

(a)

```
commandwindow
```

```
clear
```

```
clc
```

```
format long g
```

```
C = [0 10 4 -2; -3 -17 1 2; 1 1 1 0; 8 -34 16 -10]
```

```
D = [-4; 2; 6; 4];
```

```
deborah = inv(C)
```

```
X = deborah* D
```

```
C =
```

```
    0    10     4    -2
   -3   -17     1     2
    1     1     1     0
    8   -34    16   -10
```

```
BINTI =
```

```
          -0.178571428571429          -0.102040816326531
0.571428571428571          0.0153061224489796
```

```
          0.0357142857142857          -0.0153061224489796
0.0357142857142857          -0.0102040816326531
```

```
          0.142857142857143           0.11734693877551
0.392857142857143          -0.00510204081632653
```

```
          -0.0357142857142857          0.158163265306122
0.964285714285714          -0.0612244897959184
```

```
X =
```

```
          4
   -9.71445146547012e-17
          2
          6
```

```
>>
```

(b)

```
commandwindow
```

```
clear
```

```
clc
```

```
close all
```

```
syms t
```

```
d = 1.5*exp(-0.75*t)*sin(0.85*t)+0.375*t
```

```
tn = [0:0.01:2.5]
```

```
dn = subs(d,tn)
```

```

V = diff(d)
Vn = subs(V,tn)
figure(1)
plot(tn,Vn)
xlabel('time (min)')
ylabel('velocity (km/min)')
axis tight
grid on
grid minor
A = diff(V)
An = subs(A,tn)
figure(2)
plot(tn,An)
xlabel('time (min)')
ylabel('acceleration (km/min^-2)')
axis tight
grid on
grid minor
figure(3)
plot(tn,Vn,tn,An)
axis tight
grid on
grid minor
xlabel('time (min)')
ylabel('variable')
legend('velocity (km/min)', 'acceleration (km/min^-2)', 'location', 'best'

```

d =

$$(3*t)/8 + (3*\sin((17*t)/20)*\exp(-(3*t)/4))/2$$

tn =

Columns 1 through 5

	0	0.01
0.02	0.03	0.04

Columns 6 through 10

	0.05	0.06
0.07	0.08	0.09

Columns 11 through 15

	0.1	0.11
0.12	0.13	0.14

Columns 16 through 20

	0.15	0.16
0.17	0.18	0.19

Columns 21 through 25

0.22 0.2 0.21
 0.23 0.24

Columns 26 through 30

0.27 0.25 0.26
 0.28 0.29

Columns 31 through 35

0.32 0.3 0.31
 0.33 0.34

Columns 36 through 40

0.37 0.35 0.36
 0.38 0.39

Columns 41 through 45

0.42 0.4 0.41
 0.43 0.44

Columns 46 through 50

0.47 0.45 0.46
 0.48 0.49

Columns 51 through 55

0.52 0.5 0.51
 0.53 0.54

Columns 56 through 60

0.57 0.55 0.56
 0.58 0.59

Columns 61 through 65

0.62 0.6 0.61
 0.63 0.64

Columns 66 through 70

0.67 0.65 0.66
 0.68 0.69

Columns 71 through 75

0.72 0.7 0.71
 0.73 0.74

Columns 76 through 80

0.77 0.75 0.76
 0.78 0.79

Columns 81 through 85

0.82 0.8 0.81
 0.83 0.84

Columns 86 through 90

0.87 0.85 0.86
 0.88 0.89

Columns 91 through 95

0.92 0.9 0.91
 0.93 0.94

Columns 96 through 100

0.97 0.95 0.96
 0.98 0.99

Columns 101 through 105

1.02 1 1.01
 1.03 1.04

Columns 106 through 110

1.07 1.05 1.06
 1.08 1.09

Columns 111 through 115

1.12 1.1 1.11
 1.13 1.14

Columns 116 through 120

1.17 1.15 1.16
 1.18 1.19

Columns 121 through 125

1.22	1.2 1.23	1.21 1.24
	Columns 126 through 130	
1.27	1.25 1.28	1.26 1.29
	Columns 131 through 135	
1.32	1.3 1.33	1.31 1.34
	Columns 136 through 140	
1.37	1.35 1.38	1.36 1.39
	Columns 141 through 145	
1.42	1.4 1.43	1.41 1.44
	Columns 146 through 150	
1.47	1.45 1.48	1.46 1.49
	Columns 151 through 155	
1.52	1.5 1.53	1.51 1.54
	Columns 156 through 160	
1.57	1.55 1.58	1.56 1.59
	Columns 161 through 165	
1.62	1.6 1.63	1.61 1.64
	Columns 166 through 170	
1.67	1.65 1.68	1.66 1.69
	Columns 171 through 175	

1.72	1.7 1.73	1.71 1.74
	Columns 176 through 180	
1.77	1.75 1.78	1.76 1.79
	Columns 181 through 185	
1.82	1.8 1.83	1.81 1.84
	Columns 186 through 190	
1.87	1.85 1.88	1.86 1.89
	Columns 191 through 195	
1.92	1.9 1.93	1.91 1.94
	Columns 196 through 200	
1.97	1.95 1.98	1.96 1.99
	Columns 201 through 205	
2.02	2 2.03	2.01 2.04
	Columns 206 through 210	
2.07	2.05 2.08	2.06 2.09
	Columns 211 through 215	
2.12	2.1 2.13	2.11 2.14
	Columns 216 through 220	
2.17	2.15 2.18	2.16 2.19
	Columns 221 through 225	

+ 63/800, (3*exp(-33/200)*sin(187/1000))/2 + 33/400, (3*exp(-69/400)*sin(391/2000))/2 + 69/800, (3*exp(-9/50)*sin(51/250))/2 + 9/100, (3*exp(-3/16)*sin(17/80))/2 + 3/32, (3*exp(-39/200)*sin(221/1000))/2 + 39/400, (3*exp(-81/400)*sin(459/2000))/2 + 81/800, (3*exp(-21/100)*sin(119/500))/2 + 21/200, (3*exp(-87/400)*sin(493/2000))/2 + 87/800, (3*exp(-9/40)*sin(51/200))/2 + 9/80, (3*exp(-93/400)*sin(527/2000))/2 + 93/800, (3*exp(-6/25)*sin(34/125))/2 + 3/25, (3*exp(-99/400)*sin(561/2000))/2 + 99/800, (3*exp(-51/200)*sin(289/1000))/2 + 51/400, (3*exp(-21/80)*sin(119/400))/2 + 21/160, (3*exp(-27/100)*sin(153/500))/2 + 27/200, (3*exp(-111/400)*sin(629/2000))/2 + 111/800, (3*exp(-57/200)*sin(323/1000))/2 + 57/400, (3*exp(-117/400)*sin(663/2000))/2 + 117/800, (3*exp(-3/10)*sin(17/50))/2 + 3/20, (3*exp(-123/400)*sin(697/2000))/2 + 123/800, (3*exp(-63/200)*sin(357/1000))/2 + 63/400, (3*exp(-129/400)*sin(731/2000))/2 + 129/800, (3*exp(-33/100)*sin(187/500))/2 + 33/200, (3*exp(-27/80)*sin(153/400))/2 + 27/160, (3*exp(-69/200)*sin(391/1000))/2 + 69/400, (3*exp(-141/400)*sin(799/2000))/2 + 141/800, (3*exp(-9/25)*sin(51/125))/2 + 9/50, (3*exp(-147/400)*sin(833/2000))/2 + 147/800, (3*exp(-3/8)*sin(17/40))/2 + 3/16, (3*exp(-153/400)*sin(867/2000))/2 + 153/800, (3*exp(-39/100)*sin(221/500))/2 + 39/200, (3*exp(-159/400)*sin(901/2000))/2 + 159/800, (3*exp(-81/200)*sin(459/1000))/2 + 81/400, (3*exp(-33/80)*sin(187/400))/2 + 33/160, (3*exp(-21/50)*sin(119/250))/2 + 21/100, (3*exp(-171/400)*sin(969/2000))/2 + 171/800, (3*exp(-87/200)*sin(493/1000))/2 + 87/400, (3*exp(-177/400)*sin(1003/2000))/2 + 177/800, (3*exp(-9/20)*sin(51/100))/2 + 9/40, (3*exp(-183/400)*sin(1037/2000))/2 + 183/800, (3*exp(-93/200)*sin(527/1000))/2 + 93/400, (3*exp(-189/400)*sin(1071/2000))/2 + 189/800, (3*exp(-12/25)*sin(68/125))/2 + 6/25, (3*exp(-39/80)*sin(221/400))/2 + 39/160, (3*exp(-99/200)*sin(561/1000))/2 + 99/400, (3*exp(-201/400)*sin(1139/2000))/2 + 201/800, (3*exp(-51/100)*sin(289/500))/2 + 51/200, (3*exp(-207/400)*sin(1173/2000))/2 + 207/800, (3*exp(-21/40)*sin(119/200))/2 + 21/80, (3*exp(-213/400)*sin(1207/2000))/2 + 213/800, (3*exp(-27/50)*sin(153/250))/2 + 27/100, (3*exp(-219/400)*sin(1241/2000))/2 + 219/800, (3*exp(-111/200)*sin(629/1000))/2 + 111/400, (3*exp(-9/16)*sin(51/80))/2 + 9/32, (3*exp(-57/100)*sin(323/500))/2 + 57/200, (3*exp(-231/400)*sin(1309/2000))/2 + 231/800, (3*exp(-117/200)*sin(663/1000))/2 + 117/400, (3*exp(-

237/400)*sin(1343/2000))/2 + 237/800, (3*exp(-
3/5)*sin(17/25))/2 + 3/10, (3*exp(-243/400)*sin(1377/2000))/2
+ 243/800, (3*exp(-123/200)*sin(697/1000))/2 + 123/400,
(3*exp(-249/400)*sin(1411/2000))/2 + 249/800, (3*exp(-
63/100)*sin(357/500))/2 + 63/200, (3*exp(-
51/80)*sin(289/400))/2 + 51/160, (3*exp(-
129/200)*sin(731/1000))/2 + 129/400, (3*exp(-
261/400)*sin(1479/2000))/2 + 261/800, (3*exp(-
33/50)*sin(187/250))/2 + 33/100, (3*exp(-
267/400)*sin(1513/2000))/2 + 267/800, (3*exp(-
27/40)*sin(153/200))/2 + 27/80, (3*exp(-
273/400)*sin(1547/2000))/2 + 273/800, (3*exp(-
69/100)*sin(391/500))/2 + 69/200, (3*exp(-
279/400)*sin(1581/2000))/2 + 279/800, (3*exp(-
141/200)*sin(799/1000))/2 + 141/400, (3*exp(-
57/80)*sin(323/400))/2 + 57/160, (3*exp(-
18/25)*sin(102/125))/2 + 9/25, (3*exp(-
291/400)*sin(1649/2000))/2 + 291/800, (3*exp(-
147/200)*sin(833/1000))/2 + 147/400, (3*exp(-
297/400)*sin(1683/2000))/2 + 297/800, (3*exp(-
3/4)*sin(17/20))/2 + 3/8, (3*exp(-303/400)*sin(1717/2000))/2 +
303/800, (3*exp(-153/200)*sin(867/1000))/2 + 153/400, (3*exp(-
309/400)*sin(1751/2000))/2 + 309/800, (3*exp(-
39/50)*sin(221/250))/2 + 39/100, (3*exp(-
63/80)*sin(357/400))/2 + 63/160, (3*exp(-
159/200)*sin(901/1000))/2 + 159/400, (3*exp(-
321/400)*sin(1819/2000))/2 + 321/800, (3*exp(-
81/100)*sin(459/500))/2 + 81/200, (3*exp(-
327/400)*sin(1853/2000))/2 + 327/800, (3*exp(-
33/40)*sin(187/200))/2 + 33/80, (3*exp(-
333/400)*sin(1887/2000))/2 + 333/800, (3*exp(-
21/25)*sin(119/125))/2 + 21/50, (3*exp(-
339/400)*sin(1921/2000))/2 + 339/800, (3*exp(-
171/200)*sin(969/1000))/2 + 171/400, (3*exp(-
69/80)*sin(391/400))/2 + 69/160, (3*exp(-
87/100)*sin(493/500))/2 + 87/200, (3*exp(-
351/400)*sin(1989/2000))/2 + 351/800, (3*exp(-
177/200)*sin(1003/1000))/2 + 177/400, (3*exp(-
357/400)*sin(2023/2000))/2 + 357/800, (3*exp(-
9/10)*sin(51/50))/2 + 9/20, (3*exp(-363/400)*sin(2057/2000))/2
+ 363/800, (3*exp(-183/200)*sin(1037/1000))/2 + 183/400,
(3*exp(-369/400)*sin(2091/2000))/2 + 369/800, (3*exp(-
93/100)*sin(527/500))/2 + 93/200, (3*exp(-15/16)*sin(17/16))/2
+ 15/32, (3*exp(-189/200)*sin(1071/1000))/2 + 189/400,
(3*exp(-381/400)*sin(2159/2000))/2 + 381/800, (3*exp(-
24/25)*sin(136/125))/2 + 12/25, (3*exp(-
387/400)*sin(2193/2000))/2 + 387/800, (3*exp(-
39/40)*sin(221/200))/2 + 39/80, (3*exp(-
393/400)*sin(2227/2000))/2 + 393/800, (3*exp(-
99/100)*sin(561/500))/2 + 99/200, (3*exp(-
399/400)*sin(2261/2000))/2 + 399/800, (3*exp(-

