

Question No. 1

For obtaining y in terms of t

```
1.commandwindow
2.clear
3.clc
4.syms y(t)
5.df = [diff(y,t,2)+5*diff(y,t)+6*y == cos(t)]
6.dy = diff(y,t)
7.dfcondition = [y(0) == 5 , dy(0) == 3]
8.dg = dsolve(df,dfcondition)
9.pretty(dg)
```

commandwindow

df(t) =

$6*y(t) + 5*\text{diff}(y(t), t) + \text{diff}(y(t), t, t) == \cos(t)$

dy(t) =

$\text{diff}(y(t), t)$

dfcondition =

$[y(0) == 5, \text{subs}(\text{diff}(y(t), t), t, 0) == 3]$

dg =

$(88*\exp(-2*t))/5 - (127*\exp(-3*t))/10 + (2^{(1/2)}*\cos(t - \pi/4))/10$

Question No. 1

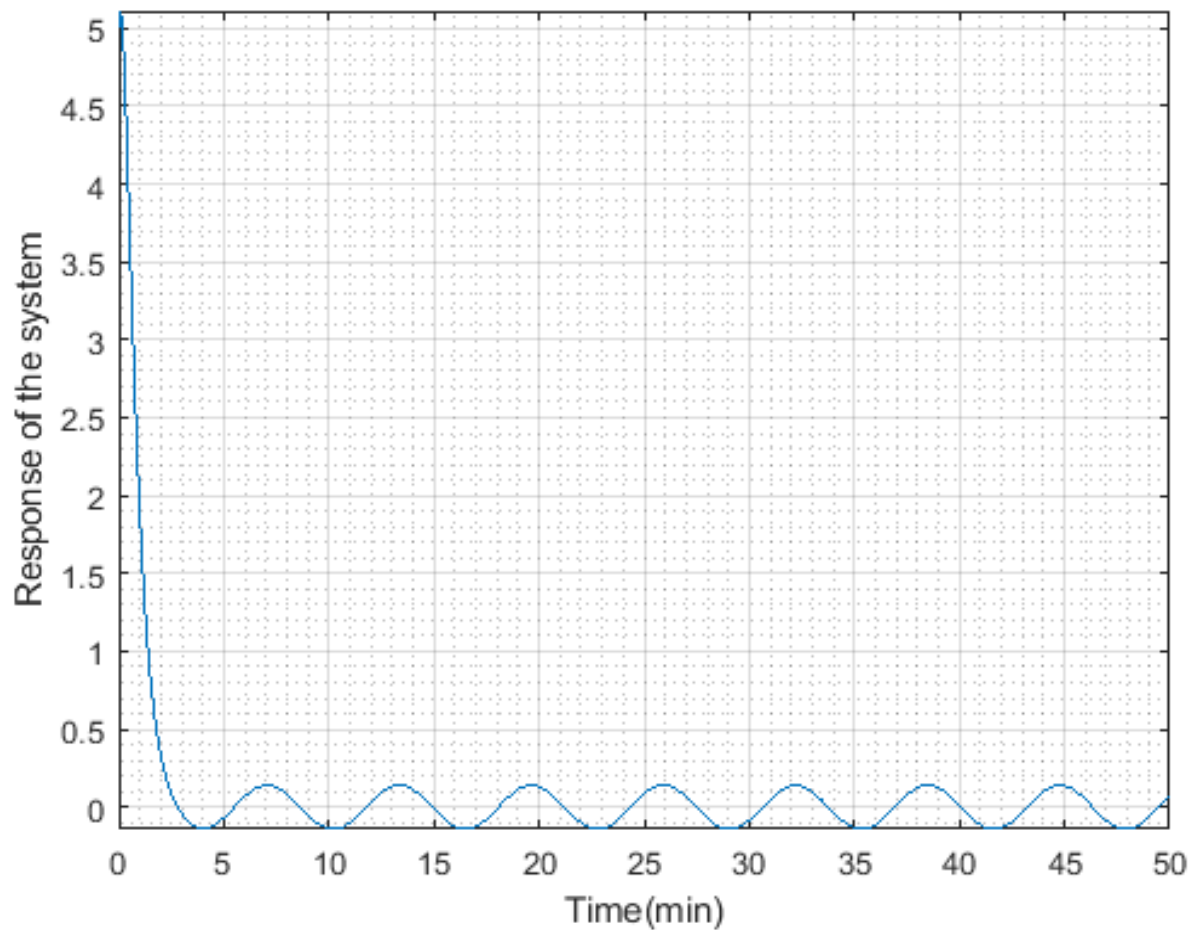
For obtaining y in terms of t

$$\begin{aligned}
 & \frac{\sqrt{2} \cos\left(t - \frac{\pi}{4}\right)}{5} \\
 & \frac{\exp(-2t) 88 - \exp(-3t) 127}{10} + \frac{\sqrt{4}}{10}
 \end{aligned}$$

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For the plot of the relationship between y and t

```
1.commandwindow
2.clear
3.clc
4.syms y(t)
5.close all
6.df = [diff(y,t,2)+5*diff(y,t)+6*y == cos(t)]
7.dy = diff(y,t)
8.dfcondition = [y(0) == 5 , dy(0) == 3]
9.dg = dsolve(df,dfcondition)
10.t = [0:0.1:50]
11.DE = subs(dg,t)
12.figure(1)
13.plot(t,DE)
14.axis tight
15.grid on
16.grid minor
17.xlabel('Time(min) ')
18.ylabel('Response of the system')
```



For the plot of the relationship between y and t

```
commandwindow
```

```
df(t) =
```

```
6*y(t) + 5*diff(y(t), t) + diff(y(t), t, t) == cos(t)
```

```
dy(t) =
```

```
diff(y(t), t)
```

```
dfcondition =
```

```
[ y(0) == 5, subs(diff(y(t), t), t, 0) == 3]
```

```
dg =
```

```
(88*exp(-2*t))/5 - (127*exp(-3*t))/10 + (2^(1/2)*cos(t - pi/4))/10
```

```
t =
```

