 - \exp(153/50)/10 + \sin(51/50)/10, \cos(103/100)/10 + \exp(-$
 $103/50)/10 - \exp(-309/100)/10 + \sin(103/100)/10, \cos(26/25)/10 + \exp(-$
 $52/25)/10 - \exp(-78/25)/10 + \sin(26/25)/10, \cos(21/20)/10 + \exp(-$
 $21/10)/10 - \exp(63/20)/10 + \sin(21/20)/10, \cos(53/50)/10 + \exp(-$
 $53/25)/10 - \exp(-159/50)/10 + \sin(53/50)/10, \cos(107/100)/10 + \exp(-$
 $107/50)/10 - \exp(-321/100)/10 + \sin(107/100)/10, \cos(27/25)/10 +$
 $\exp(54/25)/10 - \exp(-81/25)/10 + \sin(27/25)/10, \cos(109/100)/10 + \exp(-$
 $109/50)/10 - \exp(-327/100)/10 + \sin(109/100)/10, \cos(11/10)/10 + \exp(-$
 $11/5)/10 - \exp(-33/10)/10 + \sin(11/10)/10, \cos(111/100)/10 + \exp(-$
 $111/50)/10 - \exp(-333/100)/10 + \sin(111/100)/10, \cos(28/25)/10 + \exp(-$
 $56/25)/10 - \exp(-84/25)/10 + \sin(28/25)/10, \cos(113/100)/10 + \exp(-$
 $113/50)/10 - \exp(-339/100)/10 + \sin(113/100)/10, \cos(57/50)/10 + \exp(-$
 $57/25)/10 - \exp(-171/50)/10 + \sin(57/50)/10, \cos(23/20)/10 + \exp(-$
 $23/10)/10 - \exp(-69/20)/10 + \sin(23/20)/10, \cos(29/25)/10 + \exp(-$
 $58/25)/10 - \exp(-87/25)/10 + \sin(29/25)/10, \cos(117/100)/10 + \exp(-$
 $117/50)/10 - \exp(-351/100)/10 + \sin(117/100)/10, \cos(59/50)/10 +$
 $\exp(59/25)/10 - \exp(-177/50)/10 + \sin(59/50)/10, \cos(119/100)/10 +$
 $\exp(-119/50)/10 - \exp(-357/100)/10 + \sin(119/100)/10, \cos(6/5)/10 +$
 $\exp(-12/5)/10 - \exp(-18/5)/10 + \sin(6/5)/10, \cos(121/100)/10 +$
 $\exp(121/50)/10 - \exp(-363/100)/10 + \sin(121/100)/10, \cos(61/50)/10 +$
 $\exp(-61/25)/10 - \exp(-183/50)/10 + \sin(61/50)/10, \cos(123/100)/10 +$
 $\exp(-123/50)/10 - \exp(-369/100)/10 + \sin(123/100)/10, \cos(31/25)/10 +$
 $\exp(-62/25)/10 - \exp(-93/25)/10 + \sin(31/25)/10, \cos(5/4)/10 + \exp(-$
 $5/2)/10 - \exp(-15/4)/10 + \sin(5/4)/10, \cos(63/50)/10 + \exp(-63/25)/10 -$
 $\exp(-189/50)/10 + \sin(63/50)/10, \cos(127/100)/10 + \exp(127/50)/10 -$

$\exp(-381/100)/10 + \sin(127/100)/10, \cos(32/25)/10 + \exp(-64/25)/10 -$
 $\exp(-96/25)/10 + \sin(32/25)/10, \cos(129/100)/10 + \exp(-129/50)/10 -$
 $\exp(-387/100)/10 + \sin(129/100)/10, \cos(13/10)/10 + \exp(-13/5)/10 -$
 $\exp(-39/10)/10 + \sin(13/10)/10, \cos(131/100)/10 + \exp(-131/50)/10 -$
 $\exp(393/100)/10 + \sin(131/100)/10, \cos(33/25)/10 + \exp(-66/25)/10 -$
 $\exp(-99/25)/10 + \sin(33/25)/10, \cos(133/100)/10 + \exp(-133/50)/10 -$
 $\exp(-399/100)/10 + \sin(133/100)/10, \cos(67/50)/10 + \exp(67/25)/10 -$
 $\exp(-201/50)/10 + \sin(67/50)/10, \cos(27/20)/10 + \exp(-27/10)/10 - \exp(-$
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 $102/25)/10 + \sin(34/25)/10, \cos(137/100)/10 + \exp(-137/50)/10 - \exp(-$
 $411/100)/10 + \sin(137/100)/10, \cos(69/50)/10 + \exp(-69/25)/10 -$
 $\exp(207/50)/10 + \sin(69/50)/10, \cos(139/100)/10 + \exp(-139/50)/10 -$
 $\exp(-417/100)/10 + \sin(139/100)/10, \cos(7/5)/10 + \exp(-14/5)/10 - \exp(-$
 $21/5)/10 + \sin(7/5)/10, \cos(141/100)/10 + \exp(-141/50)/10 -$
 $\exp(423/100)/10 + \sin(141/100)/10, \cos(71/50)/10 + \exp(-71/25)/10 -$
 $\exp(-213/50)/10 + \sin(71/50)/10, \cos(143/100)/10 + \exp(-143/50)/10 -$
 $\exp(-429/100)/10 + \sin(143/100)/10, \cos(36/25)/10 + \exp(72/25)/10 -$
 $\exp(-108/25)/10 + \sin(36/25)/10, \cos(29/20)/10 + \exp(-29/10)/10 - \exp(-$
 $87/20)/10 + \sin(29/20)/10, \cos(73/50)/10 + \exp(-73/25)/10 - \exp(-$
 $219/50)/10 + \sin(73/50)/10, \cos(147/100)/10 + \exp(-147/50)/10 - \exp(-$
 $441/100)/10 + \sin(147/100)/10, \cos(37/25)/10 + \exp(-74/25)/10 -$
 $\exp(111/25)/10 + \sin(37/25)/10, \cos(149/100)/10 + \exp(-149/50)/10 -$
 $\exp(-447/100)/10 + \sin(149/100)/10,$