201/200)*sin(1139/1000))/2 + 201/400, (3*exp(-
81/80)*sin(459/400))/2 + 81/160, (3*exp(-
51/50)*sin(289/250))/2 + 51/100, (3*exp(-
411/400)*sin(2329/2000))/2 + 411/800, (3*exp(-
207/200)*sin(1173/1000))/2 + 207/400, (3*exp(-
417/400)*sin(2363/2000))/2 + 417/800, (3*exp(-
21/20)*sin(119/100))/2 + 21/40, (3*exp(-
423/400)*sin(2397/2000))/2 + 423/800, (3*exp(-
213/200)*sin(1207/1000))/2 + 213/400, (3*exp(-
429/400)*sin(2431/2000))/2 + 429/800, (3*exp(-
27/25)*sin(153/125))/2 + 27/50, (3*exp(-87/80)*sin(493/400))/2
+ 87/160, (3*exp(-219/200)*sin(1241/1000))/2 + 219/400,
(3*exp(-441/400)*sin(2499/2000))/2 + 441/800, (3*exp(-
111/100)*sin(629/500))/2 + 111/200, (3*exp(-
447/400)*sin(2533/2000))/2 + 447/800, (3*exp(-
9/8)*sin(51/40))/2 + 9/16, (3*exp(-453/400)*sin(2567/2000))/2
+ 453/800, (3*exp(-57/50)*sin(323/250))/2 + 57/100, (3*exp(-
459/400)*sin(2601/2000))/2 + 459/800, (3*exp(-
231/200)*sin(1309/1000))/2 + 231/400, (3*exp(-
93/80)*sin(527/400))/2 + 93/160, (3*exp(-
117/100)*sin(663/500))/2 + 117/200, (3*exp(-
471/400)*sin(2669/2000))/2 + 471/800, (3*exp(-
237/200)*sin(1343/1000))/2 + 237/400, (3*exp(-
477/400)*sin(2703/2000))/2 + 477/800, (3*exp(-
6/5)*sin(34/25))/2 + 3/5, (3*exp(-483/400)*sin(2737/2000))/2 +
483/800, (3*exp(-243/200)*sin(1377/1000))/2 + 243/400,
(3*exp(-489/400)*sin(2771/2000))/2 + 489/800, (3*exp(-
123/100)*sin(697/500))/2 + 123/200, (3*exp(-
99/80)*sin(561/400))/2 + 99/160, (3*exp(-
249/200)*sin(1411/1000))/2 + 249/400, (3*exp(-
501/400)*sin(2839/2000))/2 + 501/800, (3*exp(-
63/50)*sin(357/250))/2 + 63/100, (3*exp(-
507/400)*sin(2873/2000))/2 + 507/800, (3*exp(-
51/40)*sin(289/200))/2 + 51/80, (3*exp(-
513/400)*sin(2907/2000))/2 + 513/800, (3*exp(-
129/100)*sin(731/500))/2 + 129/200, (3*exp(-
519/400)*sin(2941/2000))/2 + 519/800, (3*exp(-
261/200)*sin(1479/1000))/2 + 261/400, (3*exp(-
21/16)*sin(119/80))/2 + 21/32, (3*exp(-33/25)*sin(187/125))/2
+ 33/50, (3*exp(-531/400)*sin(3009/2000))/2 + 531/800,
(3*exp(-267/200)*sin(1513/1000))/2 + 267/400, (3*exp(-
537/400)*sin(3043/2000))/2 + 537/800, (3*exp(-
27/20)*sin(153/100))/2 + 27/40, (3*exp(-
543/400)*sin(3077/2000))/2 + 543/800, (3*exp(-
273/200)*sin(1547/1000))/2 + 273/400, (3*exp(-
549/400)*sin(3111/2000))/2 + 549/800, (3*exp(-
69/50)*sin(391/250))/2 + 69/100, (3*exp(-
111/80)*sin(629/400))/2 + 111/160, (3*exp(-
279/200)*sin(1581/1000))/2 + 279/400, (3*exp(-
561/400)*sin(3179/2000))/2 + 561/800, (3*exp(-
141/100)*sin(799/500))/2 + 141/200, (3*exp(-

$567/400) * \sin(3213/2000))/2 + 567/800, (3 * \exp(-$
 $57/40) * \sin(323/200))/2 + 57/80, (3 * \exp(-$
 $573/400) * \sin(3247/2000))/2 + 573/800, (3 * \exp(-$
 $36/25) * \sin(204/125))/2 + 18/25, (3 * \exp(-$
 $579/400) * \sin(3281/2000))/2 + 579/800, (3 * \exp(-$
 $291/200) * \sin(1649/1000))/2 + 291/400, (3 * \exp(-$
 $117/80) * \sin(663/400))/2 + 117/160, (3 * \exp(-$
 $147/100) * \sin(833/500))/2 + 147/200, (3 * \exp(-$
 $591/400) * \sin(3349/2000))/2 + 591/800, (3 * \exp(-$
 $297/200) * \sin(1683/1000))/2 + 297/400, (3 * \exp(-$
 $597/400) * \sin(3383/2000))/2 + 597/800, (3 * \exp(-$
 $3/2) * \sin(17/10))/2 + 3/4, (3 * \exp(-603/400) * \sin(3417/2000))/2 +$
 $603/800, (3 * \exp(-303/200) * \sin(1717/1000))/2 + 303/400,$
 $(3 * \exp(-609/400) * \sin(3451/2000))/2 + 609/800, (3 * \exp(-$
 $153/100) * \sin(867/500))/2 + 153/200, (3 * \exp(-$
 $123/80) * \sin(697/400))/2 + 123/160, (3 * \exp(-$
 $309/200) * \sin(1751/1000))/2 + 309/400, (3 * \exp(-$
 $621/400) * \sin(3519/2000))/2 + 621/800, (3 * \exp(-$
 $39/25) * \sin(221/125))/2 + 39/50, (3 * \exp(-$
 $627/400) * \sin(3553/2000))/2 + 627/800, (3 * \exp(-$
 $63/40) * \sin(357/200))/2 + 63/80, (3 * \exp(-$
 $633/400) * \sin(3587/2000))/2 + 633/800, (3 * \exp(-$
 $159/100) * \sin(901/500))/2 + 159/200, (3 * \exp(-$
 $639/400) * \sin(3621/2000))/2 + 639/800, (3 * \exp(-$
 $321/200) * \sin(1819/1000))/2 + 321/400, (3 * \exp(-$
 $129/80) * \sin(731/400))/2 + 129/160, (3 * \exp(-$
 $81/50) * \sin(459/250))/2 + 81/100, (3 * \exp(-$
 $651/400) * \sin(3689/2000))/2 + 651/800, (3 * \exp(-$
 $327/200) * \sin(1853/1000))/2 + 327/400, (3 * \exp(-$
 $657/400) * \sin(3723/2000))/2 + 657/800, (3 * \exp(-$
 $33/20) * \sin(187/100))/2 + 33/40, (3 * \exp(-$
 $663/400) * \sin(3757/2000))/2 + 663/800, (3 * \exp(-$
 $333/200) * \sin(1887/1000))/2 + 333/400, (3 * \exp(-$
 $669/400) * \sin(3791/2000))/2 + 669/800, (3 * \exp(-$
 $42/25) * \sin(238/125))/2 + 21/25, (3 * \exp(-27/16) * \sin(153/80))/2$
 $+ 27/32, (3 * \exp(-339/200) * \sin(1921/1000))/2 + 339/400,$
 $(3 * \exp(-681/400) * \sin(3859/2000))/2 + 681/800, (3 * \exp(-$
 $171/100) * \sin(969/500))/2 + 171/200, (3 * \exp(-$
 $687/400) * \sin(3893/2000))/2 + 687/800, (3 * \exp(-$
 $69/40) * \sin(391/200))/2 + 69/80, (3 * \exp(-$
 $693/400) * \sin(3927/2000))/2 + 693/800, (3 * \exp(-$
 $87/50) * \sin(493/250))/2 + 87/100, (3 * \exp(-$
 $699/400) * \sin(3961/2000))/2 + 699/800, (3 * \exp(-$
 $351/200) * \sin(1989/1000))/2 + 351/400, (3 * \exp(-$
 $141/80) * \sin(799/400))/2 + 141/160, (3 * \exp(-$
 $177/100) * \sin(1003/500))/2 + 177/200, (3 * \exp(-$
 $711/400) * \sin(4029/2000))/2 + 711/800, (3 * \exp(-$
 $357/200) * \sin(2023/1000))/2 + 357/400, (3 * \exp(-$
 $717/400) * \sin(4063/2000))/2 + 717/800, (3 * \exp(-$
 $9/5) * \sin(51/25))/2 + 9/10, (3 * \exp(-723/400) * \sin(4097/2000))/2$
 $+ 723/800, (3 * \exp(-363/200) * \sin(2057/1000))/2 + 363/400,$

$(3*\exp(-729/400)*\sin(4131/2000))/2 + 729/800, (3*\exp(-183/100)*\sin(1037/500))/2 + 183/200, (3*\exp(-147/80)*\sin(833/400))/2 + 147/160, (3*\exp(-369/200)*\sin(2091/1000))/2 + 369/400, (3*\exp(-741/400)*\sin(4199/2000))/2 + 741/800, (3*\exp(-93/50)*\sin(527/250))/2 + 93/100, (3*\exp(-747/400)*\sin(4233/2000))/2 + 747/800, (3*\exp(-15/8)*\sin(17/8))/2 + 15/16]$

V =

$(51*\cos((17*t)/20)*\exp(-(3*t)/4))/40 - (9*\sin((17*t)/20)*\exp(-(3*t)/4))/8 + 3/8$

Vn =

$[33/20, (51*\cos(17/2000)*\exp(-3/400))/40 - (9*\exp(-3/400)*\sin(17/2000))/8 + 3/8, (51*\cos(17/1000)*\exp(-3/200))/40 - (9*\exp(-3/200)*\sin(17/1000))/8 + 3/8, (51*\cos(51/2000)*\exp(-9/400))/40 - (9*\exp(-9/400)*\sin(51/2000))/8 + 3/8, (51*\cos(17/500)*\exp(-3/100))/40 - (9*\exp(-3/100)*\sin(17/500))/8 + 3/8, (51*\cos(17/400)*\exp(-3/80))/40 - (9*\exp(-3/80)*\sin(17/400))/8 + 3/8, (51*\cos(51/1000)*\exp(-9/200))/40 - (9*\exp(-9/200)*\sin(51/1000))/8 + 3/8, (51*\cos(119/2000)*\exp(-21/400))/40 - (9*\exp(-21/400)*\sin(119/2000))/8 + 3/8, (51*\cos(17/250)*\exp(-3/50))/40 - (9*\exp(-3/50)*\sin(17/250))/8 + 3/8, (51*\cos(153/2000)*\exp(-27/400))/40 - (9*\exp(-27/400)*\sin(153/2000))/8 + 3/8, (51*\cos(17/200)*\exp(-3/40))/40 - (9*\exp(-3/40)*\sin(17/200))/8 + 3/8, (51*\cos(187/2000)*\exp(-33/400))/40 - (9*\exp(-33/400)*\sin(187/2000))/8 + 3/8, (51*\cos(51/500)*\exp(-9/100))/40 - (9*\exp(-9/100)*\sin(51/500))/8 + 3/8, (51*\cos(221/2000)*\exp(-39/400))/40 - (9*\exp(-39/400)*\sin(221/2000))/8 + 3/8, (51*\cos(119/1000)*\exp(-21/200))/40 - (9*\exp(-21/200)*\sin(119/1000))/8 + 3/8, (51*\cos(51/400)*\exp(-9/80))/40 - (9*\exp(-9/80)*\sin(51/400))/8 + 3/8, (51*\cos(17/125)*\exp(-3/25))/40 - (9*\exp(-3/25)*\sin(17/125))/8 + 3/8, (51*\cos(289/2000)*\exp(-51/400))/40 - (9*\exp(-51/400)*\sin(289/2000))/8 + 3/8, (51*\cos(153/1000)*\exp(-27/200))/40 - (9*\exp(-27/200)*\sin(153/1000))/8 + 3/8, (51*\cos(323/2000)*\exp(-57/400))/40 - (9*\exp(-57/400)*\sin(323/2000))/8 + 3/8, (51*\cos(17/100)*\exp(-3/20))/40 - (9*\exp(-3/20)*\sin(17/100))/8 + 3/8, (51*\cos(357/2000)*\exp(-63/400))/40 - (9*\exp(-63/400)*\sin(357/2000))/8 + 3/8, (51*\cos(187/1000)*\exp(-33/200))/40 - (9*\exp(-33/200)*\sin(187/1000))/8 + 3/8, (51*\cos(391/2000)*\exp(-69/400))/40 - (9*\exp(-69/400)*\sin(391/2000))/8 + 3/8, (51*\cos(51/250)*\exp(-9/50))/40 - (9*\exp(-9/50)*\sin(51/250))/8 + 3/8, (51*\cos(17/80)*\exp(-$