Columns 1 through 7

For the plot of the relationship between y and t

0 0.1000 0.2000 0.3000 0.4000 0.5000 0.6000

Columns 8 through 14

0.7000 0.8000 0.9000 1.0000 1.1000 1.2000 1.3000

Columns 15 through 21

1.4000 1.5000 1.6000 1.7000 1.8000 1.9000 2.0000

Columns 22 through 28

2.1000 2.2000 2.3000 2.4000 2.5000 2.6000 2.7000

Columns 29 through 35

2.8000 2.9000 3.0000 3.1000 3.2000 3.3000 3.4000

Columns 36 through 42

3.5000 3.6000 3.7000 3.8000 3.9000 4.0000 4.1000

Columns 43 through 49

For the plot of the relationship between y and t

4.2000 4.3000 4.4000 4.5000 4.6000 4.7000 4.8000

Columns 50 through 56

4.9000 5.0000 5.1000 5.2000 5.3000 5.4000 5.5000

Columns 57 through 63

5.6000 5.7000 5.8000 5.9000 6.0000 6.1000 6.2000

Columns 64 through 70

6.3000 6.4000 6.5000 6.6000 6.7000 6.8000 6.9000

Columns 71 through 77

7.0000 7.1000 7.2000 7.3000 7.4000 7.5000 7.6000

Columns 78 through 84

7.7000 7.8000 7.9000 8.0000 8.1000 8.2000 8.3000

Columns 85 through 91

For the plot of the relationship between y and t

8.4000 8.5000 8.6000 8.7000 8.8000 8.9000 9.0000

Columns 92 through 98

9.1000 9.2000 9.3000 9.4000 9.5000 9.6000 9.7000

Columns 99 through 105

9.8000 9.9000 10.0000 10.1000 10.2000 10.3000 10.4000

Columns 106 through 112

10.5000 10.6000 10.7000 10.8000 10.9000 11.0000 11.1000

Columns 113 through 119

11.2000 11.3000 11.4000 11.5000 11.6000 11.7000 11.8000

Columns 120 through 126

11.9000 12.0000 12.1000 12.2000 12.3000 12.4000 12.5000

Columns 127 through 133

For the plot of the relationship between y and t

12.6000 12.7000 12.8000 12.9000 13.0000 13.1000 13.2000

Columns 134 through 140

13.3000 13.4000 13.5000 13.6000 13.7000 13.8000 13.9000

Columns 141 through 147

14.0000 14.1000 14.2000 14.3000 14.4000 14.5000 14.6000

Columns 148 through 154

14.7000 14.8000 14.9000 15.0000 15.1000 15.2000 15.3000

Columns 155 through 161

15.4000 15.5000 15.6000 15.7000 15.8000 15.9000 16.0000

Columns 162 through 168

16.1000 16.2000 16.3000 16.4000 16.5000 16.6000 16.7000

Columns 169 through 175

For the plot of the relationship between y and t

16.8000 16.9000 17.0000 17.1000 17.2000 17.3000 17.4000

Columns 176 through 182

17.5000 17.6000 17.7000 17.8000 17.9000 18.0000 18.1000

Columns 183 through 189

18.2000 18.3000 18.4000 18.5000 18.6000 18.7000 18.8000

Columns 190 through 196

18.9000 19.0000 19.1000 19.2000 19.3000 19.4000 19.5000

Columns 197 through 203

19.6000 19.7000 19.8000 19.9000 20.0000 20.1000 20.2000

Columns 204 through 210

20.3000 20.4000 20.5000 20.6000 20.7000 20.8000 20.9000

Columns 211 through 217

For the plot of the relationship between y and t

21.0000 21.1000 21.2000 21.3000 21.4000 21.5000 21.6000

Columns 218 through 224

21.7000 21.8000 21.9000 22.0000 22.1000 22.2000 22.3000

Columns 225 through 231

22.4000 22.5000 22.6000 22.7000 22.8000 22.9000 23.0000

Columns 232 through 238

23.1000 23.2000 23.3000 23.4000 23.5000 23.6000 23.7000

Columns 239 through 245

23.8000 23.9000 24.0000 24.1000 24.2000 24.3000 24.4000

Columns 246 through 252

24.5000 24.6000 24.7000 24.8000 24.9000 25.0000 25.1000

Columns 253 through 259

For the plot of the relationship between y and t

25.2000 25.3000 25.4000 25.5000 25.6000 25.7000 25.8000

Columns 260 through 266

25.9000 26.0000 26.1000 26.2000 26.3000 26.4000 26.5000

Columns 267 through 273

26.6000 26.7000 26.8000 26.9000 27.0000 27.1000 27.2000

Columns 274 through 280

27.3000 27.4000 27.5000 27.6000 27.7000 27.8000 27.9000

Columns 281 through 287

28.0000 28.1000 28.2000 28.3000 28.4000 28.5000 28.6000

Columns 288 through 294

28.7000 28.8000 28.9000 29.0000 29.1000 29.2000 29.3000

Columns 295 through 301

For the plot of the relationship between y and t

29.4000 29.5000 29.6000 29.7000 29.8000 29.9000 30.0000

Columns 302 through 308

30.1000 30.2000 30.3000 30.4000 30.5000 30.6000 30.7000

Columns 309 through 315

30.8000 30.9000 31.0000 31.1000 31.2000 31.3000 31.4000

Columns 316 through 322

31.5000 31.6000 31.7000 31.8000 31.9000 32.0000 32.1000

Columns 323 through 329

32.2000 32.3000 32.4000 32.5000 32.6000 32.7000 32.8000

Columns 330 through 336

32.9000 33.0000 33.1000 33.2000 33.3000 33.4000 33.5000

Columns 337 through 343

For the plot of the relationship between y and t

33.6000 33.7000 33.8000 33.9000 34.0000 34.1000 34.2000

Columns 344 through 350

34.3000 34.4000 34.5000 34.6000 34.7000 34.8000 34.9000

Columns 351 through 357

35.0000 35.1000 35.2000 35.3000 35.4000 35.5000 35.6000

Columns 358 through 364

35.7000 35.8000 35.9000 36.0000 36.1000 36.2000 36.3000

Columns 365 through 371

36.4000 36.5000 36.6000 36.7000 36.8000 36.9000 37.0000

Columns 372 through 378

37.1000 37.2000 37.3000 37.4000 37.5000 37.6000 37.7000

Columns 379 through 385

For the plot of the relationship between y and t

37.8000 37.9000 38.0000 38.1000 38.2000 38.3000 38.4000

Columns 386 through 392

38.5000 38.6000 38.7000 38.8000 38.9000 39.0000 39.1000

Columns 393 through 399

39.2000 39.3000 39.4000 39.5000 39.6000 39.7000 39.8000

Columns 400 through 406

39.9000 40.0000 40.1000 40.2000 40.3000 40.4000 40.5000