$\cos(3/2)/10 + \exp(-3)/10 - \exp(-9/2)/10 + \sin(3/2)/10, \cos(151/100)/10 +$
 $\exp(-151/50)/10 - \exp(453/100)/10 + \sin(151/100)/10, \cos(38/25)/10 +$
 $\exp(-76/25)/10 - \exp(-114/25)/10 + \sin(38/25)/10, \cos(153/100)/10 +$
 $\exp(-153/50)/10 - \exp(-459/100)/10 + \sin(153/100)/10, \cos(77/50)/10 +$
 $\exp(77/25)/10 - \exp(-231/50)/10 + \sin(77/50)/10, \cos(31/20)/10 + \exp(-$
 $31/10)/10 - \exp(-93/20)/10 + \sin(31/20)/10, \cos(39/25)/10 + \exp(-$
 $78/25)/10 - \exp(-117/25)/10 + \sin(39/25)/10, \cos(157/100)/10 + \exp(-$
 $157/50)/10 - \exp(-471/100)/10 + \sin(157/100)/10, \cos(79/50)/10 + \exp(-$
 $79/25)/10 - \exp(237/50)/10 + \sin(79/50)/10, \cos(159/100)/10 + \exp(-$

159/50)/10 - exp(-477/100)/10 + sin(159/100)/10, cos(8/5)/10 + exp(-16/5)/10 - exp(-24/5)/10 + sin(8/5)/10, cos(161/100)/10 + exp(-161/50)/10 - exp(483/100)/10 + sin(161/100)/10, cos(81/50)/10 + exp(-81/25)/10 - exp(-243/50)/10 + sin(81/50)/10, cos(163/100)/10 + exp(-163/50)/10 - exp(-489/100)/10 + sin(163/100)/10, cos(41/25)/10 + exp(82/25)/10 - exp(-123/25)/10 + sin(41/25)/10, cos(33/20)/10 + exp(-33/10)/10 - exp(-99/20)/10 + sin(33/20)/10, cos(83/50)/10 + exp(-83/25)/10 - exp(-249/50)/10 + sin(83/50)/10, cos(167/100)/10 + exp(-167/50)/10 - exp(-501/100)/10 + sin(167/100)/10, cos(42/25)/10 + exp(-84/25)/10 - exp(126/25)/10 + sin(42/25)/10, cos(169/100)/10 + exp(-169/50)/10 - exp(-507/100)/10 + sin(169/100)/10, cos(17/10)/10 + exp(-17/5)/10 - exp(-51/10)/10 + sin(17/10)/10, cos(171/100)/10 + exp(-171/50)/10 - exp(-513/100)/10 + sin(171/100)/10, cos(43/25)/10 + exp(-86/25)/10 - exp(-129/25)/10 + sin(43/25)/10, cos(173/100)/10 + exp(-173/50)/10 - exp(-519/100)/10 + sin(173/100)/10, cos(87/50)/10 + exp(87/25)/10 - exp(-261/50)/10 + sin(87/50)/10, cos(7/4)/10 + exp(-7/2)/10 - exp(-21/4)/10 + sin(7/4)/10, cos(44/25)/10 + exp(-88/25)/10 - exp(-132/25)/10 + sin(44/25)/10, cos(177/100)/10 + exp(-177/50)/10 - exp(-531/100)/10 + sin(177/100)/10, cos(89/50)/10 + exp(-89/25)/10 - exp(-267/50)/10 + sin(89/50)/10, cos(179/100)/10 + exp(-179/50)/10 - exp(-537/100)/10 + sin(179/100)/10, cos(9/5)/10 + exp(-18/5)/10 - exp(-27/5)/10 + sin(9/5)/10, cos(181/100)/10 + exp(-181/50)/10 - exp(-543/100)/10 + sin(181/100)/10, cos(91/50)/10 + exp(-91/25)/10 - exp(-273/50)/10 + sin(91/50)/10, cos(183/100)/10 + exp(-183/50)/10 - exp(-549/100)/10 + sin(183/100)/10, cos(46/25)/10 + exp(-92/25)/10 - exp(-138/25)/10 + sin(46/25)/10, cos(37/20)/10 + exp(-37/10)/10 - exp(-111/20)/10 + sin(37/20)/10, cos(93/50)/10 + exp(-93/25)/10 - exp(-279/50)/10 + sin(93/50)/10, cos(187/100)/10 + exp(-187/50)/10 - exp(-561/100)/10 + sin(187/100)/10, cos(47/25)/10 + exp(-94/25)/10 - exp(-141/25)/10 + sin(47/25)/10, cos(189/100)/10 + exp(-189/50)/10 - exp(-567/100)/10 + sin(189/100)/10, cos(19/10)/10 + exp(-19/5)/10 - exp(-57/10)/10 + sin(19/10)/10, cos(191/100)/10 + exp(-191/50)/10 - exp(-