$3/16)/40 - (9*\exp(-3/16)*\sin(17/80))/8 + 3/8,$
 $(51*\cos(221/1000)*\exp(-39/200))/40 - (9*\exp(-$
 $39/200)*\sin(221/1000))/8 + 3/8, (51*\cos(459/2000)*\exp(-$
 $81/400))/40 - (9*\exp(-81/400)*\sin(459/2000))/8 + 3/8,$
 $(51*\cos(119/500)*\exp(-21/100))/40 - (9*\exp(-$
 $21/100)*\sin(119/500))/8 + 3/8, (51*\cos(493/2000)*\exp(-$
 $87/400))/40 - (9*\exp(-87/400)*\sin(493/2000))/8 + 3/8,$
 $(51*\cos(51/200)*\exp(-9/40))/40 - (9*\exp(-9/40)*\sin(51/200))/8$
 $+ 3/8, (51*\cos(527/2000)*\exp(-93/400))/40 - (9*\exp(-$
 $93/400)*\sin(527/2000))/8 + 3/8, (51*\cos(34/125)*\exp(-6/25))/40$
 $- (9*\exp(-6/25)*\sin(34/125))/8 + 3/8, (51*\cos(561/2000)*\exp(-$
 $99/400))/40 - (9*\exp(-99/400)*\sin(561/2000))/8 + 3/8,$
 $(51*\cos(289/1000)*\exp(-51/200))/40 - (9*\exp(-$
 $51/200)*\sin(289/1000))/8 + 3/8, (51*\cos(119/400)*\exp(-$
 $21/80))/40 - (9*\exp(-21/80)*\sin(119/400))/8 + 3/8,$
 $(51*\cos(153/500)*\exp(-27/100))/40 - (9*\exp(-$
 $27/100)*\sin(153/500))/8 + 3/8, (51*\cos(629/2000)*\exp(-$
 $111/400))/40 - (9*\exp(-111/400)*\sin(629/2000))/8 + 3/8,$
 $(51*\cos(323/1000)*\exp(-57/200))/40 - (9*\exp(-$
 $57/200)*\sin(323/1000))/8 + 3/8, (51*\cos(663/2000)*\exp(-$
 $117/400))/40 - (9*\exp(-117/400)*\sin(663/2000))/8 + 3/8,$
 $(51*\cos(17/50)*\exp(-3/10))/40 - (9*\exp(-3/10)*\sin(17/50))/8 +$
 $3/8, (51*\cos(697/2000)*\exp(-123/400))/40 - (9*\exp(-$
 $123/400)*\sin(697/2000))/8 + 3/8, (51*\cos(357/1000)*\exp(-$
 $63/200))/40 - (9*\exp(-63/200)*\sin(357/1000))/8 + 3/8,$
 $(51*\cos(731/2000)*\exp(-129/400))/40 - (9*\exp(-$
 $129/400)*\sin(731/2000))/8 + 3/8, (51*\cos(187/500)*\exp(-$
 $33/100))/40 - (9*\exp(-33/100)*\sin(187/500))/8 + 3/8,$
 $(51*\cos(153/400)*\exp(-27/80))/40 - (9*\exp(-$
 $27/80)*\sin(153/400))/8 + 3/8, (51*\cos(391/1000)*\exp(-$
 $69/200))/40 - (9*\exp(-69/200)*\sin(391/1000))/8 + 3/8,$
 $(51*\cos(799/2000)*\exp(-141/400))/40 - (9*\exp(-$
 $141/400)*\sin(799/2000))/8 + 3/8, (51*\cos(51/125)*\exp(-$
 $9/25))/40 - (9*\exp(-9/25)*\sin(51/125))/8 + 3/8,$
 $(51*\cos(833/2000)*\exp(-147/400))/40 - (9*\exp(-$
 $147/400)*\sin(833/2000))/8 + 3/8, (51*\cos(17/40)*\exp(-3/8))/40$
 $- (9*\exp(-3/8)*\sin(17/40))/8 + 3/8, (51*\cos(867/2000)*\exp(-$
 $153/400))/40 - (9*\exp(-153/400)*\sin(867/2000))/8 + 3/8,$
 $(51*\cos(221/500)*\exp(-39/100))/40 - (9*\exp(-$
 $39/100)*\sin(221/500))/8 + 3/8, (51*\cos(901/2000)*\exp(-$
 $159/400))/40 - (9*\exp(-159/400)*\sin(901/2000))/8 + 3/8,$
 $(51*\cos(459/1000)*\exp(-81/200))/40 - (9*\exp(-$
 $81/200)*\sin(459/1000))/8 + 3/8, (51*\cos(187/400)*\exp(-$
 $33/80))/40 - (9*\exp(-33/80)*\sin(187/400))/8 + 3/8,$
 $(51*\cos(119/250)*\exp(-21/50))/40 - (9*\exp(-$
 $21/50)*\sin(119/250))/8 + 3/8, (51*\cos(969/2000)*\exp(-$
 $171/400))/40 - (9*\exp(-171/400)*\sin(969/2000))/8 + 3/8,$
 $(51*\cos(493/1000)*\exp(-87/200))/40 - (9*\exp(-$
 $87/200)*\sin(493/1000))/8 + 3/8, (51*\cos(1003/2000)*\exp(-$
 $177/400))/40 - (9*\exp(-177/400)*\sin(1003/2000))/8 + 3/8,$
 $(51*\cos(51/100)*\exp(-9/20))/40 - (9*\exp(-9/20)*\sin(51/100))/8$

$+ 3/8, (51*\cos(1037/2000)*\exp(-183/400))/40 - (9*\exp(-183/400)*\sin(1037/2000))/8 + 3/8, (51*\cos(527/1000)*\exp(-93/200))/40 - (9*\exp(-93/200)*\sin(527/1000))/8 + 3/8,$
 $(51*\cos(1071/2000)*\exp(-189/400))/40 - (9*\exp(-189/400)*\sin(1071/2000))/8 + 3/8, (51*\cos(68/125)*\exp(-12/25))/40 - (9*\exp(-12/25)*\sin(68/125))/8 + 3/8,$
 $(51*\cos(221/400)*\exp(-39/80))/40 - (9*\exp(-39/80)*\sin(221/400))/8 + 3/8, (51*\cos(561/1000)*\exp(-99/200))/40 - (9*\exp(-99/200)*\sin(561/1000))/8 + 3/8,$
 $(51*\cos(1139/2000)*\exp(-201/400))/40 - (9*\exp(-201/400)*\sin(1139/2000))/8 + 3/8, (51*\cos(289/500)*\exp(-51/100))/40 - (9*\exp(-51/100)*\sin(289/500))/8 + 3/8,$
 $(51*\cos(1173/2000)*\exp(-207/400))/40 - (9*\exp(-207/400)*\sin(1173/2000))/8 + 3/8, (51*\cos(119/200)*\exp(-21/40))/40 - (9*\exp(-21/40)*\sin(119/200))/8 + 3/8,$
 $(51*\cos(1207/2000)*\exp(-213/400))/40 - (9*\exp(-213/400)*\sin(1207/2000))/8 + 3/8, (51*\cos(153/250)*\exp(-27/50))/40 - (9*\exp(-27/50)*\sin(153/250))/8 + 3/8,$
 $(51*\cos(1241/2000)*\exp(-219/400))/40 - (9*\exp(-219/400)*\sin(1241/2000))/8 + 3/8, (51*\cos(629/1000)*\exp(-111/200))/40 - (9*\exp(-111/200)*\sin(629/1000))/8 + 3/8,$
 $(51*\cos(51/80)*\exp(-9/16))/40 - (9*\exp(-9/16)*\sin(51/80))/8 + 3/8, (51*\cos(323/500)*\exp(-57/100))/40 - (9*\exp(-57/100)*\sin(323/500))/8 + 3/8,$
 $(51*\cos(1309/2000)*\exp(-231/400))/40 - (9*\exp(-231/400)*\sin(1309/2000))/8 + 3/8, (51*\cos(663/1000)*\exp(-117/200))/40 - (9*\exp(-117/200)*\sin(663/1000))/8 + 3/8,$
 $(51*\cos(1343/2000)*\exp(-237/400))/40 - (9*\exp(-237/400)*\sin(1343/2000))/8 + 3/8, (51*\cos(17/25)*\exp(-3/5))/40 - (9*\exp(-3/5)*\sin(17/25))/8 + 3/8,$
 $(51*\cos(1377/2000)*\exp(-243/400))/40 - (9*\exp(-243/400)*\sin(1377/2000))/8 + 3/8, (51*\cos(697/1000)*\exp(-123/200))/40 - (9*\exp(-123/200)*\sin(697/1000))/8 + 3/8,$
 $(51*\cos(1411/2000)*\exp(-249/400))/40 - (9*\exp(-249/400)*\sin(1411/2000))/8 + 3/8, (51*\cos(357/500)*\exp(-63/100))/40 - (9*\exp(-63/100)*\sin(357/500))/8 + 3/8,$
 $(51*\cos(289/400)*\exp(-51/80))/40 - (9*\exp(-51/80)*\sin(289/400))/8 + 3/8, (51*\cos(731/1000)*\exp(-129/200))/40 - (9*\exp(-129/200)*\sin(731/1000))/8 + 3/8,$
 $(51*\cos(1479/2000)*\exp(-261/400))/40 - (9*\exp(-261/400)*\sin(1479/2000))/8 + 3/8, (51*\cos(187/250)*\exp(-33/50))/40 - (9*\exp(-33/50)*\sin(187/250))/8 + 3/8,$
 $(51*\cos(1513/2000)*\exp(-267/400))/40 - (9*\exp(-267/400)*\sin(1513/2000))/8 + 3/8, (51*\cos(153/200)*\exp(-27/40))/40 - (9*\exp(-27/40)*\sin(153/200))/8 + 3/8,$
 $(51*\cos(1547/2000)*\exp(-273/400))/40 - (9*\exp(-273/400)*\sin(1547/2000))/8 + 3/8, (51*\cos(391/500)*\exp(-69/100))/40 - (9*\exp(-69/100)*\sin(391/500))/8 + 3/8,$
 $(51*\cos(1581/2000)*\exp(-279/400))/40 - (9*\exp(-279/400)*\sin(1581/2000))/8 + 3/8, (51*\cos(799/1000)*\exp(-141/200))/40 - (9*\exp(-141/200)*\sin(799/1000))/8 + 3/8,$
 $(51*\cos(323/400)*\exp(-57/80))/40 - (9*\exp(-$