Columns 407 through 413

40.6000 40.7000 40.8000 40.9000 41.0000 41.1000 41.2000

Columns 414 through 420

41.3000 41.4000 41.5000 41.6000 41.7000 41.8000 41.9000

Columns 421 through 427

For the plot of the relationship between y and t

42.0000 42.1000 42.2000 42.3000 42.4000 42.5000 42.6000

Columns 428 through 434

42.7000 42.8000 42.9000 43.0000 43.1000 43.2000 43.3000

Columns 435 through 441

43.4000 43.5000 43.6000 43.7000 43.8000 43.9000 44.0000

Columns 442 through 448

44.1000 44.2000 44.3000 44.4000 44.5000 44.6000 44.7000

Columns 449 through 455

44.8000 44.9000 45.0000 45.1000 45.2000 45.3000 45.4000

Columns 456 through 462

45.5000 45.6000 45.7000 45.8000 45.9000 46.0000 46.1000

Columns 463 through 469

For the plot of the relationship between y and t

46.2000 46.3000 46.4000 46.5000 46.6000 46.7000 46.8000

Columns 470 through 476

46.9000 47.0000 47.1000 47.2000 47.3000 47.4000 47.5000

Columns 477 through 483

47.6000 47.7000 47.8000 47.9000 48.0000 48.1000 48.2000

Columns 484 through 490

48.3000 48.4000 48.5000 48.6000 48.7000 48.8000 48.9000

Columns 491 through 497

49.0000 49.1000 49.2000 49.3000 49.4000 49.5000 49.6000

Columns 498 through 501

49.7000 49.8000 49.9000 50.0000

For the plot of the relationship between y and t

DE =

```
[ 5, (88*exp(-1/5))/5 - (127*exp(-3/10))/10 + (2^(1/2)*cos(pi/4 - 1/10))/10, (88*exp(-2/5))/5 - (127*exp(-3/5))/10 + (2^(1/2)*cos(pi/4 - 1/5))/10, (88*exp(-3/5))/5 - (127*exp(-9/10))/10 + (2^(1/2)*cos(pi/4 - 3/10))/10, (88*exp(-4/5))/5 - (127*exp(-6/5))/10 + (2^(1/2)*cos(pi/4 - 2/5))/10, (88*exp(-1))/5 - (127*exp(-3/2))/10 + (2^(1/2)*cos(pi/4 - 1/2))/10, (88*exp(-6/5))/5 - (127*exp(-9/5))/10 + (2^(1/2)*cos(pi/4 - 3/5))/10, (88*exp(-7/5))/5 - (127*exp(-21/10))/10 + (2^(1/2)*cos(pi/4 - 7/10))/10, (88*exp(-8/5))/5 - (127*exp(-12/5))/10 + (2^(1/2)*cos(pi/4 - 4/5))/10, (88*exp(-9/5))/5 - (127*exp(-27/10))/10 + (2^(1/2)*cos(pi/4 - 9/10))/10, (88*exp(-2))/5 - (127*exp(-3))/10 + (2^(1/2)*cos(pi/4 - 1))/10, (88*exp(-11/5))/5 - (127*exp(-33/10))/10 + (2^(1/2)*cos(pi/4 - 11/10))/10, (88*exp(-12/5))/5 - (127*exp(-18/5))/10 + (2^(1/2)*cos(pi/4 - 6/5))/10, (88*exp(-13/5))/5 - (127*exp(-39/10))/10 + (2^(1/2)*cos(pi/4 - 13/10))/10, (88*exp(-14/5))/5 - (127*exp(-21/5))/10 + (2^(1/2)*cos(pi/4 - 7/5))/10, (88*exp(-3))/5 - (127*exp(-9/2))/10 + (2^(1/2)*cos(pi/4 - 3/2))/10, (88*exp(-16/5))/5 - (127*exp(-24/5))/10 + (2^(1/2)*cos(pi/4 - 8/5))/10, (88*exp(-17/5))/5 - (127*exp(-51/10))/10 + (2^(1/2)*cos(pi/4 - 17/10))/10, (88*exp(-18/5))/5 - (127*exp(-27/5))/10 + (2^(1/2)*cos(pi/4 - 9/5))/10, (88*exp(-19/5))/5 - (127*exp(-57/10))/10 + (2^(1/2)*cos(pi/4 - 19/10))/10, (88*exp(-4))/5 - (127*exp(-6))/10 + (2^(1/2)*cos(pi/4 - 2))/10, (88*exp(-21/5))/5 - (127*exp(-63/10))/10 + (2^(1/2)*cos(pi/4 - 21/10))/10, (88*exp(-22/5))/5 - (127*exp(-33/5))/10 + (2^(1/2)*cos(pi/4 - 11/5))/10, (88*exp(-23/5))/5 - (127*exp(-69/10))/10 + (2^(1/2)*cos(pi/4 - 23/10))/10, (88*exp(-24/5))/5 - (127*exp(-36/5))/10 + (2^(1/2)*cos(pi/4 - 12/5))/10, (88*exp(-5))/5 - (127*exp(-15/2))/10 + (2^(1/2)*cos(pi/4 - 5/2))/10, (88*exp(-26/5))/5 - (127*exp(-39/5))/10 + (2^(1/2)*cos(pi/4 - 13/5))/10, (88*exp(-27/5))/5 - (127*exp(-81/10))/10 + (2^(1/2)*cos(pi/4 - 27/10))/10, (88*exp(-28/5))/5 - (127*exp(-42/5))/10 + (2^(1/2)*cos(pi/4 - 14/5))/10, (88*exp(-29/5))/5 - (127*exp(-87/10))/10 + (2^(1/2)*cos(pi/4 - 29/10))/10, (88*exp(-6))/5 - (127*exp(-9))/10 + (2^(1/2)*cos(pi/4 - 3))/10, (88*exp(-31/5))/5 - (127*exp(-93/10))/10 + (2^(1/2)*cos(pi/4 - 31/10))/10, (88*exp(-32/5))/5 - (127*exp(-48/5))/10 + (2^(1/2)*cos(pi/4 - 16/5))/10, (88*exp(-33/5))/5 - (127*exp(-99/10))/10 + (2^(1/2)*cos(pi/4 - 33/10))/10, (88*exp(-34/5))/5 - (127*exp(-51/5))/10 + (2^(1/2)*cos(pi/4 - 17/5))/10, (88*exp(-7))/5 - (127*exp(-21/2))/10 + (2^(1/2)*cos(pi/4 - 7/2))/10, (88*exp(-36/5))/5 - (127*exp(-54/5))/10 + (2^(1/2)*cos(pi/4 - 18/5))/10, (88*exp(-37/5))/5 - (127*exp(-111/10))/10 + (2^(1/2)*cos(pi/4 - 37/10))/10, (88*exp(-38/5))/5 - (127*exp(-57/5))/10 + (2^(1/2)*cos(pi/4 - 19/5))/10, (88*exp(-39/5))/5 - (127*exp(-117/10))/10 + (2^(1/2)*cos(pi/4 - 39/10))/10, (88*exp(-8))/5 - (127*exp(-12))/10 + (2^(1/2)*cos(pi/4 - 4))/10, (88*exp(-41/5))/5 - (127*exp(-123/10))/10 + (2^(1/2)*cos(pi/4 - 41/10))/10, (88*exp(-42/5))/5 - (127*exp(-63/5))/10 + (2^(1/2)*cos(pi/4 - 21/5))/10, (88*exp(-43/5))/5 - (127*exp(-129/10))/10 + (2^(1/2)*cos(pi/4 - 43/10))/10, (88*exp(-44/5))/5 - (127*exp(-66/5))/10 + (2^(1/2)*cos(pi/4 - 22/5))/10, (88*exp(-9))/5 - (127*exp(-27/2))/10 + (2^(1/2)*cos(pi/4 - 9/2))/10, (88*exp(-46/5))/5 - (127*exp(-69/5))/10 + (2^(1/2)*cos(pi/4 - 23/5))/10, (88*exp(-47/5))/5 - (127*exp(-141/10))/10 + (2^(1/2)*cos(pi/4 - 47/10))/10, (88*exp(-48/5))/5 - (127*exp(-72/5))/10 + (2^(1/2)*cos(pi/4 - 24/5))/10, (88*exp(-49/5))/5 - (127*exp(-147/10))/10 + (2^(1/2)*cos(pi/4 - 49/10))/10, (88*exp(-10))/5 - (127*exp(-15))/10 + (2^(1/2)*cos(pi/4 - 5))/10, (88*exp(-51/5))/5 - (127*exp(-153/10))/10 + (2^(1/2)*cos(pi/4 - 51/10))/10, (88*exp(-52/5))/5 - (127*exp(-78/5))/10 + (2^(1/2)*cos(pi/4 - 26/5))/10, (88*exp(-53/5))/5 - (127*exp(-159/10))/10 +
```

