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MATRIC NO: 16/ENG03/035

QUESTION 4

A

COMMANDS

```
commandwindow  
clear  
clc  
A = [0,10,4,-2; -3,-17,1,2; 1,1,1,0; 8,-34,16,-10]  
B = [-4; 2; 6; 4]  
S = inv(A)  
X = S * B
```

RESULTS

A =

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

B =

-4

2

6

4

S =

-0.1786 -0.1020 0.5714 0.0153

0.0357 -0.0153 0.0357 -0.0102

0.1429 0.1173 0.3929 -0.0051

-0.0357 0.1582 0.9643 -0.0612

X =

4.0000

-0.0000

2.0000

6.0000

B

COMMANDS

```
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)
figure(1)
plot(tn,dn)
xlabel('Time(min)')
ylabel('Distance(m)')
axis tight
grid on
grid minor
v = diff(d)
vn = subs(v,tn)
figure(2)
plot(tn,vn)
xlabel('Time(min)')
ylabel('Velocity(m/min)')
grid on
grid minor
axis tight
a = diff(v)
an = subs(a,tn)
figure(3)
plot(tn,an)
xlabel('Time(min)')
ylabel('Acceleration(m/min^2)')
```

```

grid on
grid minor
axis tight
figure(4)
plot(tn,dn,tn,vn,tn,an)
xlabel('Time(min)')
ylabel('Variable')
axis tight
grid on
grid minor
legend('Distance(m)', 'Velocity(m/min)', 'Acceleration(m/min^2)')

```

RESULTS

d =

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

tn =

Columns 1 through 12

0	0.0100	0.0200	0.0300	0.0400	0.0500	0.0600	0.0700
0.0800	0.0900	0.1000	0.1100				

Columns 13 through 24

0.1200 0.1300 0.1400 0.1500 0.1600 0.1700 0.1800
0.1900 0.2000 0.2100 0.2200 0.2300

Columns 25 through 36

0.2400 0.2500 0.2600 0.2700 0.2800 0.2900 0.3000
0.3100 0.3200 0.3300 0.3400 0.3500

Columns 37 through 48

0.3600 0.3700 0.3800 0.3900 0.4000 0.4100 0.4200
0.4300 0.4400 0.4500 0.4600 0.4700

Columns 49 through 60

0.4800 0.4900 0.5000 0.5100 0.5200 0.5300 0.5400
0.5500 0.5600 0.5700 0.5800 0.5900

Columns 61 through 72

0.6000 0.6100 0.6200 0.6300 0.6400 0.6500 0.6600
0.6700 0.6800 0.6900 0.7000 0.7100

Columns 73 through 84

0.7200 0.7300 0.7400 0.7500 0.7600 0.7700 0.7800
0.7900 0.8000 0.8100 0.8200 0.8300

Columns 85 through 96

0.8400 0.8500 0.8600 0.8700 0.8800 0.8900 0.9000
0.9100 0.9200 0.9300 0.9400 0.9500

Columns 97 through 108

0.9600 0.9700 0.9800 0.9900 1.0000 1.0100 1.0200
1.0300 1.0400 1.0500 1.0600 1.0700

Columns 109 through 120

1.0800 1.0900 1.1000 1.1100 1.1200 1.1300 1.1400
1.1500 1.1600 1.1700 1.1800 1.1900

Columns 121 through 132

1.2000 1.2100 1.2200 1.2300 1.2400 1.2500 1.2600
1.2700 1.2800 1.2900 1.3000 1.3100

Columns 133 through 144

1.3200 1.3300 1.3400 1.3500 1.3600 1.3700 1.3800
1.3900 1.4000 1.4100 1.4200 1.4300

Columns 145 through 156

1.4400 1.4500 1.4600 1.4700 1.4800 1.4900 1.5000
1.5100 1.5200 1.5300 1.5400 1.5500

Columns 157 through 168

1.5600 1.5700 1.5800 1.5900 1.6000 1.6100 1.6200
1.6300 1.6400 1.6500 1.6600 1.6700

Columns 169 through 180

1.6800 1.6900 1.7000 1.7100 1.7200 1.7300 1.7400
1.7500 1.7600 1.7700 1.7800 1.7900

Columns 181 through 192

1.8000 1.8100 1.8200 1.8300 1.8400 1.8500 1.8600
1.8700 1.8800 1.8900 1.9000 1.9100

Columns 193 through 204

1.9200 1.9300 1.9400 1.9500 1.9600 1.9700 1.9800
1.9900 2.0000 2.0100 2.0200 2.0300

Columns 205 through 216

2.0400 2.0500 2.0600 2.0700 2.0800 2.0900 2.1000
2.1100 2.1200 2.1300 2.1400 2.1500

Columns 217 through 228

2.1600 2.1700 2.1800 2.1900 2.2000 2.2100 2.2200
2.2300 2.2400 2.2500 2.2600 2.2700

Columns 229 through 240

2.2800 2.2900 2.3000 2.3100 2.3200 2.3300 2.3400
2.3500 2.3600 2.3700 2.3800 2.3900

Columns 241 through 251

2.4000 2.4100 2.4200 2.4300 2.4400 2.4500 2.4600
2.4700 2.4800 2.4900 2.5000

dn =

[0, (3*exp(-3/400)*sin(17/2000))/2 + 3/800, (3*exp(-3/200)*sin(17/1000))/2 + 3/400, (3*exp(-9/400)*sin(51/2000))/2 + 9/800, (3*exp(-3/100)*sin(17/500))/2 + 3/200, (3*exp(-3/80)*sin(17/400))/2 + 3/160, (3*exp(-9/200)*sin(51/1000))/2 + 9/400, (3*exp(-21/400)*sin(119/2000))/2 + 21/800, (3*exp(-3/50)*sin(17/250))/2 + 3/100, (3*exp(-27/400)*sin(153/2000))/2 + 27/800, (3*exp(-3/40)*sin(17/200))/2 + 3/80, (3*exp(-33/400)*sin(187/2000))/2 + 33/800, (3*exp(-9/100)*sin(51/500))/2 + 9/200, (3*exp(-39/400)*sin(221/2000))/2 + 39/800, (3*exp(-21/200)*sin(119/1000))/2 + 21/400, (3*exp(-9/80)*sin(51/400))/2 + 9/160, (3*exp(-3/25)*sin(17/125))/2 + 3/50, (3*exp(-51/400)*sin(289/2000))/2 + 51/800, (3*exp(-27/200)*sin(153/1000))/2 + 27/400, (3*exp(-57/400)*sin(323/2000))/2 + 57/800, (3*exp(-

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

$93/200) * \sin(527/1000))/2 + 93/400, (3 * \exp(-$
 $189/400) * \sin(1071/2000))/2 + 189/800, (3 * \exp(-12/25) * \sin(68/125))/2$
 $+ 6/25, (3 * \exp(-39/80) * \sin(221/400))/2 + 39/160, (3 * \exp(-$
 $99/200) * \sin(561/1000))/2 + 99/400, (3 * \exp(-$
 $201/400) * \sin(1139/2000))/2 + 201/800, (3 * \exp(-$
 $51/100) * \sin(289/500))/2 + 51/200, (3 * \exp(-$
 $207/400) * \sin(1173/2000))/2 + 207/800, (3 * \exp(-$
 $21/40) * \sin(119/200))/2 + 21/80, (3 * \exp(-213/400) * \sin(1207/2000))/2 +$
 $213/800, (3 * \exp(-27/50) * \sin(153/250))/2 + 27/100, (3 * \exp(-$
 $219/400) * \sin(1241/2000))/2 + 219/800, (3 * \exp(-$
 $111/200) * \sin(629/1000))/2 + 111/400, (3 * \exp(-9/16) * \sin(51/80))/2 +$
 $9/32, (3 * \exp(-57/100) * \sin(323/500))/2 + 57/200, (3 * \exp(-$
 $231/400) * \sin(1309/2000))/2 + 231/800, (3 * \exp(-$
 $117/200) * \sin(663/1000))/2 + 117/400, (3 * \exp(-$
 $237/400) * \sin(1343/2000))/2 + 237/800, (3 * \exp(-3/5) * \sin(17/25))/2 +$
 $3/10, (3 * \exp(-243/400) * \sin(1377/2000))/2 + 243/800, (3 * \exp(-$
 $123/200) * \sin(697/1000))/2 + 123/400, (3 * \exp(-$
 $249/400) * \sin(1411/2000))/2 + 249/800, (3 * \exp(-$
 $63/100) * \sin(357/500))/2 + 63/200, (3 * \exp(-51/80) * \sin(289/400))/2 +$
 $51/160, (3 * \exp(-129/200) * \sin(731/1000))/2 + 129/400, (3 * \exp(-$
 $261/400) * \sin(1479/2000))/2 + 261/800, (3 * \exp(-$
 $33/50) * \sin(187/250))/2 + 33/100, (3 * \exp(-267/400) * \sin(1513/2000))/2$
 $+ 267/800, (3 * \exp(-27/40) * \sin(153/200))/2 + 27/80, (3 * \exp(-$
 $273/400) * \sin(1547/2000))/2 + 273/800, (3 * \exp(-$
 $69/100) * \sin(391/500))/2 + 69/200, (3 * \exp(-$
 $279/400) * \sin(1581/2000))/2 + 279/800, (3 * \exp(-$
 $141/200) * \sin(799/1000))/2 + 141/400, (3 * \exp(-57/80) * \sin(323/400))/2$
 $+ 57/160, (3 * \exp(-18/25) * \sin(102/125))/2 + 9/25, (3 * \exp(-$
 $291/400) * \sin(1649/2000))/2 + 291/800, (3 * \exp(-$
 $147/200) * \sin(833/1000))/2 + 147/400, (3 * \exp(-$