$573/100)/10 + \sin(191/100)/10, \cos(48/25)/10 + \exp(-96/25)/10 - \exp(-144/25)/10 + \sin(48/25)/10, \cos(193/100)/10 + \exp(-193/50)/10 - \exp(-579/100)/10 + \sin(193/100)/10, \cos(97/50)/10 + \exp(-97/25)/10 - \exp(-291/50)/10 + \sin(97/50)/10, \cos(39/20)/10 + \exp(-39/10)/10 - \exp(-117/20)/10 + \sin(39/20)/10, \cos(49/25)/10 + \exp(-98/25)/10 - \exp(-147/25)/10 + \sin(49/25)/10, \cos(197/100)/10 + \exp(-197/50)/10 - \exp(-591/100)/10 + \sin(197/100)/10, \cos(99/50)/10 + \exp(-99/25)/10 - \exp(-297/50)/10 + \sin(99/50)/10, \cos(199/100)/10 + \exp(-199/50)/10 - \exp(-597/100)/10 + \sin(199/100)/10, \cos(2)/10 + \exp(-4)/10 - \exp(-6)/10 + \sin(2)/10, \cos(201/100)/10 + \exp(-201/50)/10 - \exp(-603/100)/10 + \sin(201/100)/10, \cos(101/50)/10 + \exp(101/25)/10 - \exp(-303/50)/10 + \sin(101/50)/10, \cos(203/100)/10 + \exp(-203/50)/10 - \exp(-609/100)/10 + \sin(203/100)/10, \cos(51/25)/10 + \exp(-102/25)/10 - \exp(-153/25)/10 + \sin(51/25)/10, \cos(41/20)/10 + \exp(-41/10)/10 - \exp(-123/20)/10 + \sin(41/20)/10, \cos(103/50)/10 + \exp(-103/25)/10 - \exp(-309/50)/10 + \sin(103/50)/10, \cos(207/100)/10 + \exp(-207/50)/10 - \exp(-621/100)/10 + \sin(207/100)/10, \cos(52/25)/10 + \exp(-104/25)/10 - \exp(-156/25)/10 + \sin(52/25)/10, \cos(209/100)/10 + \exp(-209/50)/10 - \exp(-627/100)/10 + \sin(209/100)/10, \cos(21/10)/10 + \exp(-21/5)/10 - \exp(-63/10)/10 + \sin(21/10)/10, \cos(211/100)/10 + \exp(-211/50)/10 - \exp(-633/100)/10 + \sin(211/100)/10, \cos(53/25)/10 + \exp(106/25)/10 - \exp(-159/25)/10 + \sin(53/25)/10, \cos(213/100)/10 + \exp(-213/50)/10 - \exp(-639/100)/10 + \sin(213/100)/10, \cos(107/50)/10 + \exp(-107/25)/10 - \exp(-321/50)/10 + \sin(107/50)/10, \cos(43/20)/10 + \exp(-43/10)/10 - \exp(-129/20)/10 + \sin(43/20)/10, \cos(54/25)/10 + \exp(-108/25)/10 - \exp(-162/25)/10 + \sin(54/25)/10, \cos(217/100)/10 + \exp(-217/50)/10 - \exp(-651/100)/10 + \sin(217/100)/10, \cos(109/50)/10 + \exp(-109/25)/10 - \exp(-327/50)/10 + \sin(109/50)/10, \cos(219/100)/10 + \exp(219/50)/10 - \exp(-657/100)/10 + \sin(219/100)/10, \cos(11/5)/10 + \exp(-22/5)/10 - \exp(-33/5)/10 + \sin(11/5)/10, \cos(221/100)/10 + \exp(-221/50)/10 - \exp(-663/100)/10 + \sin(221/100)/10, \cos(111/50)/10 + \exp(-111/25)/10 - \exp(-333/50)/10 + \sin(111/50)/10, \cos(223/100)/10 + \exp(-223/50)/10 - \exp(669/100)/10 +$