For the plot of the relationship between y and t

```
(2^(1/2)*cos(pi/4 - 53/10))/10, (88*exp(-54/5))/5 - (127*exp(-81/5))/10 +
(2^(1/2)*cos(pi/4 - 27/5))/10, (88*exp(-11))/5 - (127*exp(-33/2))/10 +
(2^(1/2)*cos(pi/4 - 11/2))/10, (88*exp(-56/5))/5 - (127*exp(-84/5))/10 +
(2^(1/2)*cos(pi/4 - 28/5))/10, (88*exp(-57/5))/5 - (127*exp(-171/10))/10 +
(2^(1/2)*cos(pi/4 - 57/10))/10, (88*exp(-58/5))/5 - (127*exp(-87/5))/10 +
(2^(1/2)*cos(pi/4 - 29/5))/10, (88*exp(-59/5))/5 - (127*exp(-177/10))/10 +
(2^(1/2)*cos(pi/4 - 59/10))/10, (88*exp(-12))/5 - (127*exp(-18))/10 + (2^(1/2)*cos(pi/4
- 6))/10, (88*exp(-61/5))/5 - (127*exp(-183/10))/10 + (2^(1/2)*cos(pi/4 - 61/10))/10,
(88*exp(-62/5))/5 - (127*exp(-93/5))/10 + (2^(1/2)*cos(pi/4 - 31/5))/10, (88*exp(-
63/5))/5 - (127*exp(-189/10))/10 + (2^(1/2)*cos(pi/4 - 63/10))/10, (88*exp(-64/5))/5 -
(127*exp(-96/5))/10 + (2^(1/2)*cos(pi/4 - 32/5))/10, (88*exp(-13))/5 - (127*exp(-
39/2))/10 + (2^(1/2)*cos(pi/4 - 13/2))/10, (88*exp(-66/5))/5 - (127*exp(-99/5))/10 +
(2^(1/2)*cos(pi/4 - 33/5))/10, (88*exp(-67/5))/5 - (127*exp(-201/10))/10 +
(2^(1/2)*cos(pi/4 - 67/10))/10, (88*exp(-68/5))/5 - (127*exp(-102/5))/10 +
(2^(1/2)*cos(pi/4 - 34/5))/10, (88*exp(-69/5))/5 - (127*exp(-207/10))/10 +
(2^(1/2)*cos(pi/4 - 69/10))/10, (88*exp(-14))/5 - (127*exp(-21))/10 + (2^(1/2)*cos(pi/4
- 7))/10, (88*exp(-71/5))/5 - (127*exp(-213/10))/10 + (2^(1/2)*cos(pi/4 - 71/10))/10,
(88*exp(-72/5))/5 - (127*exp(-108/5))/10 + (2^(1/2)*cos(pi/4 - 36/5))/10, (88*exp(-
73/5))/5 - (127*exp(-219/10))/10 + (2^(1/2)*cos(pi/4 - 73/10))/10, (88*exp(-74/5))/5 -
(127*exp(-111/5))/10 + (2^(1/2)*cos(pi/4 - 37/5))/10, (88*exp(-15))/5 - (127*exp(-
45/2))/10 + (2^(1/2)*cos(pi/4 - 15/2))/10, (88*exp(-76/5))/5 - (127*exp(-114/5))/10 +
(2^(1/2)*cos(pi/4 - 38/5))/10, (88*exp(-77/5))/5 - (127*exp(-231/10))/10 +
(2^(1/2)*cos(pi/4 - 77/10))/10, (88*exp(-78/5))/5 - (127*exp(-117/5))/10 +
(2^(1/2)*cos(pi/4 - 39/5))/10, (88*exp(-79/5))/5 - (127*exp(-237/10))/10 +
(2^(1/2)*cos(pi/4 - 79/10))/10, (88*exp(-16))/5 - (127*exp(-24))/10 + (2^(1/2)*cos(pi/4
- 8))/10, (88*exp(-81/5))/5 - (127*exp(-243/10))/10 + (2^(1/2)*cos(pi/4 - 81/10))/10,
(88*exp(-82/5))/5 - (127*exp(-123/5))/10 + (2^(1/2)*cos(pi/4 - 41/5))/10, (88*exp(-
83/5))/5 - (127*exp(-249/10))/10 + (2^(1/2)*cos(pi/4 - 83/10))/10, (88*exp(-84/5))/5 -
(127*exp(-126/5))/10 + (2^(1/2)*cos(pi/4 - 42/5))/10, (88*exp(-17))/5 - (127*exp(-
51/2))/10 + (2^(1/2)*cos(pi/4 - 17/2))/10, (88*exp(-86/5))/5 - (127*exp(-129/5))/10 +
(2^(1/2)*cos(pi/4 - 43/5))/10, (88*exp(-87/5))/5 - (127*exp(-261/10))/10 +
(2^(1/2)*cos(pi/4 - 87/10))/10, (88*exp(-88/5))/5 - (127*exp(-132/5))/10 +
(2^(1/2)*cos(pi/4 - 44/5))/10, (88*exp(-89/5))/5 - (127*exp(-267/10))/10 +
(2^(1/2)*cos(pi/4 - 89/10))/10, (88*exp(-18))/5 - (127*exp(-27))/10 + (2^(1/2)*cos(pi/4
- 9))/10, (88*exp(-91/5))/5 - (127*exp(-273/10))/10 + (2^(1/2)*cos(pi/4 - 91/10))/10,
(88*exp(-92/5))/5 - (127*exp(-138/5))/10 + (2^(1/2)*cos(pi/4 - 46/5))/10, (88*exp(-
93/5))/5 - (127*exp(-279/10))/10 + (2^(1/2)*cos(pi/4 - 93/10))/10, (88*exp(-94/5))/5 -
(127*exp(-141/5))/10 + (2^(1/2)*cos(pi/4 - 47/5))/10, (88*exp(-19))/5 - (127*exp(-
57/2))/10 + (2^(1/2)*cos(pi/4 - 19/2))/10, (88*exp(-96/5))/5 - (127*exp(-144/5))/10 +
(2^(1/2)*cos(pi/4 - 48/5))/10, (88*exp(-97/5))/5 - (127*exp(-291/10))/10 +
(2^(1/2)*cos(pi/4 - 97/10))/10, (88*exp(-98/5))/5 - (127*exp(-147/5))/10 +
(2^(1/2)*cos(pi/4 - 49/5))/10, (88*exp(-99/5))/5 - (127*exp(-297/10))/10 +
(2^(1/2)*cos(pi/4 - 99/10))/10, (88*exp(-20))/5 - (127*exp(-30))/10 + (2^(1/2)*cos(pi/4
- 10))/10, (88*exp(-101/5))/5 - (127*exp(-303/10))/10 + (2^(1/2)*cos(pi/4 -
101/10))/10, (88*exp(-102/5))/5 - (127*exp(-153/5))/10 + (2^(1/2)*cos(pi/4 - 51/5))/10,
(88*exp(-103/5))/5 - (127*exp(-309/10))/10 + (2^(1/2)*cos(pi/4 - 103/10))/10, (88*exp(-
104/5))/5 - (127*exp(-156/5))/10 + (2^(1/2)*cos(pi/4 - 52/5))/10, (88*exp(-21))/5 -
(127*exp(-63/2))/10 + (2^(1/2)*cos(pi/4 - 21/2))/10, (88*exp(-106/5))/5 - (127*exp(-
159/5))/10 + (2^(1/2)*cos(pi/4 - 53/5))/10, (88*exp(-107/5))/5 - (127*exp(-321/10))/10
+ (2^(1/2)*cos(pi/4 - 107/10))/10, (88*exp(-108/5))/5 - (127*exp(-162/5))/10 +
(2^(1/2)*cos(pi/4 - 54/5))/10, (88*exp(-109/5))/5 - (127*exp(-327/10))/10 +
```