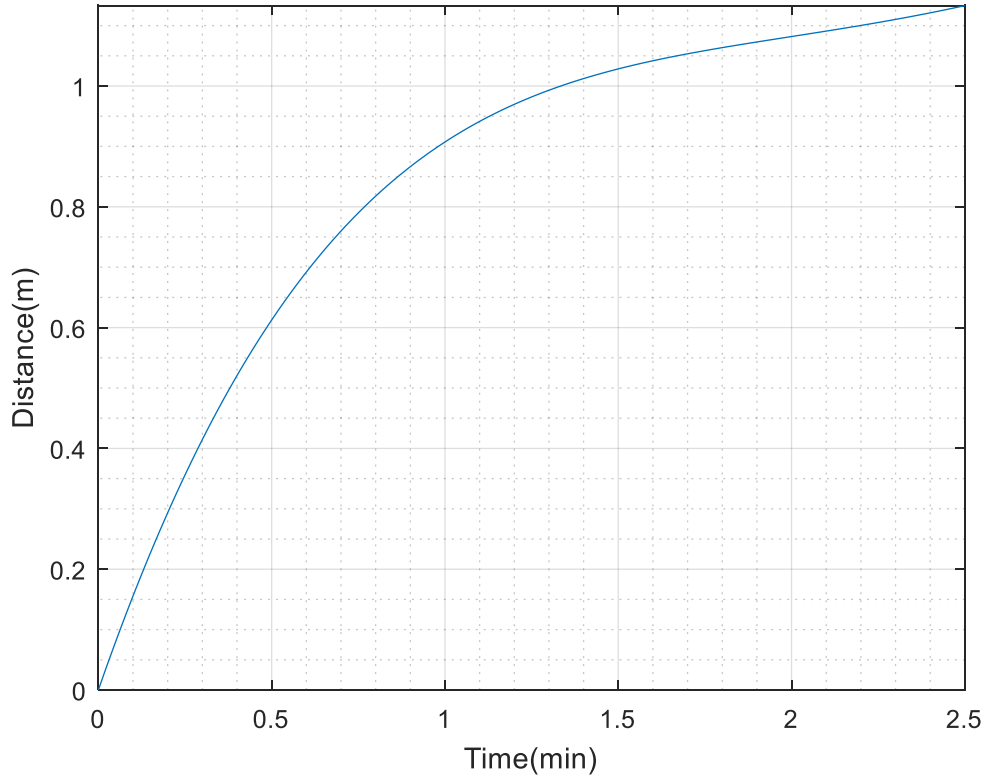
$297/400) * \sin(1683/2000))/2 + 297/800, (3 * \exp(-3/4) * \sin(17/20))/2 +$
 $3/8, (3 * \exp(-303/400) * \sin(1717/2000))/2 + 303/800, (3 * \exp(-$
 $153/200) * \sin(867/1000))/2 + 153/400, (3 * \exp(-$
 $309/400) * \sin(1751/2000))/2 + 309/800, (3 * \exp(-$
 $39/50) * \sin(221/250))/2 + 39/100, (3 * \exp(-63/80) * \sin(357/400))/2 +$
 $63/160, (3 * \exp(-159/200) * \sin(901/1000))/2 + 159/400, (3 * \exp(-$
 $321/400) * \sin(1819/2000))/2 + 321/800, (3 * \exp(-$
 $81/100) * \sin(459/500))/2 + 81/200, (3 * \exp(-$
 $327/400) * \sin(1853/2000))/2 + 327/800, (3 * \exp(-$
 $33/40) * \sin(187/200))/2 + 33/80, (3 * \exp(-333/400) * \sin(1887/2000))/2 +$
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 $171/200) * \sin(969/1000))/2 + 171/400, (3 * \exp(-69/80) * \sin(391/400))/2$
 $+ 69/160, (3 * \exp(-87/100) * \sin(493/500))/2 + 87/200, (3 * \exp(-$
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 $9/20, (3 * \exp(-363/400) * \sin(2057/2000))/2 + 363/800, (3 * \exp(-$
 $183/200) * \sin(1037/1000))/2 + 183/400, (3 * \exp(-$
 $369/400) * \sin(2091/2000))/2 + 369/800, (3 * \exp(-$
 $93/100) * \sin(527/500))/2 + 93/200, (3 * \exp(-15/16) * \sin(17/16))/2 +$
 $15/32, (3 * \exp(-189/200) * \sin(1071/1000))/2 + 189/400, (3 * \exp(-$
 $381/400) * \sin(2159/2000))/2 + 381/800, (3 * \exp(-$
 $24/25) * \sin(136/125))/2 + 12/25, (3 * \exp(-387/400) * \sin(2193/2000))/2 +$
 $387/800, (3 * \exp(-39/40) * \sin(221/200))/2 + 39/80, (3 * \exp(-$
 $393/400) * \sin(2227/2000))/2 + 393/800, (3 * \exp(-$
 $99/100) * \sin(561/500))/2 + 99/200, (3 * \exp(-$
 $399/400) * \sin(2261/2000))/2 + 399/800, (3 * \exp(-$
 $201/200) * \sin(1139/1000))/2 + 201/400, (3 * \exp(-$
 $81/80) * \sin(459/400))/2 + 81/160, (3 * \exp(-51/50) * \sin(289/250))/2 +$

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 =

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

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

$(51 \cdot \cos(833/2000) \cdot \exp(-147/400))/40 - (9 \cdot \exp(-147/400) \cdot \sin(833/2000))/8 + 3/8$, $(51 \cdot \cos(17/40) \cdot \exp(-3/8))/40 - (9 \cdot \exp(-3/8) \cdot \sin(17/40))/8 + 3/8$, $(51 \cdot \cos(867/2000) \cdot \exp(-153/400))/40 - (9 \cdot \exp(-153/400) \cdot \sin(867/2000))/8 + 3/8$, $(51 \cdot \cos(221/500) \cdot \exp(-39/100))/40 - (9 \cdot \exp(-39/100) \cdot \sin(221/500))/8 + 3/8$, $(51 \cdot \cos(901/2000) \cdot \exp(-159/400))/40 - (9 \cdot \exp(-159/400) \cdot \sin(901/2000))/8 + 3/8$, $(51 \cdot \cos(459/1000) \cdot \exp(-81/200))/40 - (9 \cdot \exp(-81/200) \cdot \sin(459/1000))/8 + 3/8$, $(51 \cdot \cos(187/400) \cdot \exp(-33/80))/40 - (9 \cdot \exp(-33/80) \cdot \sin(187/400))/8 + 3/8$, $(51 \cdot \cos(119/250) \cdot \exp(-21/50))/40 - (9 \cdot \exp(-21/50) \cdot \sin(119/250))/8 + 3/8$, $(51 \cdot \cos(969/2000) \cdot \exp(-171/400))/40 - (9 \cdot \exp(-171/400) \cdot \sin(969/2000))/8 + 3/8$, $(51 \cdot \cos(493/1000) \cdot \exp(-87/200))/40 - (9 \cdot \exp(-87/200) \cdot \sin(493/1000))/8 + 3/8$, $(51 \cdot \cos(1003/2000) \cdot \exp(-177/400))/40 - (9 \cdot \exp(-177/400) \cdot \sin(1003/2000))/8 + 3/8$, $(51 \cdot \cos(51/100) \cdot \exp(-9/20))/40 - (9 \cdot \exp(-9/20) \cdot \sin(51/100))/8 + 3/8$, $(51 \cdot \cos(1037/2000) \cdot \exp(-183/400))/40 - (9 \cdot \exp(-183/400) \cdot \sin(1037/2000))/8 + 3/8$, $(51 \cdot \cos(527/1000) \cdot \exp(-93/200))/40 - (9 \cdot \exp(-93/200) \cdot \sin(527/1000))/8 + 3/8$, $(51 \cdot \cos(1071/2000) \cdot \exp(-189/400))/40 - (9 \cdot \exp(-189/400) \cdot \sin(1071/2000))/8 + 3/8$, $(51 \cdot \cos(68/125) \cdot \exp(-12/25))/40 - (9 \cdot \exp(-12/25) \cdot \sin(68/125))/8 + 3/8$, $(51 \cdot \cos(221/400) \cdot \exp(-39/80))/40 - (9 \cdot \exp(-39/80) \cdot \sin(221/400))/8 + 3/8$, $(51 \cdot \cos(561/1000) \cdot \exp(-99/200))/40 - (9 \cdot \exp(-99/200) \cdot \sin(561/1000))/8 + 3/8$, $(51 \cdot \cos(1139/2000) \cdot \exp(-201/400))/40 - (9 \cdot \exp(-201/400) \cdot \sin(1139/2000))/8 + 3/8$, $(51 \cdot \cos(289/500) \cdot \exp(-51/100))/40 - (9 \cdot \exp(-51/100) \cdot \sin(289/500))/8 + 3/8$, $(51 \cdot \cos(1173/2000) \cdot \exp(-207/400))/40 - (9 \cdot \exp(-207/400) \cdot \sin(1173/2000))/8 + 3/8$, $(51 \cdot \cos(119/200) \cdot \exp(-21/40))/40 - (9 \cdot \exp(-21/40) \cdot \sin(119/200))/8 + 3/8$, $(51 \cdot \cos(1207/2000) \cdot \exp(-213/400))/40 - (9 \cdot \exp(-213/400) \cdot \sin(1207/2000))/8 + 3/8$,