$\sin(223/100)/10, \cos(56/25)/10 + \exp(-112/25)/10 - \exp(-168/25)/10 +$
 $\sin(56/25)/10, \cos(9/4)/10 + \exp(-9/2)/10 - \exp(-27/4)/10 + \sin(9/4)/10,$
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 $\cos(227/100)/10 + \exp(-227/50)/10 - \exp(-681/100)/10 +$
 $\sin(227/100)/10, \cos(57/25)/10 + \exp(-114/25)/10 - \exp(-171/25)/10 +$
 $\sin(57/25)/10, \cos(229/100)/10 + \exp(-229/50)/10 - \exp(-687/100)/10 +$
 $\sin(229/100)/10, \cos(23/10)/10 + \exp(-23/5)/10 - \exp(-69/10)/10 +$
 $\sin(23/10)/10, \cos(231/100)/10 + \exp(-231/50)/10 - \exp(-693/100)/10 +$
 $\sin(231/100)/10, \cos(58/25)/10 + \exp(116/25)/10 - \exp(-174/25)/10 +$
 $\sin(58/25)/10, \cos(233/100)/10 + \exp(-233/50)/10 - \exp(-699/100)/10 +$
 $\sin(233/100)/10, \cos(117/50)/10 + \exp(-117/25)/10 - \exp(-351/50)/10 +$
 $\sin(117/50)/10, \cos(47/20)/10 + \exp(-47/10)/10 - \exp(-141/20)/10 +$
 $\sin(47/20)/10, \cos(59/25)/10 + \exp(-118/25)/10 - \exp(-177/25)/10 +$
 $\sin(59/25)/10, \cos(237/100)/10 + \exp(-237/50)/10 - \exp(-711/100)/10 +$
 $\sin(237/100)/10, \cos(119/50)/10 + \exp(-119/25)/10 - \exp(-357/50)/10 +$
 $\sin(119/50)/10, \cos(239/100)/10 + \exp(239/50)/10 - \exp(-717/100)/10 +$
 $\sin(239/100)/10, \cos(12/5)/10 + \exp(-24/5)/10 - \exp(-36/5)/10 +$
 $\sin(12/5)/10, \cos(241/100)/10 + \exp(-241/50)/10 - \exp(-723/100)/10 +$
 $\sin(241/100)/10, \cos(121/50)/10 + \exp(-121/25)/10 - \exp(-363/50)/10 +$
 $\sin(121/50)/10, \cos(243/100)/10 + \exp(-243/50)/10 - \exp(729/100)/10 +$
 $\sin(243/100)/10, \cos(61/25)/10 + \exp(-122/25)/10 - \exp(-183/25)/10 +$
 $\sin(61/25)/10, \cos(49/20)/10 + \exp(-49/10)/10 - \exp(-147/20)/10 +$
 $\sin(49/20)/10, \cos(123/50)/10 + \exp(-123/25)/10 - \exp(-369/50)/10 +$
 $\sin(123/50)/10, \cos(247/100)/10 + \exp(-247/50)/10 - \exp(-741/100)/10 +$
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 $\sin(62/25)/10, \cos(249/100)/10 + \exp(-249/50)/10 - \exp(-747/100)/10 +$
 $\sin(249/100)/10, \cos(5/2)/10 + \exp(-5)/10 - \exp(-15/2)/10 + \sin(5/2)/10,$
 $\cos(251/100)/10 + \exp(-251/50)/10 - \exp(-753/100)/10 +$
 $\sin(251/100)/10, \cos(63/25)/10 + \exp(-126/25)/10 - \exp(-189/25)/10 +$
 $\sin(63/25)/10, \cos(253/100)/10 + \exp(-253/50)/10 - \exp(759/100)/10 +$
 $\sin(253/100)/10, \cos(127/50)/10 + \exp(-127/25)/10 - \exp(-381/50)/10 +$
 $\sin(127/50)/10, \cos(51/20)/10 + \exp(-51/10)/10 - \exp(-153/20)/10 +$

$\sin(51/20)/10, \cos(64/25)/10 + \exp(-128/25)/10 - \exp(-192/25)/10 +$
 $\sin(64/25)/10, \cos(257/100)/10 + \exp(-257/50)/10 - \exp(-771/100)/10 +$
 $\sin(257/100)/10, \cos(129/50)/10 + \exp(-129/25)/10 - \exp(-387/50)/10 +$
 $\sin(129/50)/10, \cos(259/100)/10 + \exp(-259/50)/10 - \exp(-777/100)/10 +$
 $\sin(259/100)/10, \cos(13/5)/10 + \exp(-26/5)/10 - \exp(-39/5)/10 +$
 $\sin(13/5)/10, \cos(261/100)/10 + \exp(-261/50)/10 - \exp(-783/100)/10 +$
 $\sin(261/100)/10, \cos(131/50)/10 + \exp(-131/25)/10 - \exp(-393/50)/10 +$
 $\sin(131/50)/10, \cos(263/100)/10 + \exp(-263/50)/10 - \exp(-789/100)/10 +$
 $\sin(263/100)/10, \cos(66/25)/10 + \exp(132/25)/10 - \exp(-198/25)/10 +$
 $\sin(66/25)/10, \cos(53/20)/10 + \exp(-53/10)/10 - \exp(-159/20)/10 +$
 $\sin(53/20)/10, \cos(133/50)/10 + \exp(-133/25)/10 - \exp(-399/50)/10 +$
 $\sin(133/50)/10, \cos(267/100)/10 + \exp(-267/50)/10 - \exp(-801/100)/10 +$
 $\sin(267/100)/10, \cos(67/25)/10 + \exp(-134/25)/10 - \exp(201/25)/10 +$
 $\sin(67/25)/10, \cos(269/100)/10 + \exp(-269/50)/10 - \exp(-807/100)/10 +$
 $\sin(269/100)/10, \cos(27/10)/10 + \exp(-27/5)/10 - \exp(-81/10)/10 +$
 $\sin(27/10)/10, \cos(271/100)/10 + \exp(-271/50)/10 - \exp(-813/100)/10 +$
 $\sin(271/100)/10, \cos(68/25)/10 + \exp(-136/25)/10 - \exp(-204/25)/10 +$
 $\sin(68/25)/10, \cos(273/100)/10 + \exp(-273/50)/10 - \exp(-819/100)/10 +$
 $\sin(273/100)/10, \cos(137/50)/10 + \exp(-137/25)/10 - \exp(-411/50)/10 +$
 $\sin(137/50)/10, \cos(11/4)/10 + \exp(-11/2)/10 -$