For the plot of the relationship between y and t

```
(2^(1/2)*cos(pi/4 - 109/10))/10, (88*exp(-22))/5 - (127*exp(-33))/10 +
(2^(1/2)*cos(pi/4 - 11))/10, (88*exp(-111/5))/5 - (127*exp(-333/10))/10 +
(2^(1/2)*cos(pi/4 - 111/10))/10, (88*exp(-112/5))/5 - (127*exp(-168/5))/10 +
(2^(1/2)*cos(pi/4 - 56/5))/10, (88*exp(-113/5))/5 - (127*exp(-339/10))/10 +
(2^(1/2)*cos(pi/4 - 113/10))/10, (88*exp(-114/5))/5 - (127*exp(-171/5))/10 +
(2^(1/2)*cos(pi/4 - 57/5))/10, (88*exp(-23))/5 - (127*exp(-69/2))/10 +
(2^(1/2)*cos(pi/4 - 23/2))/10, (88*exp(-116/5))/5 - (127*exp(-174/5))/10 +
(2^(1/2)*cos(pi/4 - 58/5))/10, (88*exp(-117/5))/5 - (127*exp(-351/10))/10 +
(2^(1/2)*cos(pi/4 - 117/10))/10, (88*exp(-118/5))/5 - (127*exp(-177/5))/10 +
(2^(1/2)*cos(pi/4 - 59/5))/10, (88*exp(-119/5))/5 - (127*exp(-357/10))/10 +
(2^(1/2)*cos(pi/4 - 119/10))/10, (88*exp(-24))/5 - (127*exp(-36))/10 +
(2^(1/2)*cos(pi/4 - 12))/10, (88*exp(-121/5))/5 - (127*exp(-363/10))/10 +
(2^(1/2)*cos(pi/4 - 121/10))/10, (88*exp(-122/5))/5 - (127*exp(-183/5))/10 +
(2^(1/2)*cos(pi/4 - 61/5))/10, (88*exp(-123/5))/5 - (127*exp(-369/10))/10 +
(2^(1/2)*cos(pi/4 - 123/10))/10, (88*exp(-124/5))/5 - (127*exp(-186/5))/10 +
(2^(1/2)*cos(pi/4 - 62/5))/10, (88*exp(-25))/5 - (127*exp(-75/2))/10 +
(2^(1/2)*cos(pi/4 - 25/2))/10, (88*exp(-126/5))/5 - (127*exp(-189/5))/10 +
(2^(1/2)*cos(pi/4 - 63/5))/10, (88*exp(-127/5))/5 - (127*exp(-381/10))/10 +
(2^(1/2)*cos(pi/4 - 127/10))/10, (88*exp(-128/5))/5 - (127*exp(-192/5))/10 +
(2^(1/2)*cos(pi/4 - 64/5))/10, (88*exp(-129/5))/5 - (127*exp(-387/10))/10 +
(2^(1/2)*cos(pi/4 - 129/10))/10, (88*exp(-26))/5 - (127*exp(-39))/10 +
(2^(1/2)*cos(pi/4 - 13))/10, (88*exp(-131/5))/5 - (127*exp(-393/10))/10 +
(2^(1/2)*cos(pi/4 - 131/10))/10, (88*exp(-132/5))/5 - (127*exp(-198/5))/10 +
(2^(1/2)*cos(pi/4 - 66/5))/10, (88*exp(-133/5))/5 - (127*exp(-399/10))/10 +
(2^(1/2)*cos(pi/4 - 133/10))/10, (88*exp(-134/5))/5 - (127*exp(-201/5))/10 +
(2^(1/2)*cos(pi/4 - 67/5))/10, (88*exp(-27))/5 - (127*exp(-81/2))/10 +
(2^(1/2)*cos(pi/4 - 27/2))/10, (88*exp(-136/5))/5 - (127*exp(-204/5))/10 +
(2^(1/2)*cos(pi/4 - 68/5))/10, (88*exp(-137/5))/5 - (127*exp(-411/10))/10 +
(2^(1/2)*cos(pi/4 - 137/10))/10, (88*exp(-138/5))/5 - (127*exp(-207/5))/10 +
(2^(1/2)*cos(pi/4 - 69/5))/10, (88*exp(-139/5))/5 - (127*exp(-417/10))/10 +
(2^(1/2)*cos(pi/4 - 139/10))/10, (88*exp(-28))/5 - (127*exp(-42))/10 +
(2^(1/2)*cos(pi/4 - 14))/10, (88*exp(-141/5))/5 - (127*exp(-423/10))/10 +
(2^(1/2)*cos(pi/4 - 141/10))/10, (88*exp(-142/5))/5 - (127*exp(-213/5))/10 +
(2^(1/2)*cos(pi/4 - 71/5))/10, (88*exp(-143/5))/5 - (127*exp(-429/10))/10 +
(2^(1/2)*cos(pi/4 - 143/10))/10, (88*exp(-144/5))/5 - (127*exp(-216/5))/10 +
(2^(1/2)*cos(pi/4 - 72/5))/10, (88*exp(-29))/5 - (127*exp(-87/2))/10 +
(2^(1/2)*cos(pi/4 - 29/2))/10, (88*exp(-146/5))/5 - (127*exp(-219/5))/10 +
(2^(1/2)*cos(pi/4 - 73/5))/10, (88*exp(-147/5))/5 - (127*exp(-441/10))/10 +
(2^(1/2)*cos(pi/4 - 147/10))/10, (88*exp(-148/5))/5 - (127*exp(-222/5))/10 +
(2^(1/2)*cos(pi/4 - 74/5))/10, (88*exp(-149/5))/5 - (127*exp(-447/10))/10 +
(2^(1/2)*cos(pi/4 - 149/10))/10, (88*exp(-30))/5 - (127*exp(-45))/10 +
(2^(1/2)*cos(pi/4 - 15))/10, (88*exp(-151/5))/5 - (127*exp(-453/10))/10 +
(2^(1/2)*cos(pi/4 - 151/10))/10, (88*exp(-152/5))/5 - (127*exp(-228/5))/10 +
(2^(1/2)*cos(pi/4 - 76/5))/10, (88*exp(-153/5))/5 - (127*exp(-459/10))/10 +
(2^(1/2)*cos(pi/4 - 153/10))/10, (88*exp(-154/5))/5 - (127*exp(-231/5))/10 +
(2^(1/2)*cos(pi/4 - 77/5))/10, (88*exp(-31))/5 - (127*exp(-93/2))/10 +
(2^(1/2)*cos(pi/4 - 31/2))/10, (88*exp(-156/5))/5 - (127*exp(-234/5))/10 +
(2^(1/2)*cos(pi/4 - 78/5))/10, (88*exp(-157/5))/5 - (127*exp(-471/10))/10 +
(2^(1/2)*cos(pi/4 - 157/10))/10, (88*exp(-158/5))/5 - (127*exp(-237/5))/10 +
(2^(1/2)*cos(pi/4 - 79/5))/10, (88*exp(-159/5))/5 - (127*exp(-477/10))/10 +
(2^(1/2)*cos(pi/4 - 159/10))/10, (88*exp(-32))/5 - (127*exp(-48))/10 +
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For the plot of the relationship between y and t