$(51 \cdot \cos(153/250) \cdot \exp(-27/50))/40 - (9 \cdot \exp(-27/50) \cdot \sin(153/250))/8 + 3/8,$
 $(51 \cdot \cos(1241/2000) \cdot \exp(-219/400))/40 - (9 \cdot \exp(-219/400) \cdot \sin(1241/2000))/8 + 3/8,$
 $(51 \cdot \cos(629/1000) \cdot \exp(-111/200))/40 - (9 \cdot \exp(-111/200) \cdot \sin(629/1000))/8 + 3/8,$
 $(51 \cdot \cos(51/80) \cdot \exp(-9/16))/40 - (9 \cdot \exp(-9/16) \cdot \sin(51/80))/8 + 3/8,$
 $(51 \cdot \cos(323/500) \cdot \exp(-57/100))/40 - (9 \cdot \exp(-57/100) \cdot \sin(323/500))/8 + 3/8,$
 $(51 \cdot \cos(1309/2000) \cdot \exp(-231/400))/40 - (9 \cdot \exp(-231/400) \cdot \sin(1309/2000))/8 + 3/8,$
 $(51 \cdot \cos(663/1000) \cdot \exp(-117/200))/40 - (9 \cdot \exp(-117/200) \cdot \sin(663/1000))/8 + 3/8,$
 $(51 \cdot \cos(1343/2000) \cdot \exp(-237/400))/40 - (9 \cdot \exp(-237/400) \cdot \sin(1343/2000))/8 + 3/8,$
 $(51 \cdot \cos(17/25) \cdot \exp(-3/5))/40 - (9 \cdot \exp(-3/5) \cdot \sin(17/25))/8 + 3/8,$
 $(51 \cdot \cos(1377/2000) \cdot \exp(-243/400))/40 - (9 \cdot \exp(-243/400) \cdot \sin(1377/2000))/8 + 3/8,$
 $(51 \cdot \cos(697/1000) \cdot \exp(-123/200))/40 - (9 \cdot \exp(-123/200) \cdot \sin(697/1000))/8 + 3/8,$
 $(51 \cdot \cos(1411/2000) \cdot \exp(-249/400))/40 - (9 \cdot \exp(-249/400) \cdot \sin(1411/2000))/8 + 3/8,$
 $(51 \cdot \cos(357/500) \cdot \exp(-63/100))/40 - (9 \cdot \exp(-63/100) \cdot \sin(357/500))/8 + 3/8,$
 $(51 \cdot \cos(289/400) \cdot \exp(-51/80))/40 - (9 \cdot \exp(-51/80) \cdot \sin(289/400))/8 + 3/8,$
 $(51 \cdot \cos(731/1000) \cdot \exp(-129/200))/40 - (9 \cdot \exp(-129/200) \cdot \sin(731/1000))/8 + 3/8,$
 $(51 \cdot \cos(1479/2000) \cdot \exp(-261/400))/40 - (9 \cdot \exp(-261/400) \cdot \sin(1479/2000))/8 + 3/8,$
 $(51 \cdot \cos(187/250) \cdot \exp(-33/50))/40 - (9 \cdot \exp(-33/50) \cdot \sin(187/250))/8 + 3/8,$
 $(51 \cdot \cos(1513/2000) \cdot \exp(-267/400))/40 - (9 \cdot \exp(-267/400) \cdot \sin(1513/2000))/8 + 3/8,$
 $(51 \cdot \cos(153/200) \cdot \exp(-27/40))/40 - (9 \cdot \exp(-27/40) \cdot \sin(153/200))/8 + 3/8,$
 $(51 \cdot \cos(1547/2000) \cdot \exp(-273/400))/40 - (9 \cdot \exp(-273/400) \cdot \sin(1547/2000))/8 + 3/8,$
 $(51 \cdot \cos(391/500) \cdot \exp(-69/100))/40 - (9 \cdot \exp(-69/100) \cdot \sin(391/500))/8 + 3/8,$
 $(51 \cdot \cos(1581/2000) \cdot \exp(-279/400))/40 - (9 \cdot \exp(-279/400) \cdot \sin(1581/2000))/8 + 3/8,$
 $(51 \cdot \cos(799/1000) \cdot \exp(-141/200))/40 - (9 \cdot \exp(-141/200) \cdot \sin(799/1000))/8 + 3/8,$

$(51 \cdot \cos(323/400) \cdot \exp(-57/80))/40 - (9 \cdot \exp(-57/80) \cdot \sin(323/400))/8 + 3/8,$
 $(51 \cdot \cos(102/125) \cdot \exp(-18/25))/40 - (9 \cdot \exp(-18/25) \cdot \sin(102/125))/8 + 3/8,$
 $(51 \cdot \cos(1649/2000) \cdot \exp(-291/400))/40 - (9 \cdot \exp(-291/400) \cdot \sin(1649/2000))/8 + 3/8,$
 $(51 \cdot \cos(833/1000) \cdot \exp(-147/200))/40 - (9 \cdot \exp(-147/200) \cdot \sin(833/1000))/8 + 3/8,$
 $(51 \cdot \cos(1683/2000) \cdot \exp(-297/400))/40 - (9 \cdot \exp(-297/400) \cdot \sin(1683/2000))/8 + 3/8,$
 $(51 \cdot \cos(17/20) \cdot \exp(-3/4))/40 - (9 \cdot \exp(-3/4) \cdot \sin(17/20))/8 + 3/8,$
 $(51 \cdot \cos(1717/2000) \cdot \exp(-303/400))/40 - (9 \cdot \exp(-303/400) \cdot \sin(1717/2000))/8 + 3/8,$
 $(51 \cdot \cos(867/1000) \cdot \exp(-153/200))/40 - (9 \cdot \exp(-153/200) \cdot \sin(867/1000))/8 + 3/8,$
 $(51 \cdot \cos(1751/2000) \cdot \exp(-309/400))/40 - (9 \cdot \exp(-309/400) \cdot \sin(1751/2000))/8 + 3/8,$
 $(51 \cdot \cos(221/250) \cdot \exp(-39/50))/40 - (9 \cdot \exp(-39/50) \cdot \sin(221/250))/8 + 3/8,$
 $(51 \cdot \cos(357/400) \cdot \exp(-63/80))/40 - (9 \cdot \exp(-63/80) \cdot \sin(357/400))/8 + 3/8,$
 $(51 \cdot \cos(901/1000) \cdot \exp(-159/200))/40 - (9 \cdot \exp(-159/200) \cdot \sin(901/1000))/8 + 3/8,$
 $(51 \cdot \cos(1819/2000) \cdot \exp(-321/400))/40 - (9 \cdot \exp(-321/400) \cdot \sin(1819/2000))/8 + 3/8,$
 $(51 \cdot \cos(459/500) \cdot \exp(-81/100))/40 - (9 \cdot \exp(-81/100) \cdot \sin(459/500))/8 + 3/8,$
 $(51 \cdot \cos(1853/2000) \cdot \exp(-327/400))/40 - (9 \cdot \exp(-327/400) \cdot \sin(1853/2000))/8 + 3/8,$
 $(51 \cdot \cos(187/200) \cdot \exp(-33/40))/40 - (9 \cdot \exp(-33/40) \cdot \sin(187/200))/8 + 3/8,$
 $(51 \cdot \cos(1887/2000) \cdot \exp(-333/400))/40 - (9 \cdot \exp(-333/400) \cdot \sin(1887/2000))/8 + 3/8,$
 $(51 \cdot \cos(119/125) \cdot \exp(-21/25))/40 - (9 \cdot \exp(-21/25) \cdot \sin(119/125))/8 + 3/8,$
 $(51 \cdot \cos(1921/2000) \cdot \exp(-339/400))/40 - (9 \cdot \exp(-339/400) \cdot \sin(1921/2000))/8 + 3/8,$
 $(51 \cdot \cos(969/1000) \cdot \exp(-171/200))/40 - (9 \cdot \exp(-171/200) \cdot \sin(969/1000))/8 + 3/8,$
 $(51 \cdot \cos(391/400) \cdot \exp(-69/80))/40 - (9 \cdot \exp(-69/80) \cdot \sin(391/400))/8 + 3/8,$
 $(51 \cdot \cos(493/500) \cdot \exp(-87/100))/40 - (9 \cdot \exp(-87/100) \cdot \sin(493/500))/8 + 3/8,$
 $(51 \cdot \cos(1989/2000) \cdot \exp(-351/400))/40 - (9 \cdot \exp(-351/400) \cdot \sin(1989/2000))/8 + 3/8,$
 $(51 \cdot \cos(1003/1000) \cdot \exp(-$

$177/200)/40 - (9*\exp(-177/200)*\sin(1003/1000))/8 + 3/8,$
 $(51*\cos(2023/2000)*\exp(-357/400))/40 - (9*\exp(-$
 $357/400)*\sin(2023/2000))/8 + 3/8, (51*\cos(51/50)*\exp(-9/10))/40 -$
 $(9*\exp(-9/10)*\sin(51/50))/8 + 3/8, (51*\cos(2057/2000)*\exp(-$
 $363/400))/40 - (9*\exp(-363/400)*\sin(2057/2000))/8 + 3/8,$
 $(51*\cos(1037/1000)*\exp(-183/200))/40 - (9*\exp(-$
 $183/200)*\sin(1037/1000))/8 + 3/8, (51*\cos(2091/2000)*\exp(-$
 $369/400))/40 - (9*\exp(-369/400)*\sin(2091/2000))/8 + 3/8,$
 $(51*\cos(527/500)*\exp(-93/100))/40 - (9*\exp(-93/100)*\sin(527/500))/8$
 $+ 3/8, (51*\cos(17/16)*\exp(-15/16))/40 - (9*\exp(-15/16)*\sin(17/16))/8 +$
 $3/8, (51*\cos(1071/1000)*\exp(-189/200))/40 - (9*\exp(-$
 $189/200)*\sin(1071/1000))/8 + 3/8, (51*\cos(2159/2000)*\exp(-$
 $381/400))/40 - (9*\exp(-381/400)*\sin(2159/2000))/8 + 3/8,$
 $(51*\cos(136/125)*\exp(-24/25))/40 - (9*\exp(-24/25)*\sin(136/125))/8 +$
 $3/8, (51*\cos(2193/2000)*\exp(-387/400))/40 - (9*\exp(-$
 $387/400)*\sin(2193/2000))/8 + 3/8, (51*\cos(221/200)*\exp(-39/40))/40 -$
 $(9*\exp(-39/40)*\sin(221/200))/8 + 3/8, (51*\cos(2227/2000)*\exp(-$
 $393/400))/40 - (9*\exp(-393/400)*\sin(2227/2000))/8 + 3/8,$
 $(51*\cos(561/500)*\exp(-99/100))/40 - (9*\exp(-99/100)*\sin(561/500))/8$
 $+ 3/8, (51*\cos(2261/2000)*\exp(-399/400))/40 - (9*\exp(-$
 $399/400)*\sin(2261/2000))/8 + 3/8, (51*\cos(1139/1000)*\exp(-$
 $201/200))/40 - (9*\exp(-201/200)*\sin(1139/1000))/8 + 3/8,$
 $(51*\cos(459/400)*\exp(-81/80))/40 - (9*\exp(-81/80)*\sin(459/400))/8 +$
 $3/8, (51*\cos(289/250)*\exp(-51/50))/40 - (9*\exp(-$
 $51/50)*\sin(289/250))/8 + 3/8, (51*\cos(2329/2000)*\exp(-411/400))/40 -$
 $(9*\exp(-411/400)*\sin(2329/2000))/8 + 3/8, (51*\cos(1173/1000)*\exp(-$
 $207/200))/40 - (9*\exp(-207/200)*\sin(1173/1000))/8 + 3/8,$
 $(51*\cos(2363/2000)*\exp(-417/400))/40 - (9*\exp(-$
 $417/400)*\sin(2363/2000))/8 + 3/8, (51*\cos(119/100)*\exp(-21/20))/40 -$
 $(9*\exp(-21/20)*\sin(119/100))/8 + 3/8, (51*\cos(2397/2000)*\exp(-$