$\exp(-33/4)/10 + \sin(11/4)/10, \cos(69/25)/10 + \exp(-138/25)/10 - \exp(-$
 $207/25)/10 + \sin(69/25)/10, \cos(277/100)/10 + \exp(-277/50)/10 - \exp(-$
 $831/100)/10 + \sin(277/100)/10, \cos(139/50)/10 + \exp(139/25)/10 - \exp(-$
 $417/50)/10 + \sin(139/50)/10, \cos(279/100)/10 + \exp(-279/50)/10 - \exp(-$
 $837/100)/10 + \sin(279/100)/10, \cos(14/5)/10 + \exp(-28/5)/10 - \exp(-$
 $42/5)/10 + \sin(14/5)/10, \cos(281/100)/10 + \exp(281/50)/10 - \exp(-$
 $843/100)/10 + \sin(281/100)/10, \cos(141/50)/10 + \exp(-141/25)/10 -$
 $\exp(-423/50)/10 + \sin(141/50)/10, \cos(283/100)/10 + \exp(-283/50)/10 -$
 $\exp(-849/100)/10 + \sin(283/100)/10, \cos(71/25)/10 + \exp(-142/25)/10 -$
 $\exp(-213/25)/10 + \sin(71/25)/10, \cos(57/20)/10 + \exp(-57/10)/10 - \exp(-$
 $171/20)/10 + \sin(57/20)/10, \cos(143/50)/10 + \exp(-143/25)/10 - \exp(-$
 $429/50)/10 + \sin(143/50)/10, \cos(287/100)/10 + \exp(-287/50)/10 - \exp(-$

861/100)/10 + sin(287/100)/10, cos(72/25)/10 + exp(144/25)/10 - exp(-216/25)/10 + sin(72/25)/10, cos(289/100)/10 + exp(-289/50)/10 - exp(-867/100)/10 + sin(289/100)/10, cos(29/10)/10 + exp(-29/5)/10 - exp(-87/10)/10 + sin(29/10)/10, cos(291/100)/10 + exp(-291/50)/10 - exp(-873/100)/10 + sin(291/100)/10, cos(73/25)/10 + exp(-146/25)/10 - exp(219/25)/10 + sin(73/25)/10, cos(293/100)/10 + exp(-293/50)/10 - exp(-879/100)/10 + sin(293/100)/10, cos(147/50)/10 + exp(-147/25)/10 - exp(-441/50)/10 + sin(147/50)/10, cos(59/20)/10 + exp(-59/10)/10 - exp(-177/20)/10 + sin(59/20)/10, cos(74/25)/10 + exp(-148/25)/10 - exp(-222/25)/10 + sin(74/25)/10, cos(297/100)/10 + exp(-297/50)/10 - exp(-891/100)/10 + sin(297/100)/10, cos(149/50)/10 + exp(149/25)/10 - exp(-447/50)/10 + sin(149/50)/10, cos(299/100)/10 + exp(-299/50)/10 - exp(-897/100)/10 + sin(299/100)/10, cos(3)/10 + exp(-6)/10 - exp(-9)/10 + sin(3)/10, cos(301/100)/10 + exp(-301/50)/10 - exp(-903/100)/10 + sin(301/100)/10, cos(151/50)/10 + exp(-151/25)/10 - exp(-453/50)/10 + sin(151/50)/10, cos(303/100)/10 + exp(-303/50)/10 - exp(-909/100)/10 + sin(303/100)/10, cos(76/25)/10 + exp(-152/25)/10 - exp(-228/25)/10 + sin(76/25)/10, cos(61/20)/10 + exp(-61/10)/10 - exp(-183/20)/10 + sin(61/20)/10, cos(153/50)/10 + exp(-153/25)/10 - exp(-459/50)/10 + sin(153/50)/10, cos(307/100)/10 + exp(-307/50)/10 - exp(-921/100)/10 + sin(307/100)/10, cos(77/25)/10 + exp(154/25)/10 - exp(-231/25)/10 + sin(77/25)/10, cos(309/100)/10 + exp(-309/50)/10 - exp(-927/100)/10 + sin(309/100)/10, cos(31/10)/10 + exp(-31/5)/10 - exp(-93/10)/10 + sin(31/10)/10, cos(311/100)/10 + exp(-311/50)/10 - exp(-933/100)/10 + sin(311/100)/10, cos(78/25)/10 + exp(-156/25)/10 - exp(234/25)/10 + sin(78/25)/10, cos(313/100)/10 + exp(-313/50)/10 - exp(-939/100)/10 + sin(313/100)/10, cos(157/50)/10 + exp(-157/25)/10 - exp(-471/50)/10 + sin(157/50)/10, cos(63/20)/10 + exp(-63/10)/10 - exp(-189/20)/10 + sin(63/20)/10, cos(79/25)/10 + exp(-158/25)/10 - exp(-237/25)/10 + sin(79/25)/10, cos(317/100)/10 + exp(-317/50)/10 - exp(-951/100)/10 + sin(317/100)/10, cos(159/50)/10 + exp(159/25)/10 - exp(-477/50)/10 + sin(159/50)/10, cos(319/100)/10 + exp(-319/50)/10 - exp(-957/100)/10 +

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 $\sin(163/50)/10, \cos(327/100)/10 + \exp(-327/50)/10 - \exp(-981/100)/10 +$
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 $\sin(83/25)/10, \cos(333/100)/10 + \exp(-333/50)/10 - \exp(-999/100)/10 +$
 $\sin(333/100)/10, \cos(167/50)/10 + \exp(-167/25)/10 - \exp(-501/50)/10 +$
 $\sin(167/50)/10, \cos(67/20)/10 + \exp(-67/10)/10 - \exp(-201/20)/10 +$
 $\sin(67/20)/10, \cos(84/25)/10 + \exp(-168/25)/10 - \exp(-252/25)/10 +$
 $\sin(84/25)/10, \cos(337/100)/10 + \exp(-337/50)/10 - \exp(-1011/100)/10 +$
 $\sin(337/100)/10, \cos(169/50)/10 + \exp($