$57/80) * \sin(323/400)) / 8 + 3/8, (51 * \cos(102/125) * \exp(-18/25)) / 40$
 $- (9 * \exp(-18/25) * \sin(102/125)) / 8 + 3/8,$
 $(51 * \cos(1649/2000) * \exp(-291/400)) / 40 - (9 * \exp(-$
 $291/400) * \sin(1649/2000)) / 8 + 3/8, (51 * \cos(833/1000) * \exp(-$
 $147/200)) / 40 - (9 * \exp(-147/200) * \sin(833/1000)) / 8 + 3/8,$
 $(51 * \cos(1683/2000) * \exp(-297/400)) / 40 - (9 * \exp(-$
 $297/400) * \sin(1683/2000)) / 8 + 3/8, (51 * \cos(17/20) * \exp(-3/4)) / 40$
 $- (9 * \exp(-3/4) * \sin(17/20)) / 8 + 3/8, (51 * \cos(1717/2000) * \exp(-$
 $303/400)) / 40 - (9 * \exp(-303/400) * \sin(1717/2000)) / 8 + 3/8,$
 $(51 * \cos(867/1000) * \exp(-153/200)) / 40 - (9 * \exp(-$
 $153/200) * \sin(867/1000)) / 8 + 3/8, (51 * \cos(1751/2000) * \exp(-$
 $309/400)) / 40 - (9 * \exp(-309/400) * \sin(1751/2000)) / 8 + 3/8,$
 $(51 * \cos(221/250) * \exp(-39/50)) / 40 - (9 * \exp(-$
 $39/50) * \sin(221/250)) / 8 + 3/8, (51 * \cos(357/400) * \exp(-63/80)) / 40$
 $- (9 * \exp(-63/80) * \sin(357/400)) / 8 + 3/8,$
 $(51 * \cos(901/1000) * \exp(-159/200)) / 40 - (9 * \exp(-$
 $159/200) * \sin(901/1000)) / 8 + 3/8, (51 * \cos(1819/2000) * \exp(-$
 $321/400)) / 40 - (9 * \exp(-321/400) * \sin(1819/2000)) / 8 + 3/8,$
 $(51 * \cos(459/500) * \exp(-81/100)) / 40 - (9 * \exp(-$
 $81/100) * \sin(459/500)) / 8 + 3/8, (51 * \cos(1853/2000) * \exp(-$
 $327/400)) / 40 - (9 * \exp(-327/400) * \sin(1853/2000)) / 8 + 3/8,$
 $(51 * \cos(187/200) * \exp(-33/40)) / 40 - (9 * \exp(-$
 $33/40) * \sin(187/200)) / 8 + 3/8, (51 * \cos(1887/2000) * \exp(-$
 $333/400)) / 40 - (9 * \exp(-333/400) * \sin(1887/2000)) / 8 + 3/8,$
 $(51 * \cos(119/125) * \exp(-21/25)) / 40 - (9 * \exp(-$
 $21/25) * \sin(119/125)) / 8 + 3/8, (51 * \cos(1921/2000) * \exp(-$
 $339/400)) / 40 - (9 * \exp(-339/400) * \sin(1921/2000)) / 8 + 3/8,$
 $(51 * \cos(969/1000) * \exp(-171/200)) / 40 - (9 * \exp(-$
 $171/200) * \sin(969/1000)) / 8 + 3/8, (51 * \cos(391/400) * \exp(-$
 $69/80)) / 40 - (9 * \exp(-69/80) * \sin(391/400)) / 8 + 3/8,$
 $(51 * \cos(493/500) * \exp(-87/100)) / 40 - (9 * \exp(-$
 $87/100) * \sin(493/500)) / 8 + 3/8, (51 * \cos(1989/2000) * \exp(-$
 $351/400)) / 40 - (9 * \exp(-351/400) * \sin(1989/2000)) / 8 + 3/8,$
 $(51 * \cos(1003/1000) * \exp(-177/200)) / 40 - (9 * \exp(-$
 $177/200) * \sin(1003/1000)) / 8 + 3/8, (51 * \cos(2023/2000) * \exp(-$
 $357/400)) / 40 - (9 * \exp(-357/400) * \sin(2023/2000)) / 8 + 3/8,$
 $(51 * \cos(51/50) * \exp(-9/10)) / 40 - (9 * \exp(-9/10) * \sin(51/50)) / 8 +$
 $3/8, (51 * \cos(2057/2000) * \exp(-363/400)) / 40 - (9 * \exp(-$
 $363/400) * \sin(2057/2000)) / 8 + 3/8, (51 * \cos(1037/1000) * \exp(-$
 $183/200)) / 40 - (9 * \exp(-183/200) * \sin(1037/1000)) / 8 + 3/8,$
 $(51 * \cos(2091/2000) * \exp(-369/400)) / 40 - (9 * \exp(-$
 $369/400) * \sin(2091/2000)) / 8 + 3/8, (51 * \cos(527/500) * \exp(-$
 $93/100)) / 40 - (9 * \exp(-93/100) * \sin(527/500)) / 8 + 3/8,$
 $(51 * \cos(17/16) * \exp(-15/16)) / 40 - (9 * \exp(-15/16) * \sin(17/16)) / 8$
 $+ 3/8, (51 * \cos(1071/1000) * \exp(-189/200)) / 40 - (9 * \exp(-$
 $189/200) * \sin(1071/1000)) / 8 + 3/8, (51 * \cos(2159/2000) * \exp(-$
 $381/400)) / 40 - (9 * \exp(-381/400) * \sin(2159/2000)) / 8 + 3/8,$
 $(51 * \cos(136/125) * \exp(-24/25)) / 40 - (9 * \exp(-$
 $24/25) * \sin(136/125)) / 8 + 3/8, (51 * \cos(2193/2000) * \exp(-$
 $387/400)) / 40 - (9 * \exp(-387/400) * \sin(2193/2000)) / 8 + 3/8,$
 $(51 * \cos(221/200) * \exp(-39/40)) / 40 - (9 * \exp(-$

$39/40) * \sin(221/200)) / 8 + 3/8,$ $(51 * \cos(2227/2000) * \exp(-$
 $393/400)) / 40 - (9 * \exp(-393/400) * \sin(2227/2000)) / 8 + 3/8,$
 $(51 * \cos(561/500) * \exp(-99/100)) / 40 - (9 * \exp(-$
 $99/100) * \sin(561/500)) / 8 + 3/8,$ $(51 * \cos(2261/2000) * \exp(-$
 $399/400)) / 40 - (9 * \exp(-399/400) * \sin(2261/2000)) / 8 + 3/8,$
 $(51 * \cos(1139/1000) * \exp(-201/200)) / 40 - (9 * \exp(-$
 $201/200) * \sin(1139/1000)) / 8 + 3/8,$ $(51 * \cos(459/400) * \exp(-$
 $81/80)) / 40 - (9 * \exp(-81/80) * \sin(459/400)) / 8 + 3/8,$
 $(51 * \cos(289/250) * \exp(-51/50)) / 40 - (9 * \exp(-$
 $51/50) * \sin(289/250)) / 8 + 3/8,$ $(51 * \cos(2329/2000) * \exp(-$
 $411/400)) / 40 - (9 * \exp(-411/400) * \sin(2329/2000)) / 8 + 3/8,$
 $(51 * \cos(1173/1000) * \exp(-207/200)) / 40 - (9 * \exp(-$
 $207/200) * \sin(1173/1000)) / 8 + 3/8,$ $(51 * \cos(2363/2000) * \exp(-$
 $417/400)) / 40 - (9 * \exp(-417/400) * \sin(2363/2000)) / 8 + 3/8,$
 $(51 * \cos(119/100) * \exp(-21/20)) / 40 - (9 * \exp(-$
 $21/20) * \sin(119/100)) / 8 + 3/8,$ $(51 * \cos(2397/2000) * \exp(-$
 $423/400)) / 40 - (9 * \exp(-423/400) * \sin(2397/2000)) / 8 + 3/8,$
 $(51 * \cos(1207/1000) * \exp(-213/200)) / 40 - (9 * \exp(-$
 $213/200) * \sin(1207/1000)) / 8 + 3/8,$ $(51 * \cos(2431/2000) * \exp(-$
 $429/400)) / 40 - (9 * \exp(-429/400) * \sin(2431/2000)) / 8 + 3/8,$
 $(51 * \cos(153/125) * \exp(-27/25)) / 40 - (9 * \exp(-$
 $27/25) * \sin(153/125)) / 8 + 3/8,$ $(51 * \cos(493/400) * \exp(-87/80)) / 40$
 $- (9 * \exp(-87/80) * \sin(493/400)) / 8 + 3/8,$
 $(51 * \cos(1241/1000) * \exp(-219/200)) / 40 - (9 * \exp(-$
 $219/200) * \sin(1241/1000)) / 8 + 3/8,$ $(51 * \cos(2499/2000) * \exp(-$
 $441/400)) / 40 - (9 * \exp(-441/400) * \sin(2499/2000)) / 8 + 3/8,$
 $(51 * \cos(629/500) * \exp(-111/100)) / 40 - (9 * \exp(-$
 $111/100) * \sin(629/500)) / 8 + 3/8,$ $(51 * \cos(2533/2000) * \exp(-$
 $447/400)) / 40 - (9 * \exp(-447/400) * \sin(2533/2000)) / 8 + 3/8,$
 $(51 * \cos(51/40) * \exp(-9/8)) / 40 - (9 * \exp(-9/8) * \sin(51/40)) / 8 +$
 $3/8,$ $(51 * \cos(2567/2000) * \exp(-453/400)) / 40 - (9 * \exp(-$
 $453/400) * \sin(2567/2000)) / 8 + 3/8,$ $(51 * \cos(323/250) * \exp(-$
 $57/50)) / 40 - (9 * \exp(-57/50) * \sin(323/250)) / 8 + 3/8,$
 $(51 * \cos(2601/2000) * \exp(-459/400)) / 40 - (9 * \exp(-$
 $459/400) * \sin(2601/2000)) / 8 + 3/8,$ $(51 * \cos(1309/1000) * \exp(-$
 $231/200)) / 40 - (9 * \exp(-231/200) * \sin(1309/1000)) / 8 + 3/8,$
 $(51 * \cos(527/400) * \exp(-93/80)) / 40 - (9 * \exp(-$
 $93/80) * \sin(527/400)) / 8 + 3/8,$ $(51 * \cos(663/500) * \exp(-$
 $117/100)) / 40 - (9 * \exp(-117/100) * \sin(663/500)) / 8 + 3/8,$
 $(51 * \cos(2669/2000) * \exp(-471/400)) / 40 - (9 * \exp(-$
 $471/400) * \sin(2669/2000)) / 8 + 3/8,$ $(51 * \cos(1343/1000) * \exp(-$
 $237/200)) / 40 - (9 * \exp(-237/200) * \sin(1343/1000)) / 8 + 3/8,$
 $(51 * \cos(2703/2000) * \exp(-477/400)) / 40 - (9 * \exp(-$
 $477/400) * \sin(2703/2000)) / 8 + 3/8,$ $(51 * \cos(34/25) * \exp(-6/5)) / 40$
 $- (9 * \exp(-6/5) * \sin(34/25)) / 8 + 3/8,$ $(51 * \cos(2737/2000) * \exp(-$
 $483/400)) / 40 - (9 * \exp(-483/400) * \sin(2737/2000)) / 8 + 3/8,$
 $(51 * \cos(1377/1000) * \exp(-243/200)) / 40 - (9 * \exp(-$
 $243/200) * \sin(1377/1000)) / 8 + 3/8,$ $(51 * \cos(2771/2000) * \exp(-$
 $489/400)) / 40 - (9 * \exp(-489/400) * \sin(2771/2000)) / 8 + 3/8,$
 $(51 * \cos(697/500) * \exp(-123/100)) / 40 - (9 * \exp(-$
 $123/100) * \sin(697/500)) / 8 + 3/8,$ $(51 * \cos(561/400) * \exp(-$