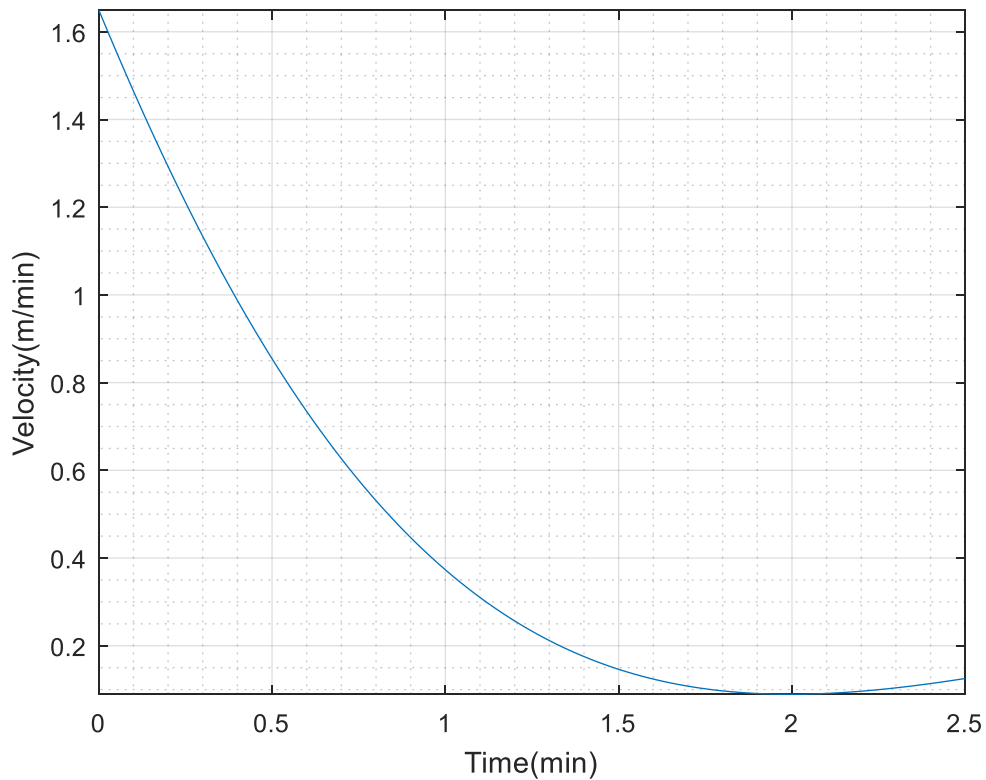
$423/400)/40 - (9*\exp(-423/400)*\sin(2397/2000))/8 + 3/8,$
 $(51*\cos(1207/1000)*\exp(-213/200))/40 - (9*\exp(-$
 $213/200)*\sin(1207/1000))/8 + 3/8, (51*\cos(2431/2000)*\exp(-$
 $429/400))/40 - (9*\exp(-429/400)*\sin(2431/2000))/8 + 3/8,$
 $(51*\cos(153/125)*\exp(-27/25))/40 - (9*\exp(-27/25)*\sin(153/125))/8 +$
 $3/8, (51*\cos(493/400)*\exp(-87/80))/40 - (9*\exp(-$
 $87/80)*\sin(493/400))/8 + 3/8, (51*\cos(1241/1000)*\exp(-219/200))/40 -$
 $(9*\exp(-219/200)*\sin(1241/1000))/8 + 3/8, (51*\cos(2499/2000)*\exp(-$
 $441/400))/40 - (9*\exp(-441/400)*\sin(2499/2000))/8 + 3/8,$
 $(51*\cos(629/500)*\exp(-111/100))/40 - (9*\exp(-$
 $111/100)*\sin(629/500))/8 + 3/8, (51*\cos(2533/2000)*\exp(-$
 $447/400))/40 - (9*\exp(-447/400)*\sin(2533/2000))/8 + 3/8,$
 $(51*\cos(51/40)*\exp(-9/8))/40 - (9*\exp(-9/8)*\sin(51/40))/8 + 3/8,$
 $(51*\cos(2567/2000)*\exp(-453/400))/40 - (9*\exp(-$
 $453/400)*\sin(2567/2000))/8 + 3/8, (51*\cos(323/250)*\exp(-57/50))/40 -$
 $(9*\exp(-57/50)*\sin(323/250))/8 + 3/8, (51*\cos(2601/2000)*\exp(-$
 $459/400))/40 - (9*\exp(-459/400)*\sin(2601/2000))/8 + 3/8,$
 $(51*\cos(1309/1000)*\exp(-231/200))/40 - (9*\exp(-$
 $231/200)*\sin(1309/1000))/8 + 3/8, (51*\cos(527/400)*\exp(-93/80))/40 -$
 $(9*\exp(-93/80)*\sin(527/400))/8 + 3/8, (51*\cos(663/500)*\exp(-$
 $117/100))/40 - (9*\exp(-117/100)*\sin(663/500))/8 + 3/8,$
 $(51*\cos(2669/2000)*\exp(-471/400))/40 - (9*\exp(-$
 $471/400)*\sin(2669/2000))/8 + 3/8, (51*\cos(1343/1000)*\exp(-$
 $237/200))/40 - (9*\exp(-237/200)*\sin(1343/1000))/8 + 3/8,$
 $(51*\cos(2703/2000)*\exp(-477/400))/40 - (9*\exp(-$
 $477/400)*\sin(2703/2000))/8 + 3/8, (51*\cos(34/25)*\exp(-6/5))/40 -$
 $(9*\exp(-6/5)*\sin(34/25))/8 + 3/8, (51*\cos(2737/2000)*\exp(-$
 $483/400))/40 - (9*\exp(-483/400)*\sin(2737/2000))/8 + 3/8,$
 $(51*\cos(1377/1000)*\exp(-243/200))/40 - (9*\exp(-$
 $243/200)*\sin(1377/1000))/8 + 3/8, (51*\cos(2771/2000)*\exp(-$

$489/400)/40 - (9*\exp(-489/400)*\sin(2771/2000))/8 + 3/8,$
 $(51*\cos(697/500)*\exp(-123/100))/40 - (9*\exp(-$
 $123/100)*\sin(697/500))/8 + 3/8, (51*\cos(561/400)*\exp(-99/80))/40 -$
 $(9*\exp(-99/80)*\sin(561/400))/8 + 3/8, (51*\cos(1411/1000)*\exp(-$
 $249/200))/40 - (9*\exp(-249/200)*\sin(1411/1000))/8 + 3/8,$
 $(51*\cos(2839/2000)*\exp(-501/400))/40 - (9*\exp(-$
 $501/400)*\sin(2839/2000))/8 + 3/8, (51*\cos(357/250)*\exp(-63/50))/40 -$
 $(9*\exp(-63/50)*\sin(357/250))/8 + 3/8, (51*\cos(2873/2000)*\exp(-$
 $507/400))/40 - (9*\exp(-507/400)*\sin(2873/2000))/8 + 3/8,$
 $(51*\cos(289/200)*\exp(-51/40))/40 - (9*\exp(-51/40)*\sin(289/200))/8 +$
 $3/8, (51*\cos(2907/2000)*\exp(-513/400))/40 - (9*\exp(-$
 $513/400)*\sin(2907/2000))/8 + 3/8, (51*\cos(731/500)*\exp(-$
 $129/100))/40 - (9*\exp(-129/100)*\sin(731/500))/8 + 3/8,$
 $(51*\cos(2941/2000)*\exp(-519/400))/40 - (9*\exp(-$
 $519/400)*\sin(2941/2000))/8 + 3/8, (51*\cos(1479/1000)*\exp(-$
 $261/200))/40 - (9*\exp(-261/200)*\sin(1479/1000))/8 + 3/8,$
 $(51*\cos(119/80)*\exp(-21/16))/40 - (9*\exp(-21/16)*\sin(119/80))/8 +$
 $3/8, (51*\cos(187/125)*\exp(-33/25))/40 - (9*\exp(-$
 $33/25)*\sin(187/125))/8 + 3/8, (51*\cos(3009/2000)*\exp(-531/400))/40 -$
 $(9*\exp(-531/400)*\sin(3009/2000))/8 + 3/8, (51*\cos(1513/1000)*\exp(-$
 $267/200))/40 - (9*\exp(-267/200)*\sin(1513/1000))/8 + 3/8,$
 $(51*\cos(3043/2000)*\exp(-537/400))/40 - (9*\exp(-$
 $537/400)*\sin(3043/2000))/8 + 3/8, (51*\cos(153/100)*\exp(-27/20))/40 -$
 $(9*\exp(-27/20)*\sin(153/100))/8 + 3/8, (51*\cos(3077/2000)*\exp(-$
 $543/400))/40 - (9*\exp(-543/400)*\sin(3077/2000))/8 + 3/8,$
 $(51*\cos(1547/1000)*\exp(-273/200))/40 - (9*\exp(-$
 $273/200)*\sin(1547/1000))/8 + 3/8, (51*\cos(3111/2000)*\exp(-$
 $549/400))/40 - (9*\exp(-549/400)*\sin(3111/2000))/8 + 3/8,$
 $(51*\cos(391/250)*\exp(-69/50))/40 - (9*\exp(-69/50)*\sin(391/250))/8 +$
 $3/8, (51*\cos(629/400)*\exp(-111/80))/40 - (9*\exp(-$