$169/25)/10 - \exp(-507/50)/10 + \sin(169/50)/10, \cos(339/100)/10 + \exp(-$
 $339/50)/10 - \exp(-1017/100)/10 + \sin(339/100)/10, \cos(17/5)/10 + \exp(-$
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 $\exp(341/50)/10 - \exp(-1023/100)/10 + \sin(341/100)/10, \cos(171/50)/10$
 $+ \exp(-171/25)/10 - \exp(-513/50)/10 + \sin(171/50)/10, \cos(343/100)/10$
 $+ \exp(-343/50)/10 - \exp(-1029/100)/10 + \sin(343/100)/10, \cos(86/25)/10$
 $+ \exp(-172/25)/10 - \exp(-258/25)/10 + \sin(86/25)/10, \cos(69/20)/10 +$
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 $\exp(-347/50)/10 - \exp(-1041/100)/10 + \sin(347/100)/10, \cos(87/25)/10 +$
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$\exp(351/50)/10 - \exp(-1053/100)/10 + \sin(351/100)/10, \cos(88/25)/10 +$
 $\exp(-176/25)/10 - \exp(-264/25)/10 + \sin(88/25)/10, \cos(353/100)/10 +$
 $\exp(-353/50)/10 - \exp(-1059/100)/10 + \sin(353/100)/10, \cos(177/50)/10$
 $+ \exp(-177/25)/10 - \exp(-531/50)/10 + \sin(177/50)/10, \cos(71/20)/10 +$
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 $178/25)/10 - \exp(-267/25)/10 + \sin(89/25)/10, \cos(357/100)/10 + \exp(-$
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 $\exp(-359/50)/10 - \exp(-1077/100)/10 + \sin(359/100)/10, \cos(18/5)/10 +$
 $\exp(-36/5)/10 - \exp(-54/5)/10 + \sin(18/5)/10, \cos(361/100)/10 +$
 $\exp(361/50)/10 - \exp(-1083/100)/10 + \sin(361/100)/10, \cos(181/50)/10$
 $+ \exp(-181/25)/10 - \exp(-543/50)/10 + \sin(181/50)/10, \cos(363/100)/10$
 $+ \exp(-363/50)/10 - \exp(-1089/100)/10 + \sin(363/100)/10, \cos(91/25)/10$
 $+ \exp(-182/25)/10 - \exp(-273/25)/10 + \sin(91/25)/10, \cos(73/20)/10 +$
 $\exp(-73/10)/10 - \exp(-219/20)/10 + \sin(73/20)/10, \cos(183/50)/10 +$
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 $\exp(-371/50)/10 - \exp(-1113/100)/10 + \sin(371/100)/10, \cos(93/25)/10 +$
 $\exp(-186/25)/10 - \exp(279/25)/10 + \sin(93/25)/10, \cos(373/100)/10 +$
 $\exp(-373/50)/10 - \exp(-1119/100)/10 + \sin(373/100)/10, \cos(187/50)/10$
 $+ \exp(-187/25)/10 - \exp(-561/50)/10 + \sin(187/50)/10, \cos(15/4)/10 +$
 $\exp(-15/2)/10 - \exp(-45/4)/10 + \sin(15/4)/10, \cos(94/25)/10 + \exp(-$
 $188/25)/10 - \exp(-282/25)/10 + \sin(94/25)/10, \cos(377/100)/10 + \exp(-$
 $377/50)/10 - \exp(-1131/100)/10 + \sin(377/100)/10, \cos(189/50)/10 +$
 $\exp(189/25)/10 - \exp(-567/50)/10 + \sin(189/50)/10, \cos(379/100)/10 +$
 $\exp(-379/50)/10 - \exp(-1137/100)/10 + \sin(379/100)/10, \cos(19/5)/10 +$
 $\exp(-38/5)/10 - \exp(-57/5)/10 + \sin(19/5)/10, \cos(381/100)/10 +$
 $\exp(381/50)/10 - \exp(-1143/100)/10 + \sin(381/100)/10, \cos(191/50)/10$
 $+ \exp(-191/25)/10 - \exp(-573/50)/10 + \sin(191/50)/10, \cos(383/100)/10$

+ exp(-383/50)/10 - exp(-1149/100)/10 + sin(383/100)/10, cos(96/25)/10
+ exp(-192/25)/10 - exp(-288/25)/10 + sin(96/25)/10, cos(77/20)/10 +
exp(-77/10)/10 - exp(-231/20)/10 + sin(77/20)/10, cos(193/50)/10 +
exp(-193/25)/10 - exp(-579/50)/10 + sin(193/50)/10, cos(387/100)/10 +
exp(-387/50)/10 - exp(-1161/100)/10 + sin(387/100)/10, cos(97/25)/10 +
exp(194/25)/10 - exp(-291/25)/10 + sin(97/25)/10, cos(389/100)/10 +
exp(-389/50)/10 - exp(-1167/100)/10 + sin(389/100)/10, cos(39/10)/10 +
exp(-39/5)/10 - exp(-117/10)/10 + sin(39/10)/10, cos(391/100)/10 +
exp(-391/50)/10 - exp(-1173/100)/10 + sin(391/100)/10, cos(98/25)/10 +
exp(-196/25)/10 - exp(294/25)/10 + sin(98/25)/10, cos(393/100)/10 +
exp(-393/50)/10 - exp(-1179/100)/10 + sin(393/100)/10, cos(197/50)/10
+ exp(-197/25)/10 - exp(-591/50)/10 + sin(197/50)/10, cos(79/20)/10 +
exp(-79/10)/10 - exp(-237/20)/10 + sin(79/20)/10, cos(99/25)/10 + exp(-
198/25)/10 - exp(-297/25)/10 + sin(99/25)/10, cos(397/100)/10 + exp(-
397/50)/10 - exp(-1191/100)/10 + sin(397/100)/10, cos(199/50)/10 +
exp(199/25)/10 - exp(-597/50)/10 + sin(199/50)/10, cos(399/100)/10 +
exp(-399/50)/10 - exp(-1197/100)/10 + sin(399/100)/10, cos(4)/10 +
exp(-8)/10 - exp(-12)/10 + sin(4)/10, cos(401/100)/10 + exp(-401/50)/10