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(2^(1/2)*cos(pi/4 - 16))/10, (88*exp(-161/5))/5 - (127*exp(-483/10))/10 +
(2^(1/2)*cos(pi/4 - 161/10))/10, (88*exp(-162/5))/5 - (127*exp(-243/5))/10 +
(2^(1/2)*cos(pi/4 - 81/5))/10, (88*exp(-163/5))/5 - (127*exp(-489/10))/10 +
(2^(1/2)*cos(pi/4 - 163/10))/10, (88*exp(-164/5))/5 - (127*exp(-246/5))/10 +
(2^(1/2)*cos(pi/4 - 82/5))/10, (88*exp(-33))/5 - (127*exp(-99/2))/10 +
(2^(1/2)*cos(pi/4 - 33/2))/10, (88*exp(-166/5))/5 - (127*exp(-249/5))/10 +
(2^(1/2)*cos(pi/4 - 83/5))/10, (88*exp(-167/5))/5 - (127*exp(-501/10))/10 +
(2^(1/2)*cos(pi/4 - 167/10))/10, (88*exp(-168/5))/5 - (127*exp(-252/5))/10 +
(2^(1/2)*cos(pi/4 - 84/5))/10, (88*exp(-169/5))/5 - (127*exp(-507/10))/10 +
(2^(1/2)*cos(pi/4 - 169/10))/10, (88*exp(-34))/5 - (127*exp(-51))/10 +
(2^(1/2)*cos(pi/4 - 17))/10, (88*exp(-171/5))/5 - (127*exp(-513/10))/10 +
(2^(1/2)*cos(pi/4 - 171/10))/10, (88*exp(-172/5))/5 - (127*exp(-258/5))/10 +
(2^(1/2)*cos(pi/4 - 86/5))/10, (88*exp(-173/5))/5 - (127*exp(-519/10))/10 +
(2^(1/2)*cos(pi/4 - 173/10))/10, (88*exp(-174/5))/5 - (127*exp(-261/5))/10 +
(2^(1/2)*cos(pi/4 - 87/5))/10, (88*exp(-35))/5 - (127*exp(-105/2))/10 +
(2^(1/2)*cos(pi/4 - 35/2))/10, (88*exp(-176/5))/5 - (127*exp(-264/5))/10 +
(2^(1/2)*cos(pi/4 - 88/5))/10, (88*exp(-177/5))/5 - (127*exp(-531/10))/10 +
(2^(1/2)*cos(pi/4 - 177/10))/10, (88*exp(-178/5))/5 - (127*exp(-267/5))/10 +
(2^(1/2)*cos(pi/4 - 89/5))/10, (88*exp(-179/5))/5 - (127*exp(-537/10))/10 +
(2^(1/2)*cos(pi/4 - 179/10))/10, (88*exp(-36))/5 - (127*exp(-54))/10 +
(2^(1/2)*cos(pi/4 - 18))/10, (88*exp(-181/5))/5 - (127*exp(-543/10))/10 +
(2^(1/2)*cos(pi/4 - 181/10))/10, (88*exp(-182/5))/5 - (127*exp(-273/5))/10 +
(2^(1/2)*cos(pi/4 - 91/5))/10, (88*exp(-183/5))/5 - (127*exp(-549/10))/10 +
(2^(1/2)*cos(pi/4 - 183/10))/10, (88*exp(-184/5))/5 - (127*exp(-276/5))/10 +
(2^(1/2)*cos(pi/4 - 92/5))/10, (88*exp(-37))/5 - (127*exp(-111/2))/10 +
(2^(1/2)*cos(pi/4 - 37/2))/10, (88*exp(-186/5))/5 - (127*exp(-279/5))/10 +
(2^(1/2)*cos(pi/4 - 93/5))/10, (88*exp(-187/5))/5 - (127*exp(-561/10))/10 +
(2^(1/2)*cos(pi/4 - 187/10))/10, (88*exp(-188/5))/5 - (127*exp(-282/5))/10 +
(2^(1/2)*cos(pi/4 - 94/5))/10, (88*exp(-189/5))/5 - (127*exp(-567/10))/10 +
(2^(1/2)*cos(pi/4 - 189/10))/10, (88*exp(-38))/5 - (127*exp(-57))/10 +
(2^(1/2)*cos(pi/4 - 19))/10, (88*exp(-191/5))/5 - (127*exp(-573/10))/10 +
(2^(1/2)*cos(pi/4 - 191/10))/10, (88*exp(-192/5))/5 - (127*exp(-288/5))/10 +
(2^(1/2)*cos(pi/4 - 96/5))/10, (88*exp(-193/5))/5 - (127*exp(-579/10))/10 +
(2^(1/2)*cos(pi/4 - 193/10))/10, (88*exp(-194/5))/5 - (127*exp(-291/5))/10 +
(2^(1/2)*cos(pi/4 - 97/5))/10, (88*exp(-39))/5 - (127*exp(-117/2))/10 +
(2^(1/2)*cos(pi/4 - 39/2))/10, (88*exp(-196/5))/5 - (127*exp(-294/5))/10 +
(2^(1/2)*cos(pi/4 - 98/5))/10, (88*exp(-197/5))/5 - (127*exp(-591/10))/10 +
(2^(1/2)*cos(pi/4 - 197/10))/10, (88*exp(-198/5))/5 - (127*exp(-297/5))/10 +
(2^(1/2)*cos(pi/4 - 99/5))/10, (88*exp(-199/5))/5 - (127*exp(-597/10))/10 +
(2^(1/2)*cos(pi/4 - 199/10))/10, (88*exp(-40))/5 - (127*exp(-60))/10 +
(2^(1/2)*cos(pi/4 - 20))/10, (88*exp(-201/5))/5 - (127*exp(-603/10))/10 +
(2^(1/2)*cos(pi/4 - 201/10))/10, (88*exp(-202/5))/5 - (127*exp(-303/5))/10 +
(2^(1/2)*cos(pi/4 - 101/5))/10, (88*exp(-203/5))/5 - (127*exp(-609/10))/10 +
(2^(1/2)*cos(pi/4 - 203/10))/10, (88*exp(-204/5))/5 - (127*exp(-306/5))/10 +
(2^(1/2)*cos(pi/4 - 102/5))/10, (88*exp(-41))/5 - (127*exp(-123/2))/10 +
(2^(1/2)*cos(pi/4 - 41/2))/10, (88*exp(-206/5))/5 - (127*exp(-309/5))/10 +
(2^(1/2)*cos(pi/4 - 103/5))/10, (88*exp(-207/5))/5 - (127*exp(-621/10))/10 +
(2^(1/2)*cos(pi/4 - 207/10))/10, (88*exp(-208/5))/5 - (127*exp(-312/5))/10 +
(2^(1/2)*cos(pi/4 - 104/5))/10, (88*exp(-209/5))/5 - (127*exp(-627/10))/10 +
(2^(1/2)*cos(pi/4 - 209/10))/10, (88*exp(-42))/5 - (127*exp(-63))/10 +
(2^(1/2)*cos(pi/4 - 21))/10, (88*exp(-211/5))/5 - (127*exp(-633/10))/10 +
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For the plot of the relationship between y and t