$111/80) * \sin(629/400))/8 + 3/8, (51 * \cos(1581/1000) * \exp(-279/200))/40$
 $- (9 * \exp(-279/200) * \sin(1581/1000))/8 + 3/8, (51 * \cos(3179/2000) * \exp(-$
 $561/400))/40 - (9 * \exp(-561/400) * \sin(3179/2000))/8 + 3/8,$
 $(51 * \cos(799/500) * \exp(-141/100))/40 - (9 * \exp(-$
 $141/100) * \sin(799/500))/8 + 3/8, (51 * \cos(3213/2000) * \exp(-$
 $567/400))/40 - (9 * \exp(-567/400) * \sin(3213/2000))/8 + 3/8,$
 $(51 * \cos(323/200) * \exp(-57/40))/40 - (9 * \exp(-57/40) * \sin(323/200))/8 +$
 $3/8, (51 * \cos(3247/2000) * \exp(-573/400))/40 - (9 * \exp(-$
 $573/400) * \sin(3247/2000))/8 + 3/8, (51 * \cos(204/125) * \exp(-36/25))/40 -$
 $(9 * \exp(-36/25) * \sin(204/125))/8 + 3/8, (51 * \cos(3281/2000) * \exp(-$
 $579/400))/40 - (9 * \exp(-579/400) * \sin(3281/2000))/8 + 3/8,$
 $(51 * \cos(1649/1000) * \exp(-291/200))/40 - (9 * \exp(-$
 $291/200) * \sin(1649/1000))/8 + 3/8, (51 * \cos(663/400) * \exp(-117/80))/40$
 $- (9 * \exp(-117/80) * \sin(663/400))/8 + 3/8, (51 * \cos(833/500) * \exp(-$
 $147/100))/40 - (9 * \exp(-147/100) * \sin(833/500))/8 + 3/8,$
 $(51 * \cos(3349/2000) * \exp(-591/400))/40 - (9 * \exp(-$
 $591/400) * \sin(3349/2000))/8 + 3/8, (51 * \cos(1683/1000) * \exp(-$
 $297/200))/40 - (9 * \exp(-297/200) * \sin(1683/1000))/8 + 3/8,$
 $(51 * \cos(3383/2000) * \exp(-597/400))/40 - (9 * \exp(-$
 $597/400) * \sin(3383/2000))/8 + 3/8, (51 * \cos(17/10) * \exp(-3/2))/40 -$
 $(9 * \exp(-3/2) * \sin(17/10))/8 + 3/8, (51 * \cos(3417/2000) * \exp(-$
 $603/400))/40 - (9 * \exp(-603/400) * \sin(3417/2000))/8 + 3/8,$
 $(51 * \cos(1717/1000) * \exp(-303/200))/40 - (9 * \exp(-$
 $303/200) * \sin(1717/1000))/8 + 3/8, (51 * \cos(3451/2000) * \exp(-$
 $609/400))/40 - (9 * \exp(-609/400) * \sin(3451/2000))/8 + 3/8,$
 $(51 * \cos(867/500) * \exp(-153/100))/40 - (9 * \exp(-$
 $153/100) * \sin(867/500))/8 + 3/8, (51 * \cos(697/400) * \exp(-123/80))/40 -$
 $(9 * \exp(-123/80) * \sin(697/400))/8 + 3/8, (51 * \cos(1751/1000) * \exp(-$
 $309/200))/40 - (9 * \exp(-309/200) * \sin(1751/1000))/8 + 3/8,$
 $(51 * \cos(3519/2000) * \exp(-621/400))/40 - (9 * \exp(-$

$621/400) * \sin(3519/2000))/8 + 3/8, (51 * \cos(221/125) * \exp(-39/25))/40 -$
 $(9 * \exp(-39/25) * \sin(221/125))/8 + 3/8, (51 * \cos(3553/2000) * \exp(-$
 $627/400))/40 - (9 * \exp(-627/400) * \sin(3553/2000))/8 + 3/8,$
 $(51 * \cos(357/200) * \exp(-63/40))/40 - (9 * \exp(-63/40) * \sin(357/200))/8 +$
 $3/8, (51 * \cos(3587/2000) * \exp(-633/400))/40 - (9 * \exp(-$
 $633/400) * \sin(3587/2000))/8 + 3/8, (51 * \cos(901/500) * \exp(-$
 $159/100))/40 - (9 * \exp(-159/100) * \sin(901/500))/8 + 3/8,$
 $(51 * \cos(3621/2000) * \exp(-639/400))/40 - (9 * \exp(-$
 $639/400) * \sin(3621/2000))/8 + 3/8, (51 * \cos(1819/1000) * \exp(-$
 $321/200))/40 - (9 * \exp(-321/200) * \sin(1819/1000))/8 + 3/8,$
 $(51 * \cos(731/400) * \exp(-129/80))/40 - (9 * \exp(-129/80) * \sin(731/400))/8$
 $+ 3/8, (51 * \cos(459/250) * \exp(-81/50))/40 - (9 * \exp(-$
 $81/50) * \sin(459/250))/8 + 3/8, (51 * \cos(3689/2000) * \exp(-651/400))/40 -$
 $(9 * \exp(-651/400) * \sin(3689/2000))/8 + 3/8, (51 * \cos(1853/1000) * \exp(-$
 $327/200))/40 - (9 * \exp(-327/200) * \sin(1853/1000))/8 + 3/8,$
 $(51 * \cos(3723/2000) * \exp(-657/400))/40 - (9 * \exp(-$
 $657/400) * \sin(3723/2000))/8 + 3/8, (51 * \cos(187/100) * \exp(-33/20))/40 -$
 $(9 * \exp(-33/20) * \sin(187/100))/8 + 3/8, (51 * \cos(3757/2000) * \exp(-$
 $663/400))/40 - (9 * \exp(-663/400) * \sin(3757/2000))/8 + 3/8,$
 $(51 * \cos(1887/1000) * \exp(-333/200))/40 - (9 * \exp(-$
 $333/200) * \sin(1887/1000))/8 + 3/8, (51 * \cos(3791/2000) * \exp(-$
 $669/400))/40 - (9 * \exp(-669/400) * \sin(3791/2000))/8 + 3/8,$
 $(51 * \cos(238/125) * \exp(-42/25))/40 - (9 * \exp(-42/25) * \sin(238/125))/8 +$
 $3/8, (51 * \cos(153/80) * \exp(-27/16))/40 - (9 * \exp(-27/16) * \sin(153/80))/8$
 $+ 3/8, (51 * \cos(1921/1000) * \exp(-339/200))/40 - (9 * \exp(-$
 $339/200) * \sin(1921/1000))/8 + 3/8, (51 * \cos(3859/2000) * \exp(-$
 $681/400))/40 - (9 * \exp(-681/400) * \sin(3859/2000))/8 + 3/8,$
 $(51 * \cos(969/500) * \exp(-171/100))/40 - (9 * \exp(-$
 $171/100) * \sin(969/500))/8 + 3/8, (51 * \cos(3893/2000) * \exp(-$
 $687/400))/40 - (9 * \exp(-687/400) * \sin(3893/2000))/8 + 3/8,$