99/80))/40 - (9*exp(-99/80)*sin(561/400))/8 + 3/8,
(51*cos(1411/1000)*exp(-249/200))/40 - (9*exp(-
249/200)*sin(1411/1000))/8 + 3/8, (51*cos(2839/2000)*exp(-
501/400))/40 - (9*exp(-501/400)*sin(2839/2000))/8 + 3/8,
(51*cos(357/250)*exp(-63/50))/40 - (9*exp(-
63/50)*sin(357/250))/8 + 3/8, (51*cos(2873/2000)*exp(-
507/400))/40 - (9*exp(-507/400)*sin(2873/2000))/8 + 3/8,
(51*cos(289/200)*exp(-51/40))/40 - (9*exp(-
51/40)*sin(289/200))/8 + 3/8, (51*cos(2907/2000)*exp(-
513/400))/40 - (9*exp(-513/400)*sin(2907/2000))/8 + 3/8,
(51*cos(731/500)*exp(-129/100))/40 - (9*exp(-
129/100)*sin(731/500))/8 + 3/8, (51*cos(2941/2000)*exp(-
519/400))/40 - (9*exp(-519/400)*sin(2941/2000))/8 + 3/8,
(51*cos(1479/1000)*exp(-261/200))/40 - (9*exp(-
261/200)*sin(1479/1000))/8 + 3/8, (51*cos(119/80)*exp(-
21/16))/40 - (9*exp(-21/16)*sin(119/80))/8 + 3/8,
(51*cos(187/125)*exp(-33/25))/40 - (9*exp(-
33/25)*sin(187/125))/8 + 3/8, (51*cos(3009/2000)*exp(-
531/400))/40 - (9*exp(-531/400)*sin(3009/2000))/8 + 3/8,
(51*cos(1513/1000)*exp(-267/200))/40 - (9*exp(-
267/200)*sin(1513/1000))/8 + 3/8, (51*cos(3043/2000)*exp(-
537/400))/40 - (9*exp(-537/400)*sin(3043/2000))/8 + 3/8,
(51*cos(153/100)*exp(-27/20))/40 - (9*exp(-
27/20)*sin(153/100))/8 + 3/8, (51*cos(3077/2000)*exp(-
543/400))/40 - (9*exp(-543/400)*sin(3077/2000))/8 + 3/8,
(51*cos(1547/1000)*exp(-273/200))/40 - (9*exp(-
273/200)*sin(1547/1000))/8 + 3/8, (51*cos(3111/2000)*exp(-
549/400))/40 - (9*exp(-549/400)*sin(3111/2000))/8 + 3/8,
(51*cos(391/250)*exp(-69/50))/40 - (9*exp(-
69/50)*sin(391/250))/8 + 3/8, (51*cos(629/400)*exp(-
111/80))/40 - (9*exp(-111/80)*sin(629/400))/8 + 3/8,
(51*cos(1581/1000)*exp(-279/200))/40 - (9*exp(-
279/200)*sin(1581/1000))/8 + 3/8, (51*cos(3179/2000)*exp(-
561/400))/40 - (9*exp(-561/400)*sin(3179/2000))/8 + 3/8,
(51*cos(799/500)*exp(-141/100))/40 - (9*exp(-
141/100)*sin(799/500))/8 + 3/8, (51*cos(3213/2000)*exp(-
567/400))/40 - (9*exp(-567/400)*sin(3213/2000))/8 + 3/8,
(51*cos(323/200)*exp(-57/40))/40 - (9*exp(-
57/40)*sin(323/200))/8 + 3/8, (51*cos(3247/2000)*exp(-
573/400))/40 - (9*exp(-573/400)*sin(3247/2000))/8 + 3/8,
(51*cos(204/125)*exp(-36/25))/40 - (9*exp(-
36/25)*sin(204/125))/8 + 3/8, (51*cos(3281/2000)*exp(-
579/400))/40 - (9*exp(-579/400)*sin(3281/2000))/8 + 3/8,
(51*cos(1649/1000)*exp(-291/200))/40 - (9*exp(-
291/200)*sin(1649/1000))/8 + 3/8, (51*cos(663/400)*exp(-
117/80))/40 - (9*exp(-117/80)*sin(663/400))/8 + 3/8,
(51*cos(833/500)*exp(-147/100))/40 - (9*exp(-
147/100)*sin(833/500))/8 + 3/8, (51*cos(3349/2000)*exp(-
591/400))/40 - (9*exp(-591/400)*sin(3349/2000))/8 + 3/8,
(51*cos(1683/1000)*exp(-297/200))/40 - (9*exp(-
297/200)*sin(1683/1000))/8 + 3/8, (51*cos(3383/2000)*exp(-

$597/400)/40 - (9*\exp(-597/400)*\sin(3383/2000))/8 + 3/8,$
 $(51*\cos(17/10)*\exp(-3/2))/40 - (9*\exp(-3/2)*\sin(17/10))/8 +$
 $3/8, (51*\cos(3417/2000)*\exp(-603/400))/40 - (9*\exp(-$
 $603/400)*\sin(3417/2000))/8 + 3/8, (51*\cos(1717/1000)*\exp(-$
 $303/200))/40 - (9*\exp(-303/200)*\sin(1717/1000))/8 + 3/8,$
 $(51*\cos(3451/2000)*\exp(-609/400))/40 - (9*\exp(-$
 $609/400)*\sin(3451/2000))/8 + 3/8, (51*\cos(867/500)*\exp(-$
 $153/100))/40 - (9*\exp(-153/100)*\sin(867/500))/8 + 3/8,$
 $(51*\cos(697/400)*\exp(-123/80))/40 - (9*\exp(-$
 $123/80)*\sin(697/400))/8 + 3/8, (51*\cos(1751/1000)*\exp(-$
 $309/200))/40 - (9*\exp(-309/200)*\sin(1751/1000))/8 + 3/8,$
 $(51*\cos(3519/2000)*\exp(-621/400))/40 - (9*\exp(-$
 $621/400)*\sin(3519/2000))/8 + 3/8, (51*\cos(221/125)*\exp(-$
 $39/25))/40 - (9*\exp(-39/25)*\sin(221/125))/8 + 3/8,$
 $(51*\cos(3553/2000)*\exp(-627/400))/40 - (9*\exp(-$
 $627/400)*\sin(3553/2000))/8 + 3/8, (51*\cos(357/200)*\exp(-$
 $63/40))/40 - (9*\exp(-63/40)*\sin(357/200))/8 + 3/8,$
 $(51*\cos(3587/2000)*\exp(-633/400))/40 - (9*\exp(-$
 $633/400)*\sin(3587/2000))/8 + 3/8, (51*\cos(901/500)*\exp(-$
 $159/100))/40 - (9*\exp(-159/100)*\sin(901/500))/8 + 3/8,$
 $(51*\cos(3621/2000)*\exp(-639/400))/40 - (9*\exp(-$
 $639/400)*\sin(3621/2000))/8 + 3/8, (51*\cos(1819/1000)*\exp(-$
 $321/200))/40 - (9*\exp(-321/200)*\sin(1819/1000))/8 + 3/8,$
 $(51*\cos(731/400)*\exp(-129/80))/40 - (9*\exp(-$
 $129/80)*\sin(731/400))/8 + 3/8, (51*\cos(459/250)*\exp(-$
 $81/50))/40 - (9*\exp(-81/50)*\sin(459/250))/8 + 3/8,$
 $(51*\cos(3689/2000)*\exp(-651/400))/40 - (9*\exp(-$
 $651/400)*\sin(3689/2000))/8 + 3/8, (51*\cos(1853/1000)*\exp(-$
 $327/200))/40 - (9*\exp(-327/200)*\sin(1853/1000))/8 + 3/8,$
 $(51*\cos(3723/2000)*\exp(-657/400))/40 - (9*\exp(-$
 $657/400)*\sin(3723/2000))/8 + 3/8, (51*\cos(187/100)*\exp(-$
 $33/20))/40 - (9*\exp(-33/20)*\sin(187/100))/8 + 3/8,$
 $(51*\cos(3757/2000)*\exp(-663/400))/40 - (9*\exp(-$
 $663/400)*\sin(3757/2000))/8 + 3/8, (51*\cos(1887/1000)*\exp(-$
 $333/200))/40 - (9*\exp(-333/200)*\sin(1887/1000))/8 + 3/8,$
 $(51*\cos(3791/2000)*\exp(-669/400))/40 - (9*\exp(-$
 $669/400)*\sin(3791/2000))/8 + 3/8, (51*\cos(238/125)*\exp(-$
 $42/25))/40 - (9*\exp(-42/25)*\sin(238/125))/8 + 3/8,$
 $(51*\cos(153/80)*\exp(-27/16))/40 - (9*\exp(-$
 $27/16)*\sin(153/80))/8 + 3/8, (51*\cos(1921/1000)*\exp(-$
 $339/200))/40 - (9*\exp(-339/200)*\sin(1921/1000))/8 + 3/8,$
 $(51*\cos(3859/2000)*\exp(-681/400))/40 - (9*\exp(-$
 $681/400)*\sin(3859/2000))/8 + 3/8, (51*\cos(969/500)*\exp(-$
 $171/100))/40 - (9*\exp(-171/100)*\sin(969/500))/8 + 3/8,$
 $(51*\cos(3893/2000)*\exp(-687/400))/40 - (9*\exp(-$
 $687/400)*\sin(3893/2000))/8 + 3/8, (51*\cos(391/200)*\exp(-$
 $69/40))/40 - (9*\exp(-69/40)*\sin(391/200))/8 + 3/8,$
 $(51*\cos(3927/2000)*\exp(-693/400))/40 - (9*\exp(-$
 $693/400)*\sin(3927/2000))/8 + 3/8, (51*\cos(493/250)*\exp(-$
 $87/50))/40 - (9*\exp(-87/50)*\sin(493/250))/8 + 3/8,$
 $(51*\cos(3961/2000)*\exp(-699/400))/40 - (9*\exp(-$

$$\begin{aligned}
& 699/400) * \sin(3961/2000)) / 8 + 3/8, (51 * \cos(1989/1000) * \exp(- \\
& 351/200)) / 40 - (9 * \exp(-351/200) * \sin(1989/1000)) / 8 + 3/8, \\
& (51 * \cos(799/400) * \exp(-141/80)) / 40 - (9 * \exp(- \\
& 141/80) * \sin(799/400)) / 8 + 3/8, (51 * \cos(1003/500) * \exp(- \\
& 177/100)) / 40 - (9 * \exp(-177/100) * \sin(1003/500)) / 8 + 3/8, \\
& (51 * \cos(4029/2000) * \exp(-711/400)) / 40 - (9 * \exp(- \\
& 711/400) * \sin(4029/2000)) / 8 + 3/8, (51 * \cos(2023/1000) * \exp(- \\
& 357/200)) / 40 - (9 * \exp(-357/200) * \sin(2023/1000)) / 8 + 3/8, \\
& (51 * \cos(4063/2000) * \exp(-717/400)) / 40 - (9 * \exp(- \\
& 717/400) * \sin(4063/2000)) / 8 + 3/8, (51 * \cos(51/25) * \exp(-9/5)) / 40 \\
& - (9 * \exp(-9/5) * \sin(51/25)) / 8 + 3/8, (51 * \cos(4097/2000) * \exp(- \\
& 723/400)) / 40 - (9 * \exp(-723/400) * \sin(4097/2000)) / 8 + 3/8, \\
& (51 * \cos(2057/1000) * \exp(-363/200)) / 40 - (9 * \exp(- \\
& 363/200) * \sin(2057/1000)) / 8 + 3/8, (51 * \cos(4131/2000) * \exp(- \\
& 729/400)) / 40 - (9 * \exp(-729/400) * \sin(4131/2000)) / 8 + 3/8, \\
& (51 * \cos(1037/500) * \exp(-183/100)) / 40 - (9 * \exp(- \\
& 183/100) * \sin(1037/500)) / 8 + 3/8, (51 * \cos(833/400) * \exp(- \\
& 147/80)) / 40 - (9 * \exp(-147/80) * \sin(833/400)) / 8 + 3/8, \\
& (51 * \cos(2091/1000) * \exp(-369/200)) / 40 - (9 * \exp(- \\
& 369/200) * \sin(2091/1000)) / 8 + 3/8, (51 * \cos(4199/2000) * \exp(- \\
& 741/400)) / 40 - (9 * \exp(-741/400) * \sin(4199/2000)) / 8 + 3/8, \\
& (51 * \cos(527/250) * \exp(-93/50)) / 40 - (9 * \exp(- \\
& 93/50) * \sin(527/250)) / 8 + 3/8, (51 * \cos(4233/2000) * \exp(- \\
& 747/400)) / 40 - (9 * \exp(-747/400) * \sin(4233/2000)) / 8 + 3/8, \\
& (51 * \cos(17/8) * \exp(-15/8)) / 40 - (9 * \exp(-15/8) * \sin(17/8)) / 8 + \\
& 3/8]
\end{aligned}$$

A =

$$\begin{aligned}
& - (153 * \cos((17 * t) / 20) * \exp(-(3 * t) / 4)) / 80 - \\
& (6 * \sin((17 * t) / 20) * \exp(-(3 * t) / 4)) / 25
\end{aligned}$$

An =

$$\begin{aligned}
& [-153/80, - (153 * \cos(17/2000) * \exp(-3/400)) / 80 - (6 * \exp(- \\
& 3/400) * \sin(17/2000)) / 25, - (153 * \cos(17/1000) * \exp(-3/200)) / 80 - \\
& (6 * \exp(-3/200) * \sin(17/1000)) / 25, - (153 * \cos(51/2000) * \exp(- \\
& 9/400)) / 80 - (6 * \exp(-9/400) * \sin(51/2000)) / 25, - \\
& (153 * \cos(17/500) * \exp(-3/100)) / 80 - (6 * \exp(- \\
& 3/100) * \sin(17/500)) / 25, - (153 * \cos(17/400) * \exp(-3/80)) / 80 - \\
& (6 * \exp(-3/80) * \sin(17/400)) / 25, - (153 * \cos(51/1000) * \exp(- \\
& 9/200)) / 80 - (6 * \exp(-9/200) * \sin(51/1000)) / 25, - \\
& (153 * \cos(119/2000) * \exp(-21/400)) / 80 - (6 * \exp(- \\
& 21/400) * \sin(119/2000)) / 25, - (153 * \cos(17/250) * \exp(-3/50)) / 80 - \\
& (6 * \exp(-3/50) * \sin(17/250)) / 25, - (153 * \cos(153/2000) * \exp(- \\
& 27/400)) / 80 - (6 * \exp(-27/400) * \sin(153/2000)) / 25, - \\
& (153 * \cos(17/200) * \exp(-3/40)) / 80 - (6 * \exp(- \\
& 3/40) * \sin(17/200)) / 25, - (153 * \cos(187/2000) * \exp(-33/400)) / 80 - \\
& (6 * \exp(-33/400) * \sin(187/2000)) / 25, - (153 * \cos(51/500) * \exp(-
\end{aligned}$$