-

exp(-1203/100)/10 + sin(401/100)/10, cos(201/50)/10 + exp(-201/25)/10
- exp(-603/50)/10 + sin(201/50)/10, cos(403/100)/10 + exp(-403/50)/10 -
exp(-1209/100)/10 + sin(403/100)/10, cos(101/25)/10 + exp(-202/25)/10
- exp(-303/25)/10 + sin(101/25)/10, cos(81/20)/10 + exp(-81/10)/10 -
exp(-243/20)/10 + sin(81/20)/10, cos(203/50)/10 + exp(-203/25)/10 -
exp(-609/50)/10 + sin(203/50)/10, cos(407/100)/10 + exp(-407/50)/10 -
exp(-1221/100)/10 + sin(407/100)/10, cos(102/25)/10 + exp(204/25)/10
- exp(-306/25)/10 + sin(102/25)/10, cos(409/100)/10 + exp(-409/50)/10 -
exp(-1227/100)/10 + sin(409/100)/10, cos(41/10)/10 + exp(-41/5)/10 -
exp(-123/10)/10 + sin(41/10)/10, cos(411/100)/10 + exp(-411/50)/10 -
exp(-1233/100)/10 + sin(411/100)/10, cos(103/25)/10 + exp(-206/25)/10
- exp(309/25)/10 + sin(103/25)/10, cos(413/100)/10 + exp(-413/50)/10 -
exp(-1239/100)/10 + sin(413/100)/10, cos(207/50)/10 + exp(-207/25)/10

- exp(-621/50)/10 + sin(207/50)/10, cos(83/20)/10 + exp(-83/10)/10 -
exp(-249/20)/10 + sin(83/20)/10, cos(104/25)/10 + exp(-208/25)/10 -
exp(-312/25)/10 + sin(104/25)/10, cos(417/100)/10 + exp(-417/50)/10 -
exp(-1251/100)/10 + sin(417/100)/10, cos(209/50)/10 + exp(-209/25)/10
- exp(-627/50)/10 + sin(209/50)/10, cos(419/100)/10 + exp(419/50)/10 -
exp(-1257/100)/10 + sin(419/100)/10, cos(21/5)/10 + exp(-42/5)/10 -
exp(-63/5)/10 + sin(21/5)/10, cos(421/100)/10 + exp(-421/50)/10 - exp(-
1263/100)/10 + sin(421/100)/10, cos(211/50)/10 + exp(-211/25)/10 -
exp(-633/50)/10 + sin(211/50)/10, cos(423/100)/10 + exp(423/50)/10 -
exp(-1269/100)/10 + sin(423/100)/10, cos(106/25)/10 + exp(-212/25)/10
- exp(-318/25)/10 + sin(106/25)/10, cos(17/4)/10 + exp(-17/2)/10 - exp(-
51/4)/10 + sin(17/4)/10, cos(213/50)/10 + exp(213/25)/10 - exp(-
639/50)/10 + sin(213/50)/10, cos(427/100)/10 + exp(-427/50)/10 - exp(-
1281/100)/10 + sin(427/100)/10, cos(107/25)/10 + exp(-214/25)/10 -
exp(-321/25)/10 + sin(107/25)/10, cos(429/100)/10 + exp(-429/50)/10 -
exp(-1287/100)/10 + sin(429/100)/10, cos(43/10)/10 + exp(43/5)/10 -
exp(-129/10)/10 + sin(43/10)/10, cos(431/100)/10 + exp(-431/50)/10 -
exp(-1293/100)/10 + sin(431/100)/10, cos(108/25)/10 + exp(-216/25)/10
- exp(-324/25)/10 + sin(108/25)/10, cos(433/100)/10 + exp(-433/50)/10 -
exp(-1299/100)/10 + sin(433/100)/10, cos(217/50)/10 + exp(217/25)/10
- exp(-651/50)/10 + sin(217/50)/10, cos(87/20)/10 + exp(-87/10)/10 -
exp(-261/20)/10 + sin(87/20)/10, cos(109/25)/10 + exp(-218/25)/10 -
exp(-327/25)/10 + sin(109/25)/10, cos(437/100)/10 + exp(-437/50)/10 -
exp(-1311/100)/10 + sin(437/100)/10, cos(219/50)/10 + exp(-219/25)/10
- exp(657/50)/10 + sin(219/50)/10, cos(439/100)/10 + exp(-439/50)/10 -
exp(-1317/100)/10 + sin(439/100)/10, cos(22/5)/10 + exp(-44/5)/10 -
exp(-66/5)/10 + sin(22/5)/10, cos(441/100)/10 + exp(441/50)/10 - exp(-
1323/100)/10 + sin(441/100)/10, cos(221/50)/10 + exp(-221/25)/10 -
exp(-663/50)/10 + sin(221/50)/10, cos(443/100)/10 + exp(-443/50)/10 -
exp(-1329/100)/10 + sin(443/100)/10, cos(111/25)/10 + exp(-222/25)/10
- exp(-333/25)/10 + sin(111/25)/10, cos(89/20)/10 + exp(-89/10)/10 -
exp(-267/20)/10 + sin(89/20)/10, cos(223/50)/10 + exp(-223/25)/10 -