$(51 \cdot \cos(391/200) \cdot \exp(-69/40))/40 - (9 \cdot \exp(-69/40) \cdot \sin(391/200))/8 + 3/8,$
 $(51 \cdot \cos(3927/2000) \cdot \exp(-693/400))/40 - (9 \cdot \exp(-693/400) \cdot \sin(3927/2000))/8 + 3/8,$
 $(51 \cdot \cos(493/250) \cdot \exp(-87/50))/40 - (9 \cdot \exp(-87/50) \cdot \sin(493/250))/8 + 3/8,$
 $(51 \cdot \cos(3961/2000) \cdot \exp(-699/400))/40 - (9 \cdot \exp(-699/400) \cdot \sin(3961/2000))/8 + 3/8,$
 $(51 \cdot \cos(1989/1000) \cdot \exp(-351/200))/40 - (9 \cdot \exp(-351/200) \cdot \sin(1989/1000))/8 + 3/8,$
 $(51 \cdot \cos(799/400) \cdot \exp(-141/80))/40 - (9 \cdot \exp(-141/80) \cdot \sin(799/400))/8 + 3/8,$
 $(51 \cdot \cos(1003/500) \cdot \exp(-177/100))/40 - (9 \cdot \exp(-177/100) \cdot \sin(1003/500))/8 + 3/8,$
 $(51 \cdot \cos(4029/2000) \cdot \exp(-711/400))/40 - (9 \cdot \exp(-711/400) \cdot \sin(4029/2000))/8 + 3/8,$
 $(51 \cdot \cos(2023/1000) \cdot \exp(-357/200))/40 - (9 \cdot \exp(-357/200) \cdot \sin(2023/1000))/8 + 3/8,$
 $(51 \cdot \cos(4063/2000) \cdot \exp(-717/400))/40 - (9 \cdot \exp(-717/400) \cdot \sin(4063/2000))/8 + 3/8,$
 $(51 \cdot \cos(51/25) \cdot \exp(-9/5))/40 - (9 \cdot \exp(-9/5) \cdot \sin(51/25))/8 + 3/8,$
 $(51 \cdot \cos(4097/2000) \cdot \exp(-723/400))/40 - (9 \cdot \exp(-723/400) \cdot \sin(4097/2000))/8 + 3/8,$
 $(51 \cdot \cos(2057/1000) \cdot \exp(-363/200))/40 - (9 \cdot \exp(-363/200) \cdot \sin(2057/1000))/8 + 3/8,$
 $(51 \cdot \cos(4131/2000) \cdot \exp(-729/400))/40 - (9 \cdot \exp(-729/400) \cdot \sin(4131/2000))/8 + 3/8,$
 $(51 \cdot \cos(1037/500) \cdot \exp(-183/100))/40 - (9 \cdot \exp(-183/100) \cdot \sin(1037/500))/8 + 3/8,$
 $(51 \cdot \cos(833/400) \cdot \exp(-147/80))/40 - (9 \cdot \exp(-147/80) \cdot \sin(833/400))/8 + 3/8,$
 $(51 \cdot \cos(2091/1000) \cdot \exp(-369/200))/40 - (9 \cdot \exp(-369/200) \cdot \sin(2091/1000))/8 + 3/8,$
 $(51 \cdot \cos(4199/2000) \cdot \exp(-741/400))/40 - (9 \cdot \exp(-741/400) \cdot \sin(4199/2000))/8 + 3/8,$
 $(51 \cdot \cos(527/250) \cdot \exp(-93/50))/40 - (9 \cdot \exp(-93/50) \cdot \sin(527/250))/8 + 3/8,$
 $(51 \cdot \cos(4233/2000) \cdot \exp(-747/400))/40 - (9 \cdot \exp(-747/400) \cdot \sin(4233/2000))/8 + 3/8,$
 $(51 \cdot \cos(17/8) \cdot \exp(-15/8))/40 - (9 \cdot \exp(-15/8) \cdot \sin(17/8))/8 + 3/8]$



a =

$$- (153 \cdot \cos((17 \cdot t)/20) \cdot \exp(-3 \cdot t/4))/80 - (6 \cdot \sin((17 \cdot t)/20) \cdot \exp(-3 \cdot t/4))/25$$

an =

$$[-153/80, - (153 \cdot \cos(17/2000) \cdot \exp(-3/400))/80 - (6 \cdot \exp(-3/400) \cdot \sin(17/2000))/25, - (153 \cdot \cos(17/1000) \cdot \exp(-3/200))/80 - (6 \cdot \exp(-3/200) \cdot \sin(17/1000))/25, - (153 \cdot \cos(51/2000) \cdot \exp(-9/400))/80 - (6 \cdot \exp(-9/400) \cdot \sin(51/2000))/25, - (153 \cdot \cos(17/500) \cdot \exp(-3/100))/80$$

- (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(-
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 -

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

159/400))/80 - (6*exp(-159/400)*sin(901/2000))/25, -
(153*cos(459/1000)*exp(-81/200))/80 - (6*exp(-
81/200)*sin(459/1000))/25, - (153*cos(187/400)*exp(-33/80))/80 -
(6*exp(-33/80)*sin(187/400))/25, - (153*cos(119/250)*exp(-21/50))/80
- (6*exp(-21/50)*sin(119/250))/25, - (153*cos(969/2000)*exp(-
171/400))/80 - (6*exp(-171/400)*sin(969/2000))/25, -
(153*cos(493/1000)*exp(-87/200))/80 - (6*exp(-
87/200)*sin(493/1000))/25, - (153*cos(1003/2000)*exp(-177/400))/80
- (6*exp(-177/400)*sin(1003/2000))/25, - (153*cos(51/100)*exp(-
9/20))/80 - (6*exp(-9/20)*sin(51/100))/25, -
(153*cos(1037/2000)*exp(-183/400))/80 - (6*exp(-
183/400)*sin(1037/2000))/25, - (153*cos(527/1000)*exp(-93/200))/80
- (6*exp(-93/200)*sin(527/1000))/25, - (153*cos(1071/2000)*exp(-
189/400))/80 - (6*exp(-189/400)*sin(1071/2000))/25, -
(153*cos(68/125)*exp(-12/25))/80 - (6*exp(-12/25)*sin(68/125))/25, -
(153*cos(221/400)*exp(-39/80))/80 - (6*exp(-39/80)*sin(221/400))/25,
- (153*cos(561/1000)*exp(-99/200))/80 - (6*exp(-
99/200)*sin(561/1000))/25, - (153*cos(1139/2000)*exp(-201/400))/80
- (6*exp(-201/400)*sin(1139/2000))/25, - (153*cos(289/500)*exp(-
51/100))/80 - (6*exp(-51/100)*sin(289/500))/25, -
(153*cos(1173/2000)*exp(-207/400))/80 - (6*exp(-
207/400)*sin(1173/2000))/25, - (153*cos(119/200)*exp(-21/40))/80 -
(6*exp(-21/40)*sin(119/200))/25, - (153*cos(1207/2000)*exp(-
213/400))/80 - (6*exp(-213/400)*sin(1207/2000))/25, -
(153*cos(153/250)*exp(-27/50))/80 - (6*exp(-27/50)*sin(153/250))/25,
- (153*cos(1241/2000)*exp(-219/400))/80 - (6*exp(-
219/400)*sin(1241/2000))/25, - (153*cos(629/1000)*exp(-
111/200))/80 - (6*exp(-111/200)*sin(629/1000))/25, -
(153*cos(51/80)*exp(-9/16))/80 - (6*exp(-9/16)*sin(51/80))/25, -
(153*cos(323/500)*exp(-57/100))/80 - (6*exp(-

$57/100) * \sin(323/500))/25, - (153 * \cos(1309/2000) * \exp(-231/400))/80 -$
 $(6 * \exp(-231/400) * \sin(1309/2000))/25, - (153 * \cos(663/1000) * \exp(-$
 $117/200))/80 - (6 * \exp(-117/200) * \sin(663/1000))/25, -$
 $(153 * \cos(1343/2000) * \exp(-237/400))/80 - (6 * \exp(-$
 $237/400) * \sin(1343/2000))/25, - (153 * \cos(17/25) * \exp(-3/5))/80 -$
 $(6 * \exp(-3/5) * \sin(17/25))/25, - (153 * \cos(1377/2000) * \exp(-243/400))/80$
 $- (6 * \exp(-243/400) * \sin(1377/2000))/25, - (153 * \cos(697/1000) * \exp(-$
 $123/200))/80 - (6 * \exp(-123/200) * \sin(697/1000))/25, -$
 $(153 * \cos(1411/2000) * \exp(-249/400))/80 - (6 * \exp(-$
 $249/400) * \sin(1411/2000))/25, - (153 * \cos(357/500) * \exp(-63/100))/80 -$
 $(6 * \exp(-63/100) * \sin(357/500))/25, - (153 * \cos(289/400) * \exp(-$
 $51/80))/80 - (6 * \exp(-51/80) * \sin(289/400))/25, -$
 $(153 * \cos(731/1000) * \exp(-129/200))/80 - (6 * \exp(-$
 $129/200) * \sin(731/1000))/25, - (153 * \cos(1479/2000) * \exp(-$
 $261/400))/80 - (6 * \exp(-261/400) * \sin(1479/2000))/25, -$
 $(153 * \cos(187/250) * \exp(-33/50))/80 - (6 * \exp(-33/50) * \sin(187/250))/25,$
 $- (153 * \cos(1513/2000) * \exp(-267/400))/80 - (6 * \exp(-$
 $267/400) * \sin(1513/2000))/25, - (153 * \cos(153/200) * \exp(-27/40))/80 -$
 $(6 * \exp(-27/40) * \sin(153/200))/25, - (153 * \cos(1547/2000) * \exp(-$
 $273/400))/80 - (6 * \exp(-273/400) * \sin(1547/2000))/25, -$
 $(153 * \cos(391/500) * \exp(-69/100))/80 - (6 * \exp(-$
 $69/100) * \sin(391/500))/25, - (153 * \cos(1581/2000) * \exp(-279/400))/80 -$
 $(6 * \exp(-279/400) * \sin(1581/2000))/25, - (153 * \cos(799/1000) * \exp(-$
 $141/200))/80 - (6 * \exp(-141/200) * \sin(799/1000))/25, -$
 $(153 * \cos(323/400) * \exp(-57/80))/80 - (6 * \exp(-57/80) * \sin(323/400))/25,$
 $- (153 * \cos(102/125) * \exp(-18/25))/80 - (6 * \exp(-$
 $18/25) * \sin(102/125))/25, - (153 * \cos(1649/2000) * \exp(-291/400))/80 -$
 $(6 * \exp(-291/400) * \sin(1649/2000))/25, - (153 * \cos(833/1000) * \exp(-$
 $147/200))/80 - (6 * \exp(-147/200) * \sin(833/1000))/25, -$
 $(153 * \cos(1683/2000) * \exp(-297/400))/80 - (6 * \exp(-$