$9/100)/80 - (6*\exp(-9/100)*\sin(51/500))/25, -$
 $(153*\cos(221/2000)*\exp(-39/400))/80 - (6*\exp(-$
 $39/400)*\sin(221/2000))/25, - (153*\cos(119/1000)*\exp(-$
 $21/200))/80 - (6*\exp(-21/200)*\sin(119/1000))/25, -$
 $(153*\cos(51/400)*\exp(-9/80))/80 - (6*\exp(-$
 $9/80)*\sin(51/400))/25, - (153*\cos(17/125)*\exp(-3/25))/80 -$
 $(6*\exp(-3/25)*\sin(17/125))/25, - (153*\cos(289/2000)*\exp(-$
 $51/400))/80 - (6*\exp(-51/400)*\sin(289/2000))/25, -$
 $(153*\cos(153/1000)*\exp(-27/200))/80 - (6*\exp(-$
 $27/200)*\sin(153/1000))/25, - (153*\cos(323/2000)*\exp(-$
 $57/400))/80 - (6*\exp(-57/400)*\sin(323/2000))/25, -$
 $(153*\cos(17/100)*\exp(-3/20))/80 - (6*\exp(-$
 $3/20)*\sin(17/100))/25, - (153*\cos(357/2000)*\exp(-63/400))/80 -$
 $(6*\exp(-63/400)*\sin(357/2000))/25, - (153*\cos(187/1000)*\exp(-$
 $33/200))/80 - (6*\exp(-33/200)*\sin(187/1000))/25, -$
 $(153*\cos(391/2000)*\exp(-69/400))/80 - (6*\exp(-$
 $69/400)*\sin(391/2000))/25, - (153*\cos(51/250)*\exp(-9/50))/80 -$
 $(6*\exp(-9/50)*\sin(51/250))/25, - (153*\cos(17/80)*\exp(-$
 $3/16))/80 - (6*\exp(-3/16)*\sin(17/80))/25, -$
 $(153*\cos(221/1000)*\exp(-39/200))/80 - (6*\exp(-$
 $39/200)*\sin(221/1000))/25, - (153*\cos(459/2000)*\exp(-$
 $81/400))/80 - (6*\exp(-81/400)*\sin(459/2000))/25, -$
 $(153*\cos(119/500)*\exp(-21/100))/80 - (6*\exp(-$
 $21/100)*\sin(119/500))/25, - (153*\cos(493/2000)*\exp(-$
 $87/400))/80 - (6*\exp(-87/400)*\sin(493/2000))/25, -$
 $(153*\cos(51/200)*\exp(-9/40))/80 - (6*\exp(-$
 $9/40)*\sin(51/200))/25, - (153*\cos(527/2000)*\exp(-93/400))/80 -$
 $(6*\exp(-93/400)*\sin(527/2000))/25, - (153*\cos(34/125)*\exp(-$
 $6/25))/80 - (6*\exp(-6/25)*\sin(34/125))/25, -$
 $(153*\cos(561/2000)*\exp(-99/400))/80 - (6*\exp(-$
 $99/400)*\sin(561/2000))/25, - (153*\cos(289/1000)*\exp(-$
 $51/200))/80 - (6*\exp(-51/200)*\sin(289/1000))/25, -$
 $(153*\cos(119/400)*\exp(-21/80))/80 - (6*\exp(-$
 $21/80)*\sin(119/400))/25, - (153*\cos(153/500)*\exp(-27/100))/80$
 $- (6*\exp(-27/100)*\sin(153/500))/25, - (153*\cos(629/2000)*\exp(-$
 $111/400))/80 - (6*\exp(-111/400)*\sin(629/2000))/25, -$
 $(153*\cos(323/1000)*\exp(-57/200))/80 - (6*\exp(-$
 $57/200)*\sin(323/1000))/25, - (153*\cos(663/2000)*\exp(-$
 $117/400))/80 - (6*\exp(-117/400)*\sin(663/2000))/25, -$
 $(153*\cos(17/50)*\exp(-3/10))/80 - (6*\exp(-3/10)*\sin(17/50))/25,$
 $- (153*\cos(697/2000)*\exp(-123/400))/80 - (6*\exp(-$
 $123/400)*\sin(697/2000))/25, - (153*\cos(357/1000)*\exp(-$
 $63/200))/80 - (6*\exp(-63/200)*\sin(357/1000))/25, -$
 $(153*\cos(731/2000)*\exp(-129/400))/80 - (6*\exp(-$
 $129/400)*\sin(731/2000))/25, - (153*\cos(187/500)*\exp(-$
 $33/100))/80 - (6*\exp(-33/100)*\sin(187/500))/25, -$
 $(153*\cos(153/400)*\exp(-27/80))/80 - (6*\exp(-$
 $27/80)*\sin(153/400))/25, - (153*\cos(391/1000)*\exp(-69/200))/80$
 $- (6*\exp(-69/200)*\sin(391/1000))/25, -$
 $(153*\cos(799/2000)*\exp(-141/400))/80 - (6*\exp(-$
 $141/400)*\sin(799/2000))/25, - (153*\cos(51/125)*\exp(-9/25))/80$

$$\begin{aligned}
& - (6 \cdot \exp(-9/25) \cdot \sin(51/125)) / 25, - (153 \cdot \cos(833/2000) \cdot \exp(-147/400)) / 80 - (6 \cdot \exp(-147/400) \cdot \sin(833/2000)) / 25, - \\
& (153 \cdot \cos(17/40) \cdot \exp(-3/8)) / 80 - (6 \cdot \exp(-3/8) \cdot \sin(17/40)) / 25, - \\
& (153 \cdot \cos(867/2000) \cdot \exp(-153/400)) / 80 - (6 \cdot \exp(-153/400) \cdot \sin(867/2000)) / 25, - (153 \cdot \cos(221/500) \cdot \exp(-39/100)) / 80 - (6 \cdot \exp(-39/100) \cdot \sin(221/500)) / 25, - \\
& (153 \cdot \cos(901/2000) \cdot \exp(-159/400)) / 80 - (6 \cdot \exp(-159/400) \cdot \sin(901/2000)) / 25, - (153 \cdot \cos(459/1000) \cdot \exp(-81/200)) / 80 - (6 \cdot \exp(-81/200) \cdot \sin(459/1000)) / 25, - \\
& (153 \cdot \cos(187/400) \cdot \exp(-33/80)) / 80 - (6 \cdot \exp(-33/80) \cdot \sin(187/400)) / 25, - (153 \cdot \cos(119/250) \cdot \exp(-21/50)) / 80 - \\
& (6 \cdot \exp(-21/50) \cdot \sin(119/250)) / 25, - (153 \cdot \cos(969/2000) \cdot \exp(-171/400)) / 80 - (6 \cdot \exp(-171/400) \cdot \sin(969/2000)) / 25, - \\
& (153 \cdot \cos(493/1000) \cdot \exp(-87/200)) / 80 - (6 \cdot \exp(-87/200) \cdot \sin(493/1000)) / 25, - (153 \cdot \cos(1003/2000) \cdot \exp(-177/400)) / 80 - (6 \cdot \exp(-177/400) \cdot \sin(1003/2000)) / 25, - \\
& (153 \cdot \cos(51/100) \cdot \exp(-9/20)) / 80 - (6 \cdot \exp(-9/20) \cdot \sin(51/100)) / 25, - (153 \cdot \cos(1037/2000) \cdot \exp(-183/400)) / 80 - \\
& (6 \cdot \exp(-183/400) \cdot \sin(1037/2000)) / 25, - (153 \cdot \cos(527/1000) \cdot \exp(-93/200)) / 80 - (6 \cdot \exp(-93/200) \cdot \sin(527/1000)) / 25, - (153 \cdot \cos(1071/2000) \cdot \exp(-189/400)) / 80 - (6 \cdot \exp(-189/400) \cdot \sin(1071/2000)) / 25, - \\
& (153 \cdot \cos(68/125) \cdot \exp(-12/25)) / 80 - (6 \cdot \exp(-12/25) \cdot \sin(68/125)) / 25, - (153 \cdot \cos(221/400) \cdot \exp(-39/80)) / 80 - \\
& (6 \cdot \exp(-39/80) \cdot \sin(221/400)) / 25, - (153 \cdot \cos(561/1000) \cdot \exp(-99/200)) / 80 - (6 \cdot \exp(-99/200) \cdot \sin(561/1000)) / 25, - \\
& (153 \cdot \cos(1139/2000) \cdot \exp(-201/400)) / 80 - (6 \cdot \exp(-201/400) \cdot \sin(1139/2000)) / 25, - (153 \cdot \cos(289/500) \cdot \exp(-51/100)) / 80 - (6 \cdot \exp(-51/100) \cdot \sin(289/500)) / 25, - \\
& (153 \cdot \cos(1173/2000) \cdot \exp(-207/400)) / 80 - (6 \cdot \exp(-207/400) \cdot \sin(1173/2000)) / 25, - (153 \cdot \cos(119/200) \cdot \exp(-21/40)) / 80 - (6 \cdot \exp(-21/40) \cdot \sin(119/200)) / 25, - \\
& (153 \cdot \cos(1207/2000) \cdot \exp(-213/400)) / 80 - (6 \cdot \exp(-213/400) \cdot \sin(1207/2000)) / 25, - (153 \cdot \cos(153/250) \cdot \exp(-27/50)) / 80 - (6 \cdot \exp(-27/50) \cdot \sin(153/250)) / 25, - \\
& (153 \cdot \cos(1241/2000) \cdot \exp(-219/400)) / 80 - (6 \cdot \exp(-219/400) \cdot \sin(1241/2000)) / 25, - (153 \cdot \cos(629/1000) \cdot \exp(-111/200)) / 80 - (6 \cdot \exp(-111/200) \cdot \sin(629/1000)) / 25, - \\
& (153 \cdot \cos(51/80) \cdot \exp(-9/16)) / 80 - (6 \cdot \exp(-9/16) \cdot \sin(51/80)) / 25, - (153 \cdot \cos(323/500) \cdot \exp(-57/100)) / 80 - (6 \cdot \exp(-57/100) \cdot \sin(323/500)) / 25, - (153 \cdot \cos(1309/2000) \cdot \exp(-231/400)) / 80 - (6 \cdot \exp(-231/400) \cdot \sin(1309/2000)) / 25, - \\
& (153 \cdot \cos(663/1000) \cdot \exp(-117/200)) / 80 - (6 \cdot \exp(-117/200) \cdot \sin(663/1000)) / 25, - (153 \cdot \cos(1343/2000) \cdot \exp(-237/400)) / 80 - (6 \cdot \exp(-237/400) \cdot \sin(1343/2000)) / 25, - \\
& (153 \cdot \cos(17/25) \cdot \exp(-3/5)) / 80 - (6 \cdot \exp(-3/5) \cdot \sin(17/25)) / 25, - (153 \cdot \cos(1377/2000) \cdot \exp(-243/400)) / 80 - (6 \cdot \exp(-243/400) \cdot \sin(1377/2000)) / 25, - (153 \cdot \cos(697/1000) \cdot \exp(-123/200)) / 80 - (6 \cdot \exp(-123/200) \cdot \sin(697/1000)) / 25, - \\
& (153 \cdot \cos(1411/2000) \cdot \exp(-249/400)) / 80 - (6 \cdot \exp(-249/400) \cdot \sin(1411/2000)) / 25, - (153 \cdot \cos(357/500) \cdot \exp(-
\end{aligned}$$