$\exp(-669/50)/10 + \sin(223/50)/10, \cos(447/100)/10 + \exp(-447/50)/10 -$
 $\exp(-1341/100)/10 + \sin(447/100)/10, \cos(112/25)/10 + \exp(224/25)/10$
 $- \exp(-336/25)/10 + \sin(112/25)/10, \cos(449/100)/10 + \exp(-449/50)/10 -$
 $\exp(-1347/100)/10 + \sin(449/100)/10, \cos(9/2)/10 + \exp(-9)/10 - \exp(-$
 $27/2)/10 + \sin(9/2)/10, \cos(451/100)/10 + \exp(451/50)/10 - \exp(-$
 $1353/100)/10 + \sin(451/100)/10, \cos(113/25)/10 + \exp(-226/25)/10 -$
 $\exp(-339/25)/10 + \sin(113/25)/10, \cos(453/100)/10 + \exp(-453/50)/10 -$
 $\exp(-1359/100)/10 + \sin(453/100)/10, \cos(227/50)/10 + \exp(-227/25)/10$
 $- \exp(-681/50)/10 + \sin(227/50)/10, \cos(91/20)/10 + \exp(-91/10)/10 -$
 $\exp(-273/20)/10 + \sin(91/20)/10, \cos(114/25)/10 + \exp(-228/25)/10 -$
 $\exp(-342/25)/10 + \sin(114/25)/10, \cos(457/100)/10 + \exp(-457/50)/10 -$
 $\exp(-1371/100)/10 + \sin(457/100)/10, \cos(229/50)/10 + \exp(229/25)/10$
 $- \exp(-687/50)/10 + \sin(229/50)/10, \cos(459/100)/10 + \exp(-459/50)/10 -$
 $\exp(-1377/100)/10 + \sin(459/100)/10, \cos(23/5)/10 + \exp(-46/5)/10 -$
 $\exp(-69/5)/10 + \sin(23/5)/10, \cos(461/100)/10 + \exp(461/50)/10 - \exp(-$
 $1383/100)/10 + \sin(461/100)/10, \cos(231/50)/10 + \exp(-231/25)/10 -$
 $\exp(-693/50)/10$

$+ \sin(231/50)/10, \cos(463/100)/10 + \exp(-463/50)/10 - \exp(-$
 $1389/100)/10 + \sin(463/100)/10, \cos(116/25)/10 + \exp(-232/25)/10 -$
 $\exp(-348/25)/10 + \sin(116/25)/10, \cos(93/20)/10 + \exp(-93/10)/10 -$
 $\exp(-279/20)/10 + \sin(93/20)/10, \cos(233/50)/10 + \exp(-233/25)/10 -$
 $\exp(-699/50)/10 + \sin(233/50)/10, \cos(467/100)/10 + \exp(-467/50)/10 -$
 $\exp(-1401/100)/10 + \sin(467/100)/10, \cos(117/25)/10 + \exp(234/25)/10$
 $- \exp(-351/25)/10 + \sin(117/25)/10, \cos(469/100)/10 + \exp(-469/50)/10 -$
 $\exp(-1407/100)/10 + \sin(469/100)/10, \cos(47/10)/10 + \exp(-47/5)/10 -$
 $\exp(-141/10)/10 + \sin(47/10)/10, \cos(471/100)/10 + \exp(-471/50)/10 -$
 $\exp(-1413/100)/10 + \sin(471/100)/10, \cos(118/25)/10 + \exp(-236/25)/10$
 $- \exp(354/25)/10 + \sin(118/25)/10, \cos(473/100)/10 + \exp(-473/50)/10 -$
 $\exp(-1419/100)/10 + \sin(473/100)/10, \cos(237/50)/10 + \exp(-237/25)/10$
 $- \exp(-711/50)/10 + \sin(237/50)/10, \cos(19/4)/10 + \exp(-19/2)/10 - \exp(-$
 $57/4)/10 + \sin(19/4)/10, \cos(119/25)/10 + \exp(-238/25)/10 - \exp(-$
 $357/25)/10 + \sin(119/25)/10, \cos(477/100)/10 + \exp(-477/50)/10 - \exp(-$

$1431/100)/10 + \sin(477/100)/10, \cos(239/50)/10 + \exp(-239/25)/10 - \exp(-717/50)/10 + \sin(239/50)/10, \cos(479/100)/10 + \exp(479/50)/10 - \exp(-1437/100)/10 + \sin(479/100)/10, \cos(24/5)/10 + \exp(-48/5)/10 - \exp(-72/5)/10 + \sin(24/5)/10, \cos(481/100)/10 + \exp(-481/50)/10 - \exp(-1443/100)/10 + \sin(481/100)/10, \cos(241/50)/10 + \exp(-241/25)/10 - \exp(-723/50)/10 + \sin(241/50)/10, \cos(483/100)/10 + \exp(483/50)/10 - \exp(-1449/100)/10 + \sin(483/100)/10, \cos(121/2...$ Output truncated.
Text exceeds maximum line length for Command Window display.

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