$297/400) * \sin(1683/2000))/25, - (153 * \cos(17/20) * \exp(-3/4))/80 -$
 $(6 * \exp(-3/4) * \sin(17/20))/25, - (153 * \cos(1717/2000) * \exp(-303/400))/80$
 $- (6 * \exp(-303/400) * \sin(1717/2000))/25, - (153 * \cos(867/1000) * \exp(-$
 $153/200))/80 - (6 * \exp(-153/200) * \sin(867/1000))/25, -$
 $(153 * \cos(1751/2000) * \exp(-309/400))/80 - (6 * \exp(-$
 $309/400) * \sin(1751/2000))/25, - (153 * \cos(221/250) * \exp(-39/50))/80 -$
 $(6 * \exp(-39/50) * \sin(221/250))/25, - (153 * \cos(357/400) * \exp(-63/80))/80$
 $- (6 * \exp(-63/80) * \sin(357/400))/25, - (153 * \cos(901/1000) * \exp(-$
 $159/200))/80 - (6 * \exp(-159/200) * \sin(901/1000))/25, -$
 $(153 * \cos(1819/2000) * \exp(-321/400))/80 - (6 * \exp(-$
 $321/400) * \sin(1819/2000))/25, - (153 * \cos(459/500) * \exp(-81/100))/80 -$
 $(6 * \exp(-81/100) * \sin(459/500))/25, - (153 * \cos(1853/2000) * \exp(-$
 $327/400))/80 - (6 * \exp(-327/400) * \sin(1853/2000))/25, -$
 $(153 * \cos(187/200) * \exp(-33/40))/80 - (6 * \exp(-33/40) * \sin(187/200))/25,$
 $- (153 * \cos(1887/2000) * \exp(-333/400))/80 - (6 * \exp(-$
 $333/400) * \sin(1887/2000))/25, - (153 * \cos(119/125) * \exp(-21/25))/80 -$
 $(6 * \exp(-21/25) * \sin(119/125))/25, - (153 * \cos(1921/2000) * \exp(-$
 $339/400))/80 - (6 * \exp(-339/400) * \sin(1921/2000))/25, -$
 $(153 * \cos(969/1000) * \exp(-171/200))/80 - (6 * \exp(-$
 $171/200) * \sin(969/1000))/25, - (153 * \cos(391/400) * \exp(-69/80))/80 -$
 $(6 * \exp(-69/80) * \sin(391/400))/25, - (153 * \cos(493/500) * \exp(-$
 $87/100))/80 - (6 * \exp(-87/100) * \sin(493/500))/25, -$
 $(153 * \cos(1989/2000) * \exp(-351/400))/80 - (6 * \exp(-$
 $351/400) * \sin(1989/2000))/25, - (153 * \cos(1003/1000) * \exp(-$
 $177/200))/80 - (6 * \exp(-177/200) * \sin(1003/1000))/25, -$
 $(153 * \cos(2023/2000) * \exp(-357/400))/80 - (6 * \exp(-$
 $357/400) * \sin(2023/2000))/25, - (153 * \cos(51/50) * \exp(-9/10))/80 -$
 $(6 * \exp(-9/10) * \sin(51/50))/25, - (153 * \cos(2057/2000) * \exp(-$
 $363/400))/80 - (6 * \exp(-363/400) * \sin(2057/2000))/25, -$
 $(153 * \cos(1037/1000) * \exp(-183/200))/80 - (6 * \exp(-$

183/200)*sin(1037/1000))/25, - (153*cos(2091/2000)*exp(-369/400))/80 - (6*exp(-369/400)*sin(2091/2000))/25, - (153*cos(527/500)*exp(-93/100))/80 - (6*exp(-93/100)*sin(527/500))/25, - (153*cos(17/16)*exp(-15/16))/80 - (6*exp(-15/16)*sin(17/16))/25, - (153*cos(1071/1000)*exp(-189/200))/80 - (6*exp(-189/200)*sin(1071/1000))/25, - (153*cos(2159/2000)*exp(-381/400))/80 - (6*exp(-381/400)*sin(2159/2000))/25, - (153*cos(136/125)*exp(-24/25))/80 - (6*exp(-24/25)*sin(136/125))/25, - (153*cos(2193/2000)*exp(-387/400))/80 - (6*exp(-387/400)*sin(2193/2000))/25, - (153*cos(221/200)*exp(-39/40))/80 - (6*exp(-39/40)*sin(221/200))/25, - (153*cos(2227/2000)*exp(-393/400))/80 - (6*exp(-393/400)*sin(2227/2000))/25, - (153*cos(561/500)*exp(-99/100))/80 - (6*exp(-99/100)*sin(561/500))/25, - (153*cos(2261/2000)*exp(-399/400))/80 - (6*exp(-399/400)*sin(2261/2000))/25, - (153*cos(1139/1000)*exp(-201/200))/80 - (6*exp(-201/200)*sin(1139/1000))/25, - (153*cos(459/400)*exp(-81/80))/80 - (6*exp(-81/80)*sin(459/400))/25, - (153*cos(289/250)*exp(-51/50))/80 - (6*exp(-51/50)*sin(289/250))/25, - (153*cos(2329/2000)*exp(-411/400))/80 - (6*exp(-411/400)*sin(2329/2000))/25, - (153*cos(1173/1000)*exp(-207/200))/80 - (6*exp(-207/200)*sin(1173/1000))/25, - (153*cos(2363/2000)*exp(-417/400))/80 - (6*exp(-417/400)*sin(2363/2000))/25, - (153*cos(119/100)*exp(-21/20))/80 - (6*exp(-21/20)*sin(119/100))/25, - (153*cos(2397/2000)*exp(-423/400))/80 - (6*exp(-423/400)*sin(2397/2000))/25, - (153*cos(1207/1000)*exp(-213/200))/80 - (6*exp(-213/200)*sin(1207/1000))/25, - (153*cos(2431/2000)*exp(-429/400))/80 - (6*exp(-429/400)*sin(2431/2000))/25, - (153*cos(153/125)*exp(-27/25))/80 - (6*exp(-27/25)*sin(153/125))/25, - (153*cos(493/400)*exp(-87/80))/80

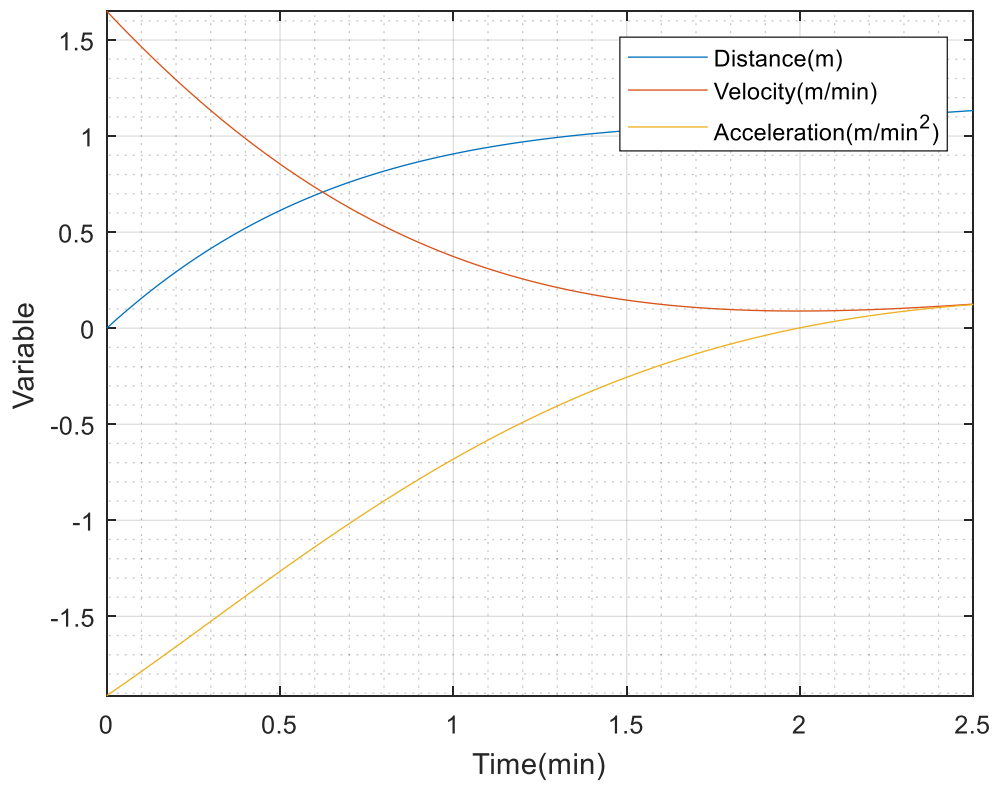
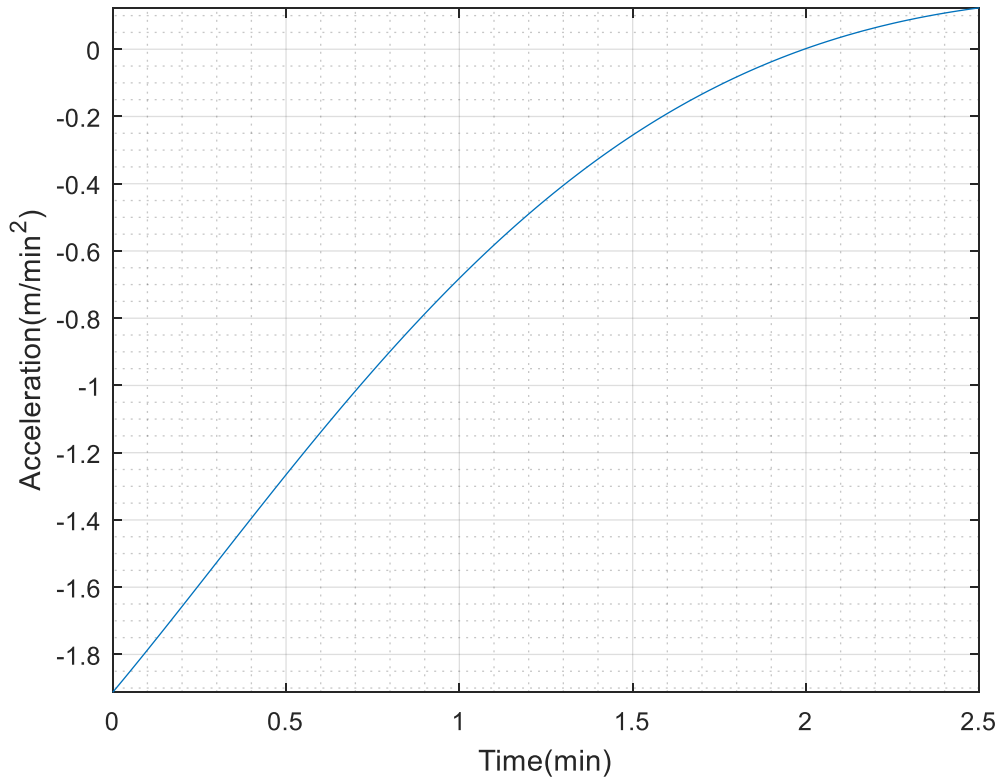
- (6*exp(-87/80)*sin(493/400))/25, - (153*cos(1241/1000)*exp(-219/200))/80 - (6*exp(-219/200)*sin(1241/1000))/25, - (153*cos(2499/2000)*exp(-441/400))/80 - (6*exp(-441/400)*sin(2499/2000))/25, - (153*cos(629/500)*exp(-111/100))/80 - (6*exp(-111/100)*sin(629/500))/25, - (153*cos(2533/2000)*exp(-447/400))/80 - (6*exp(-447/400)*sin(2533/2000))/25, - (153*cos(51/40)*exp(-9/8))/80 - (6*exp(-9/8)*sin(51/40))/25, - (153*cos(2567/2000)*exp(-453/400))/80 - (6*exp(-453/400)*sin(2567/2000))/25, - (153*cos(323/250)*exp(-57/50))/80 - (6*exp(-57/50)*sin(323/250))/25, - (153*cos(2601/2000)*exp(-459/400))/80 - (6*exp(-459/400)*sin(2601/2000))/25, - (153*cos(1309/1000)*exp(-231/200))/80 - (6*exp(-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, -