$$\begin{aligned}
& 63/100)) / 80 - (6 * \exp(-63/100) * \sin(357/500)) / 25, - \\
& (153 * \cos(289/400) * \exp(-51/80)) / 80 - (6 * \exp(- \\
& 51/80) * \sin(289/400)) / 25, - (153 * \cos(731/1000) * \exp(- \\
& 129/200)) / 80 - (6 * \exp(-129/200) * \sin(731/1000)) / 25, - \\
& (153 * \cos(1479/2000) * \exp(-261/400)) / 80 - (6 * \exp(- \\
& 261/400) * \sin(1479/2000)) / 25, - (153 * \cos(187/250) * \exp(- \\
& 33/50)) / 80 - (6 * \exp(-33/50) * \sin(187/250)) / 25, - \\
& (153 * \cos(1513/2000) * \exp(-267/400)) / 80 - (6 * \exp(- \\
& 267/400) * \sin(1513/2000)) / 25, - (153 * \cos(153/200) * \exp(- \\
& 27/40)) / 80 - (6 * \exp(-27/40) * \sin(153/200)) / 25, - \\
& (153 * \cos(1547/2000) * \exp(-273/400)) / 80 - (6 * \exp(- \\
& 273/400) * \sin(1547/2000)) / 25, - (153 * \cos(391/500) * \exp(- \\
& 69/100)) / 80 - (6 * \exp(-69/100) * \sin(391/500)) / 25, - \\
& (153 * \cos(1581/2000) * \exp(-279/400)) / 80 - (6 * \exp(- \\
& 279/400) * \sin(1581/2000)) / 25, - (153 * \cos(799/1000) * \exp(- \\
& 141/200)) / 80 - (6 * \exp(-141/200) * \sin(799/1000)) / 25, - \\
& (153 * \cos(323/400) * \exp(-57/80)) / 80 - (6 * \exp(- \\
& 57/80) * \sin(323/400)) / 25, - (153 * \cos(102/125) * \exp(-18/25)) / 80 - \\
& (6 * \exp(-18/25) * \sin(102/125)) / 25, - (153 * \cos(1649/2000) * \exp(- \\
& 291/400)) / 80 - (6 * \exp(-291/400) * \sin(1649/2000)) / 25, - \\
& (153 * \cos(833/1000) * \exp(-147/200)) / 80 - (6 * \exp(- \\
& 147/200) * \sin(833/1000)) / 25, - (153 * \cos(1683/2000) * \exp(- \\
& 297/400)) / 80 - (6 * \exp(-297/400) * \sin(1683/2000)) / 25, - \\
& (153 * \cos(17/20) * \exp(-3/4)) / 80 - (6 * \exp(-3/4) * \sin(17/20)) / 25, - \\
& (153 * \cos(1717/2000) * \exp(-303/400)) / 80 - (6 * \exp(- \\
& 303/400) * \sin(1717/2000)) / 25, - (153 * \cos(867/1000) * \exp(- \\
& 153/200)) / 80 - (6 * \exp(-153/200) * \sin(867/1000)) / 25, - \\
& (153 * \cos(1751/2000) * \exp(-309/400)) / 80 - (6 * \exp(- \\
& 309/400) * \sin(1751/2000)) / 25, - (153 * \cos(221/250) * \exp(- \\
& 39/50)) / 80 - (6 * \exp(-39/50) * \sin(221/250)) / 25, - \\
& (153 * \cos(357/400) * \exp(-63/80)) / 80 - (6 * \exp(- \\
& 63/80) * \sin(357/400)) / 25, - (153 * \cos(901/1000) * \exp(- \\
& 159/200)) / 80 - (6 * \exp(-159/200) * \sin(901/1000)) / 25, - \\
& (153 * \cos(1819/2000) * \exp(-321/400)) / 80 - (6 * \exp(- \\
& 321/400) * \sin(1819/2000)) / 25, - (153 * \cos(459/500) * \exp(- \\
& 81/100)) / 80 - (6 * \exp(-81/100) * \sin(459/500)) / 25, - \\
& (153 * \cos(1853/2000) * \exp(-327/400)) / 80 - (6 * \exp(- \\
& 327/400) * \sin(1853/2000)) / 25, - (153 * \cos(187/200) * \exp(- \\
& 33/40)) / 80 - (6 * \exp(-33/40) * \sin(187/200)) / 25, - \\
& (153 * \cos(1887/2000) * \exp(-333/400)) / 80 - (6 * \exp(- \\
& 333/400) * \sin(1887/2000)) / 25, - (153 * \cos(119/125) * \exp(- \\
& 21/25)) / 80 - (6 * \exp(-21/25) * \sin(119/125)) / 25, - \\
& (153 * \cos(1921/2000) * \exp(-339/400)) / 80 - (6 * \exp(- \\
& 339/400) * \sin(1921/2000)) / 25, - (153 * \cos(969/1000) * \exp(- \\
& 171/200)) / 80 - (6 * \exp(-171/200) * \sin(969/1000)) / 25, - \\
& (153 * \cos(391/400) * \exp(-69/80)) / 80 - (6 * \exp(- \\
& 69/80) * \sin(391/400)) / 25, - (153 * \cos(493/500) * \exp(-87/100)) / 80 \\
& - (6 * \exp(-87/100) * \sin(493/500)) / 25, - \\
& (153 * \cos(1989/2000) * \exp(-351/400)) / 80 - (6 * \exp(- \\
& 351/400) * \sin(1989/2000)) / 25, - (153 * \cos(1003/1000) * \exp(- \\
& 177/200)) / 80 - (6 * \exp(-177/200) * \sin(1003/1000)) / 25, -
\end{aligned}$$

$(153 \cdot \cos(2023/2000) \cdot \exp(-357/400))/80 - (6 \cdot \exp(-357/400) \cdot \sin(2023/2000))/25, - (153 \cdot \cos(51/50) \cdot \exp(-9/10))/80 - (6 \cdot \exp(-9/10) \cdot \sin(51/50))/25, - (153 \cdot \cos(2057/2000) \cdot \exp(-363/400))/80 - (6 \cdot \exp(-363/400) \cdot \sin(2057/2000))/25, - (153 \cdot \cos(1037/1000) \cdot \exp(-183/200))/80 - (6 \cdot \exp(-183/200) \cdot \sin(1037/1000))/25, - (153 \cdot \cos(2091/2000) \cdot \exp(-369/400))/80 - (6 \cdot \exp(-369/400) \cdot \sin(2091/2000))/25, - (153 \cdot \cos(527/500) \cdot \exp(-93/100))/80 - (6 \cdot \exp(-93/100) \cdot \sin(527/500))/25, - (153 \cdot \cos(17/16) \cdot \exp(-15/16))/80 - (6 \cdot \exp(-15/16) \cdot \sin(17/16))/25, - (153 \cdot \cos(1071/1000) \cdot \exp(-189/200))/80 - (6 \cdot \exp(-189/200) \cdot \sin(1071/1000))/25, - (153 \cdot \cos(2159/2000) \cdot \exp(-381/400))/80 - (6 \cdot \exp(-381/400) \cdot \sin(2159/2000))/25, - (153 \cdot \cos(136/125) \cdot \exp(-24/25))/80 - (6 \cdot \exp(-24/25) \cdot \sin(136/125))/25, - (153 \cdot \cos(2193/2000) \cdot \exp(-387/400))/80 - (6 \cdot \exp(-387/400) \cdot \sin(2193/2000))/25, - (153 \cdot \cos(221/200) \cdot \exp(-39/40))/80 - (6 \cdot \exp(-39/40) \cdot \sin(221/200))/25, - (153 \cdot \cos(2227/2000) \cdot \exp(-393/400))/80 - (6 \cdot \exp(-393/400) \cdot \sin(2227/2000))/25, - (153 \cdot \cos(561/500) \cdot \exp(-99/100))/80 - (6 \cdot \exp(-99/100) \cdot \sin(561/500))/25, - (153 \cdot \cos(2261/2000) \cdot \exp(-399/400))/80 - (6 \cdot \exp(-399/400) \cdot \sin(2261/2000))/25, - (153 \cdot \cos(1139/1000) \cdot \exp(-201/200))/80 - (6 \cdot \exp(-201/200) \cdot \sin(1139/1000))/25, - (153 \cdot \cos(459/400) \cdot \exp(-81/80))/80 - (6 \cdot \exp(-81/80) \cdot \sin(459/400))/25, - (153 \cdot \cos(289/250) \cdot \exp(-51/50))/80 - (6 \cdot \exp(-51/50) \cdot \sin(289/250))/25, - (153 \cdot \cos(2329/2000) \cdot \exp(-411/400))/80 - (6 \cdot \exp(-411/400) \cdot \sin(2329/2000))/25, - (153 \cdot \cos(1173/1000) \cdot \exp(-207/200))/80 - (6 \cdot \exp(-207/200) \cdot \sin(1173/1000))/25, - (153 \cdot \cos(2363/2000) \cdot \exp(-417/400))/80 - (6 \cdot \exp(-417/400) \cdot \sin(2363/2000))/25, - (153 \cdot \cos(119/100) \cdot \exp(-21/20))/80 - (6 \cdot \exp(-21/20) \cdot \sin(119/100))/25, - (153 \cdot \cos(2397/2000) \cdot \exp(-423/400))/80 - (6 \cdot \exp(-423/400) \cdot \sin(2397/2000))/25, - (153 \cdot \cos(1207/1000) \cdot \exp(-213/200))/80 - (6 \cdot \exp(-213/200) \cdot \sin(1207/1000))/25, - (153 \cdot \cos(2431/2000) \cdot \exp(-429/400))/80 - (6 \cdot \exp(-429/400) \cdot \sin(2431/2000))/25, - (153 \cdot \cos(153/125) \cdot \exp(-27/25))/80 - (6 \cdot \exp(-27/25) \cdot \sin(153/125))/25, - (153 \cdot \cos(493/400) \cdot \exp(-87/80))/80 - (6 \cdot \exp(-87/80) \cdot \sin(493/400))/25, - (153 \cdot \cos(1241/1000) \cdot \exp(-219/200))/80 - (6 \cdot \exp(-219/200) \cdot \sin(1241/1000))/25, - (153 \cdot \cos(2499/2000) \cdot \exp(-441/400))/80 - (6 \cdot \exp(-441/400) \cdot \sin(2499/2000))/25, - (153 \cdot \cos(629/500) \cdot \exp(-111/100))/80 - (6 \cdot \exp(-111/100) \cdot \sin(629/500))/25, - (153 \cdot \cos(2533/2000) \cdot \exp(-447/400))/80 - (6 \cdot \exp(-447/400) \cdot \sin(2533/2000))/25, - (153 \cdot \cos(51/40) \cdot \exp(-9/8))/80 - (6 \cdot \exp(-9/8) \cdot \sin(51/40))/25, - (153 \cdot \cos(2567/2000) \cdot \exp(-453/400))/80 - (6 \cdot \exp(-453/400) \cdot \sin(2567/2000))/25, - (153 \cdot \cos(323/250) \cdot \exp(-57/50))/80 - (6 \cdot \exp(-57/50) \cdot \sin(323/250))/25, - (153 \cdot \cos(2601/2000) \cdot \exp(-459/400))/80 - (6 \cdot \exp(-459/400) \cdot \sin(2601/2000))/25, - (153 \cdot \cos(1309/1000) \cdot \exp(-231/200))/80 - (6 \cdot \exp(-$