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(2^(1/2)*cos(pi/4 - 211/10))/10, (88*exp(-212/5))/5 - (127*exp(-318/5))/10 +
(2^(1/2)*cos(pi/4 - 106/5))/10, (88*exp(-213/5))/5 - (127*exp(-639/10))/10 +
(2^(1/2)*cos(pi/4 - 213/10))/10, (88*exp(-214/5))/5 - (127*exp(-321/5))/10 +
(2^(1/2)*cos(pi/4 - 107/5))/10, (88*exp(-43))/5 - (127*exp(-129/2))/10 +
(2^(1/2)*cos(pi/4 - 43/2))/10, (88*exp(-216/5))/5 - (127*exp(-324/5))/10 +
(2^(1/2)*cos(pi/4 - 108/5))/10, (88*exp(-217/5))/5 - (127*exp(-651/10))/10 +
(2^(1/2)*cos(pi/4 - 217/10))/10, (88*exp(-218/5))/5 - (127*exp(-327/5))/10 +
(2^(1/2)*cos(pi/4 - 109/5))/10, (88*exp(-219/5))/5 - (127*exp(-657/10))/10 +
(2^(1/2)*cos(pi/4 - 219/10))/10, (88*exp(-44))/5 - (127*exp(-66))/10 +
(2^(1/2)*cos(pi/4 - 22))/10, (88*exp(-221/5))/5 - (127*exp(-663/10))/10 +
(2^(1/2)*cos(pi/4 - 221/10))/10, (88*exp(-222/5))/5 - (127*exp(-333/5))/10 +
(2^(1/2)*cos(pi/4 - 111/5))/10, (88*exp(-223/5))/5 - (127*exp(-669/10))/10 +
(2^(1/2)*cos(pi/4 - 223/10))/10, (88*exp(-224/5))/5 - (127*exp(-336/5))/10 +
(2^(1/2)*cos(pi/4 - 112/5))/10, (88*exp(-45))/5 - (127*exp(-135/2))/10 +
(2^(1/2)*cos(pi/4 - 45/2))/10, (88*exp(-226/5))/5 - (127*exp(-339/5))/10 +
(2^(1/2)*cos(pi/4 - 113/5))/10, (88*exp(-227/5))/5 - (127*exp(-681/10))/10 +
(2^(1/2)*cos(pi/4 - 227/10))/10, (88*exp(-228/5))/5 - (127*exp(-342/5))/10 +
(2^(1/2)*cos(pi/4 - 114/5))/10, (88*exp(-229/5))/5 - (127*exp(-687/10))/10 +
(2^(1/2)*cos(pi/4 - 229/10))/10, (88*exp(-46))/5 - (127*exp(-69))/10 +
(2^(1/2)*cos(pi/4 - 23))/10, (88*exp(-231/5))/5 - (127*exp(-693/10))/10 +
(2^(1/2)*cos(pi/4 - 231/10))/10, (88*exp(-232/5))/5 - (127*exp(-348/5))/10 +
(2^(1/2)*cos(pi/4 - 116/5))/10, (88*exp(-233/5))/5 - (127*exp(-699/10))/10 +
(2^(1/2)*cos(pi/4 - 233/10))/10, (88*exp(-234/5))/5 - (127*exp(-351/5))/10 +
(2^(1/2)*cos(pi/4 - 117/5))/10, (88*exp(-47))/5 - (127*exp(-141/2))/10 +
(2^(1/2)*cos(pi/4 - 47/2))/10, (88*exp(-236/5))/5 - (127*exp(-354/5))/10 +
(2^(1/2)*cos(pi/4 - 118/5))/10, (88*exp(-237/5))/5 - (127*exp(-711/10))/10 +
(2^(1/2)*cos(pi/4 - 237/10))/10, (88*exp(-238/5))/5 - (127*exp(-357/5))/10 +
(2^(1/2)*cos(pi/4 - 119/5))/10, (88*exp(-239/5))/5 - (127*exp(-717/10))/10 +
(2^(1/2)*cos(pi/4 - 239/10))/10, (88*exp(-48))/5 - (127*exp(-72))/10 +
(2^(1/2)*cos(pi/4 - 24))/10, (88*exp(-241/5))/5 - (127*exp(-723/10))/10 +
(2^(1/2)*cos(pi/4 - 241/10))/10, (88*exp(-242/5))/5 - (127*exp(-363/5))/10 +
(2^(1/2)*cos(pi/4 - 121/5))/10, (88*exp(-243/5))/5 - (127*exp(-729/10))/10 +
(2^(1/2)*cos(pi/4 - 243/10))/10, (88*exp(-244/5))/5 - (127*exp(-366/5))/10 +
(2^(1/2)*cos(pi/4 - 122/5))/10, (88*exp(-49))/5 - (127*exp(-147/2))/10 +
(2^(1/2)*cos(pi/4 - 49/2))/10, (88*exp(-246/5))/5 - (127*exp(-369/5))/10 +
(2^(1/2)*cos(pi/4 - 123/5))/10, (88*exp(-247/5))/5 - (127*exp(-741/10))/10 +
(2^(1/2)*cos(pi/4 - 247/10))/10, (88*exp(-248/5))/5 - (127*exp(-372/5))/10 +
(2^(1/2)*cos(pi/4 - 124/5))/10, (88*exp(-249/5))/5 - (127*exp(-747/10))/10 +
(2^(1/2)*cos(pi/4 - 249/10))/10, (88*exp(-50))/5 - (127*exp(-75))/10 +
(2^(1/2)*cos(pi/4 - 25))/10, (88*exp(-251/5))/5 - (127*exp(-753/10))/10 +
(2^(1/2)*cos(pi/4 - 251/10))/10, (88*exp(-252/5))/5 - (127*exp(-378/5))/10 +
(2^(1/2)*cos(pi/4 - 126/5))/10, (88*exp(-253/5))/5 - (127*exp(-759/10))/10 +
(2^(1/2)*cos(pi/4 - 253/10))/10, (88*exp(-254/5))/5 - (127*exp(-381/5))/10 +
(2^(1/2)*cos(pi/4 - 127/5))/10, (88*exp(-51))/5 - (127*exp(-153/2))/10 +
(2^(1/2)*cos(pi/4 - 51/2))/10, (88*exp(-256/5))/5 - (127*exp(-384/5))/10 +
(2^(1/2)*cos(pi/4 - 128/5))/10, (88*exp(-257/5))/5 - (127*exp(-771/10))/10 +
(2^(1/2)*cos(pi/4 - 257/10))/10, (88*exp(-258/5))/5 - (127*exp(-387/5))/10 +
(2^(1/2)*cos(pi/4 - 129/5))/10, (88*exp(-259/5))/5 - (127*exp(-777/10))/10 +
(2^(1/2)*cos(pi/4 - 259/10))/10, (88*exp(-52))/5 - (127*exp(-78))/10 +
(2^(1/2)*cos(pi/4 - 26))/10, (88*exp(-261/5))/5 - (127*exp(-783/10))/10 +
(2^(1/2)*cos(pi/4 - 261/10))/10, (88*exp(-262/5))/5 - (127*exp(-393/5))/10 +
```