$(153 \cdot \cos(357/250) \cdot \exp(-63/50))/80 - (6 \cdot \exp(-63/50) \cdot \sin(357/250))/25,$
- $(153 \cdot \cos(2873/2000) \cdot \exp(-507/400))/80 - (6 \cdot \exp(-$
 $507/400) \cdot \sin(2873/2000))/25, - (153 \cdot \cos(289/200) \cdot \exp(-51/40))/80 -$
 $(6 \cdot \exp(-51/40) \cdot \sin(289/200))/25, - (153 \cdot \cos(2907/2000) \cdot \exp(-$
 $513/400))/80 - (6 \cdot \exp(-513/400) \cdot \sin(2907/2000))/25, -$
 $(153 \cdot \cos(731/500) \cdot \exp(-129/100))/80 - (6 \cdot \exp(-$
 $129/100) \cdot \sin(731/500))/25, - (153 \cdot \cos(2941/2000) \cdot \exp(-519/400))/80$
- $(6 \cdot \exp(-519/400) \cdot \sin(2941/2000))/25, - (153 \cdot \cos(1479/1000) \cdot \exp(-$
 $261/200))/80 - (6 \cdot \exp(-261/200) \cdot \sin(1479/1000))/25, -$
 $(153 \cdot \cos(119/80) \cdot \exp(-21/16))/80 - (6 \cdot \exp(-21/16) \cdot \sin(119/80))/25, -$
 $(153 \cdot \cos(187/125) \cdot \exp(-33/25))/80 - (6 \cdot \exp(-33/25) \cdot \sin(187/125))/25,$
- $(153 \cdot \cos(3009/2000) \cdot \exp(-531/400))/80 - (6 \cdot \exp(-$
 $531/400) \cdot \sin(3009/2000))/25, - (153 \cdot \cos(1513/1000) \cdot \exp(-$
 $267/200))/80 - (6 \cdot \exp(-267/200) \cdot \sin(1513/1000))/25, -$
 $(153 \cdot \cos(3043/2000) \cdot \exp(-537/400))/80 - (6 \cdot \exp(-$
 $537/400) \cdot \sin(3043/2000))/25, - (153 \cdot \cos(153/100) \cdot \exp(-27/20))/80 -$
 $(6 \cdot \exp(-27/20) \cdot \sin(153/100))/25, - (153 \cdot \cos(3077/2000) \cdot \exp(-$
 $543/400))/80 - (6 \cdot \exp(-543/400) \cdot \sin(3077/2000))/25, -$
 $(153 \cdot \cos(1547/1000) \cdot \exp(-273/200))/80 - (6 \cdot \exp(-$
 $273/200) \cdot \sin(1547/1000))/25, - (153 \cdot \cos(3111/2000) \cdot \exp(-$
 $549/400))/80 - (6 \cdot \exp(-549/400) \cdot \sin(3111/2000))/25, -$
 $(153 \cdot \cos(391/250) \cdot \exp(-69/50))/80 - (6 \cdot \exp(-69/50) \cdot \sin(391/250))/25,$
- $(153 \cdot \cos(629/400) \cdot \exp(-111/80))/80 - (6 \cdot \exp(-$
 $111/80) \cdot \sin(629/400))/25, - (153 \cdot \cos(1581/1000) \cdot \exp(-279/200))/80 -$
 $(6 \cdot \exp(-279/200) \cdot \sin(1581/1000))/25, - (153 \cdot \cos(3179/2000) \cdot \exp(-$
 $561/400))/80 - (6 \cdot \exp(-561/400) \cdot \sin(3179/2000))/25, -$
 $(153 \cdot \cos(799/500) \cdot \exp(-141/100))/80 - (6 \cdot \exp(-$
 $141/100) \cdot \sin(799/500))/25, - (153 \cdot \cos(3213/2000) \cdot \exp(-567/400))/80$
- $(6 \cdot \exp(-567/400) \cdot \sin(3213/2000))/25, - (153 \cdot \cos(323/200) \cdot \exp(-$
 $57/40))/80 - (6 \cdot \exp(-57/40) \cdot \sin(323/200))/25, -$

$(153 \cdot \cos(3247/2000) \cdot \exp(-573/400))/80 - (6 \cdot \exp(-573/400) \cdot \sin(3247/2000))/25, - (153 \cdot \cos(204/125) \cdot \exp(-36/25))/80 - (6 \cdot \exp(-36/25) \cdot \sin(204/125))/25, - (153 \cdot \cos(3281/2000) \cdot \exp(-579/400))/80 - (6 \cdot \exp(-579/400) \cdot \sin(3281/2000))/25, - (153 \cdot \cos(1649/1000) \cdot \exp(-291/200))/80 - (6 \cdot \exp(-291/200) \cdot \sin(1649/1000))/25, - (153 \cdot \cos(663/400) \cdot \exp(-117/80))/80 - (6 \cdot \exp(-117/80) \cdot \sin(663/400))/25, - (153 \cdot \cos(833/500) \cdot \exp(-147/100))/80 - (6 \cdot \exp(-147/100) \cdot \sin(833/500))/25, - (153 \cdot \cos(3349/2000) \cdot \exp(-591/400))/80 - (6 \cdot \exp(-591/400) \cdot \sin(3349/2000))/25, - (153 \cdot \cos(1683/1000) \cdot \exp(-297/200))/80 - (6 \cdot \exp(-297/200) \cdot \sin(1683/1000))/25, - (153 \cdot \cos(3383/2000) \cdot \exp(-597/400))/80 - (6 \cdot \exp(-597/400) \cdot \sin(3383/2000))/25, - (153 \cdot \cos(17/10) \cdot \exp(-3/2))/80 - (6 \cdot \exp(-3/2) \cdot \sin(17/10))/25, - (153 \cdot \cos(3417/2000) \cdot \exp(-603/400))/80 - (6 \cdot \exp(-603/400) \cdot \sin(3417/2000))/25, - (153 \cdot \cos(1717/1000) \cdot \exp(-303/200))/80 - (6 \cdot \exp(-303/200) \cdot \sin(1717/1000))/25, - (153 \cdot \cos(3451/2000) \cdot \exp(-609/400))/80 - (6 \cdot \exp(-609/400) \cdot \sin(3451/2000))/25, - (153 \cdot \cos(867/500) \cdot \exp(-153/100))/80 - (6 \cdot \exp(-153/100) \cdot \sin(867/500))/25, - (153 \cdot \cos(697/400) \cdot \exp(-123/80))/80 - (6 \cdot \exp(-123/80) \cdot \sin(697/400))/25, - (153 \cdot \cos(1751/1000) \cdot \exp(-309/200))/80 - (6 \cdot \exp(-309/200) \cdot \sin(1751/1000))/25, - (153 \cdot \cos(3519/2000) \cdot \exp(-621/400))/80 - (6 \cdot \exp(-621/400) \cdot \sin(3519/2000))/25, - (153 \cdot \cos(221/125) \cdot \exp(-39/25))/80 - (6 \cdot \exp(-39/25) \cdot \sin(221/125))/25, - (153 \cdot \cos(3553/2000) \cdot \exp(-627/400))/80 - (6 \cdot \exp(-627/400) \cdot \sin(3553/2000))/25, - (153 \cdot \cos(357/200) \cdot \exp(-63/40))/80 - (6 \cdot \exp(-63/40) \cdot \sin(357/200))/25, - (153 \cdot \cos(3587/2000) \cdot \exp(-633/400))/80 - (6 \cdot \exp(-633/400) \cdot \sin(3587/2000))/25, - (153 \cdot \cos(901/500) \cdot \exp(-159/100))/80 - (6 \cdot \exp(-159/100) \cdot \sin(901/500))/25, - (153 \cdot \cos(3621/2000) \cdot \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, - (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]



C

COMMANDS

```
commandwindow
```

```
clear
```

```
clc
```

```
close all
```

```
syms x
```

```
y = 5*sin(5*x)^5
```

```
yn = int(y,0,22/7)
```

```
format rat
```

RESULTS

y =

$5*\sin(5*x)^5$

yn =

$-\left(\cos\left(\frac{110}{7}\right) - 1\right)^3 \left(\frac{9*\cos\left(\frac{110}{7}\right) + \left(3*\cos\left(\frac{220}{7}\right)\right)}{2} + \frac{19}{2}\right) / 15$