$$\begin{aligned}
& 231/200) * \sin(1309/1000)) / 25, - (153 * \cos(527/400) * \exp(-93/80)) / 80 - (6 * \exp(-93/80) * \sin(527/400)) / 25, - \\
& (153 * \cos(663/500) * \exp(-117/100)) / 80 - (6 * \exp(-117/100) * \sin(663/500)) / 25, - (153 * \cos(2669/2000) * \exp(-471/400)) / 80 - (6 * \exp(-471/400) * \sin(2669/2000)) / 25, - \\
& (153 * \cos(1343/1000) * \exp(-237/200)) / 80 - (6 * \exp(-237/200) * \sin(1343/1000)) / 25, - (153 * \cos(2703/2000) * \exp(-477/400)) / 80 - (6 * \exp(-477/400) * \sin(2703/2000)) / 25, - \\
& (153 * \cos(34/25) * \exp(-6/5)) / 80 - (6 * \exp(-6/5) * \sin(34/25)) / 25, - (153 * \cos(2737/2000) * \exp(-483/400)) / 80 - (6 * \exp(-483/400) * \sin(2737/2000)) / 25, - (153 * \cos(1377/1000) * \exp(-243/200)) / 80 - (6 * \exp(-243/200) * \sin(1377/1000)) / 25, - \\
& (153 * \cos(2771/2000) * \exp(-489/400)) / 80 - (6 * \exp(-489/400) * \sin(2771/2000)) / 25, - (153 * \cos(697/500) * \exp(-123/100)) / 80 - (6 * \exp(-123/100) * \sin(697/500)) / 25, - \\
& (153 * \cos(561/400) * \exp(-99/80)) / 80 - (6 * \exp(-99/80) * \sin(561/400)) / 25, - (153 * \cos(1411/1000) * \exp(-249/200)) / 80 - (6 * \exp(-249/200) * \sin(1411/1000)) / 25, - \\
& (153 * \cos(2839/2000) * \exp(-501/400)) / 80 - (6 * \exp(-501/400) * \sin(2839/2000)) / 25, - (153 * \cos(357/250) * \exp(-63/50)) / 80 - (6 * \exp(-63/50) * \sin(357/250)) / 25, - \\
& (153 * \cos(2873/2000) * \exp(-507/400)) / 80 - (6 * \exp(-507/400) * \sin(2873/2000)) / 25, - (153 * \cos(289/200) * \exp(-51/40)) / 80 - (6 * \exp(-51/40) * \sin(289/200)) / 25, - \\
& (153 * \cos(2907/2000) * \exp(-513/400)) / 80 - (6 * \exp(-513/400) * \sin(2907/2000)) / 25, - (153 * \cos(731/500) * \exp(-129/100)) / 80 - (6 * \exp(-129/100) * \sin(731/500)) / 25, - \\
& (153 * \cos(2941/2000) * \exp(-519/400)) / 80 - (6 * \exp(-519/400) * \sin(2941/2000)) / 25, - (153 * \cos(1479/1000) * \exp(-261/200)) / 80 - (6 * \exp(-261/200) * \sin(1479/1000)) / 25, - \\
& (153 * \cos(119/80) * \exp(-21/16)) / 80 - (6 * \exp(-21/16) * \sin(119/80)) / 25, - (153 * \cos(187/125) * \exp(-33/25)) / 80 - (6 * \exp(-33/25) * \sin(187/125)) / 25, - (153 * \cos(3009/2000) * \exp(-531/400)) / 80 - (6 * \exp(-531/400) * \sin(3009/2000)) / 25, - \\
& (153 * \cos(1513/1000) * \exp(-267/200)) / 80 - (6 * \exp(-267/200) * \sin(1513/1000)) / 25, - (153 * \cos(3043/2000) * \exp(-537/400)) / 80 - (6 * \exp(-537/400) * \sin(3043/2000)) / 25, - \\
& (153 * \cos(153/100) * \exp(-27/20)) / 80 - (6 * \exp(-27/20) * \sin(153/100)) / 25, - (153 * \cos(3077/2000) * \exp(-543/400)) / 80 - (6 * \exp(-543/400) * \sin(3077/2000)) / 25, - \\
& (153 * \cos(1547/1000) * \exp(-273/200)) / 80 - (6 * \exp(-273/200) * \sin(1547/1000)) / 25, - (153 * \cos(3111/2000) * \exp(-549/400)) / 80 - (6 * \exp(-549/400) * \sin(3111/2000)) / 25, - \\
& (153 * \cos(391/250) * \exp(-69/50)) / 80 - (6 * \exp(-69/50) * \sin(391/250)) / 25, - (153 * \cos(629/400) * \exp(-111/80)) / 80 - (6 * \exp(-111/80) * \sin(629/400)) / 25, - \\
& (153 * \cos(1581/1000) * \exp(-279/200)) / 80 - (6 * \exp(-279/200) * \sin(1581/1000)) / 25, - (153 * \cos(3179/2000) * \exp(-561/400)) / 80 - (6 * \exp(-561/400) * \sin(3179/2000)) / 25, - \\
& (153 * \cos(799/500) * \exp(-141/100)) / 80 - (6 * \exp(-141/100) * \sin(799/500)) / 25, - (153 * \cos(3213/2000) * \exp(-
\end{aligned}$$

$$\begin{aligned}
& 567/400)/80 - (6*\exp(-567/400)*\sin(3213/2000))/25, - \\
& (153*\cos(323/200)*\exp(-57/40))/80 - (6*\exp(- \\
& 57/40)*\sin(323/200))/25, - (153*\cos(3247/2000)*\exp(- \\
& 573/400))/80 - (6*\exp(-573/400)*\sin(3247/2000))/25, - \\
& (153*\cos(204/125)*\exp(-36/25))/80 - (6*\exp(- \\
& 36/25)*\sin(204/125))/25, - (153*\cos(3281/2000)*\exp(- \\
& 579/400))/80 - (6*\exp(-579/400)*\sin(3281/2000))/25, - \\
& (153*\cos(1649/1000)*\exp(-291/200))/80 - (6*\exp(- \\
& 291/200)*\sin(1649/1000))/25, - (153*\cos(663/400)*\exp(- \\
& 117/80))/80 - (6*\exp(-117/80)*\sin(663/400))/25, - \\
& (153*\cos(833/500)*\exp(-147/100))/80 - (6*\exp(- \\
& 147/100)*\sin(833/500))/25, - (153*\cos(3349/2000)*\exp(- \\
& 591/400))/80 - (6*\exp(-591/400)*\sin(3349/2000))/25, - \\
& (153*\cos(1683/1000)*\exp(-297/200))/80 - (6*\exp(- \\
& 297/200)*\sin(1683/1000))/25, - (153*\cos(3383/2000)*\exp(- \\
& 597/400))/80 - (6*\exp(-597/400)*\sin(3383/2000))/25, - \\
& (153*\cos(17/10)*\exp(-3/2))/80 - (6*\exp(-3/2)*\sin(17/10))/25, - \\
& (153*\cos(3417/2000)*\exp(-603/400))/80 - (6*\exp(- \\
& 603/400)*\sin(3417/2000))/25, - (153*\cos(1717/1000)*\exp(- \\
& 303/200))/80 - (6*\exp(-303/200)*\sin(1717/1000))/25, - \\
& (153*\cos(3451/2000)*\exp(-609/400))/80 - (6*\exp(- \\
& 609/400)*\sin(3451/2000))/25, - (153*\cos(867/500)*\exp(- \\
& 153/100))/80 - (6*\exp(-153/100)*\sin(867/500))/25, - \\
& (153*\cos(697/400)*\exp(-123/80))/80 - (6*\exp(- \\
& 123/80)*\sin(697/400))/25, - (153*\cos(1751/1000)*\exp(- \\
& 309/200))/80 - (6*\exp(-309/200)*\sin(1751/1000))/25, - \\
& (153*\cos(3519/2000)*\exp(-621/400))/80 - (6*\exp(- \\
& 621/400)*\sin(3519/2000))/25, - (153*\cos(221/125)*\exp(- \\
& 39/25))/80 - (6*\exp(-39/25)*\sin(221/125))/25, - \\
& (153*\cos(3553/2000)*\exp(-627/400))/80 - (6*\exp(- \\
& 627/400)*\sin(3553/2000))/25, - (153*\cos(357/200)*\exp(- \\
& 63/40))/80 - (6*\exp(-63/40)*\sin(357/200))/25, - \\
& (153*\cos(3587/2000)*\exp(-633/400))/80 - (6*\exp(- \\
& 633/400)*\sin(3587/2000))/25, - (153*\cos(901/500)*\exp(- \\
& 159/100))/80 - (6*\exp(-159/100)*\sin(901/500))/25, - \\
& (153*\cos(3621/2000)*\exp(-639/400))/80 - (6*\exp(- \\
& 639/400)*\sin(3621/2000))/25, - (153*\cos(1819/1000)*\exp(- \\
& 321/200))/80 - (6*\exp(-321/200)*\sin(1819/1000))/25, - \\
& (153*\cos(731/400)*\exp(-129/80))/80 - (6*\exp(- \\
& 129/80)*\sin(731/400))/25, - (153*\cos(459/250)*\exp(-81/50))/80 \\
& - (6*\exp(-81/50)*\sin(459/250))/25, - (153*\cos(3689/2000)*\exp(- \\
& 651/400))/80 - (6*\exp(-651/400)*\sin(3689/2000))/25, - \\
& (153*\cos(1853/1000)*\exp(-327/200))/80 - (6*\exp(- \\
& 327/200)*\sin(1853/1000))/25, - (153*\cos(3723/2000)*\exp(- \\
& 657/400))/80 - (6*\exp(-657/400)*\sin(3723/2000))/25, - \\
& (153*\cos(187/100)*\exp(-33/20))/80 - (6*\exp(- \\
& 33/20)*\sin(187/100))/25, - (153*\cos(3757/2000)*\exp(- \\
& 663/400))/80 - (6*\exp(-663/400)*\sin(3757/2000))/25, - \\
& (153*\cos(1887/1000)*\exp(-333/200))/80 - (6*\exp(- \\
& 333/200)*\sin(1887/1000))/25, - (153*\cos(3791/2000)*\exp(- \\
& 669/400))/80 - (6*\exp(-669/400)*\sin(3791/2000))/25, -
\end{aligned}$$

$$\begin{aligned}
& (153 \cos(238/125) \exp(-42/25))/80 - (6 \exp(-42/25) \sin(238/125))/25, - (153 \cos(153/80) \exp(-27/16))/80 - \\
& (6 \exp(-27/16) \sin(153/80))/25, - (153 \cos(1921/1000) \exp(-339/200))/80 - (6 \exp(-339/200) \sin(1921/1000))/25, - \\
& (153 \cos(3859/2000) \exp(-681/400))/80 - (6 \exp(-681/400) \sin(3859/2000))/25, - (153 \cos(969/500) \exp(-171/100))/80 - (6 \exp(-171/100) \sin(969/500))/25, - \\
& (153 \cos(3893/2000) \exp(-687/400))/80 - (6 \exp(-687/400) \sin(3893/2000))/25, - (153 \cos(391/200) \exp(-69/40))/80 - (6 \exp(-69/40) \sin(391/200))/25, - \\
& (153 \cos(3927/2000) \exp(-693/400))/80 - (6 \exp(-693/400) \sin(3927/2000))/25, - (153 \cos(493/250) \exp(-87/50))/80 - (6 \exp(-87/50) \sin(493/250))/25, - \\
& (153 \cos(3961/2000) \exp(-699/400))/80 - (6 \exp(-699/400) \sin(3961/2000))/25, - (153 \cos(1989/1000) \exp(-351/200))/80 - (6 \exp(-351/200) \sin(1989/1000))/25, - \\
& (153 \cos(799/400) \exp(-141/80))/80 - (6 \exp(-141/80) \sin(799/400))/25, - (153 \cos(1003/500) \exp(-177/100))/80 - (6 \exp(-177/100) \sin(1003/500))/25, - \\
& (153 \cos(4029/2000) \exp(-711/400))/80 - (6 \exp(-711/400) \sin(4029/2000))/25, - (153 \cos(2023/1000) \exp(-357/200))/80 - (6 \exp(-357/200) \sin(2023/1000))/25, - \\
& (153 \cos(4063/2000) \exp(-717/400))/80 - (6 \exp(-717/400) \sin(4063/2000))/25, - (153 \cos(51/25) \exp(-9/5))/80 - (6 \exp(-9/5) \sin(51/25))/25, - (153 \cos(4097/2000) \exp(-723/400))/80 - (6 \exp(-723/400) \sin(4097/2000))/25, - \\
& (153 \cos(2057/1000) \exp(-363/200))/80 - (6 \exp(-363/200) \sin(2057/1000))/25, - (153 \cos(4131/2000) \exp(-729/400))/80 - (6 \exp(-729/400) \sin(4131/2000))/25, - \\
& (153 \cos(1037/500) \exp(-183/100))/80 - (6 \exp(-183/100) \sin(1037/500))/25, - (153 \cos(833/400) \exp(-147/80))/80 - (6 \exp(-147/80) \sin(833/400))/25, - \\
& (153 \cos(2091/1000) \exp(-369/200))/80 - (6 \exp(-369/200) \sin(2091/1000))/25, - (153 \cos(4199/2000) \exp(-741/400))/80 - (6 \exp(-741/400) \sin(4199/2000))/25, - \\
& (153 \cos(527/250) \exp(-93/50))/80 - (6 \exp(-93/50) \sin(527/250))/25, - (153 \cos(4233/2000) \exp(-747/400))/80 - (6 \exp(-747/400) \sin(4233/2000))/25, - \\
& (153 \cos(17/8) \exp(-15/8))/80 - (6 \exp(-15/8) \sin(17/8))/25]
\end{aligned}$$

ans =

'location'

ans =

'best'

(C)

```
commandwindow
clear
clc
syms x
y = (5*sin(5*x))^5
V = int(pi*(y^2))
int(5*sin(5*x)^5, 0, pi)
y =

3125*sin(5*x)^5

V =

(390625*pi*(12600*x - 2100*sin(10*x) + 600*sin(20*x) -
150*sin(30*x) + 25*sin(40*x) - 2*sin(50*x)))/2048

ans =

16/15

>>Vintd =

1.066666666666667
```