For the plot of the relationship between y and t

```
(2^(1/2)*cos(pi/4 - 131/5))/10, (88*exp(-263/5))/5 - (127*exp(-789/10))/10 +  
(2^(1/2)*cos(pi/4 - 263/10))/10, (88*exp(-264/5))/5 - (127*exp(-396/5))/10 +  
(2^(1/2)*cos(pi/4 - 132/5))/10, (88*exp(-53))/5 - (127*exp(-159/2))/10 +  
(2^(1/2)*cos(pi/4 - 53/2))/10, (88*exp(-266/5))/5 - (127*exp(-399/5))/10 +  
(2^(1/2)*cos(pi/4 - 133/5))/10, (88*exp(-267/5))/5 - (127*exp(-801/10))/10 +  
(2^(1/2)*cos(pi/4 - 267/10))/10, (88*exp(-268/5))/5 - (127*exp(-402/5))/10 +  
(2^(1/2)*cos(pi/4 - 134/5))/10, (88*exp(-269/5))/5 - (127*exp(-807/10))/10 +  
(2^(1/2)*cos(pi/4 - 269/10))/10, (88*exp(-54))/5 - (127*exp(-81))/10 +  
(2^(1/2)*cos(pi/4 - 27))/10, (88*exp(-271/5))/5 - (127*exp(-813/10))/10 +  
(2^(1/2)*cos(pi/4 - 271/10))/10, (88*exp(-272/5))/5 - (127*exp(-408/5))/10 +  
(2^(1/2)*cos(pi/4 - 136/5))/10, (88*exp(-273/5))/5 - (127*exp(-819/10))/10 +  
(2^(1/2)*cos(pi/4 - 273/10))/10, (88*exp(-274/5))/5 - (127*exp(-411/5))/10 +  
(2^(1/2)*cos(pi/4 - 137/5))/10, (88*exp(-55))/5 - (127*exp(-165/2))/10 +  
(2^(1/2)*cos(pi/4 - 55/2))/10, (88*exp(-276/5))/5 - (127*exp(-414/5))/10 +  
(2^(1/2)*cos(pi/4 - 138/5))/10, (88*exp(-277/5))/5 - (127*exp(-831/10))/10 +  
(2^(1/2)*cos(pi/4 - 277/10))/10, (88*exp(-278/5))/5 - (127*exp(-417/5))/10 +  
(2^(1/2)*cos(pi/4 - 139/5))/10, (88*exp(-279/5))/5 - (127*exp(-837/10))/10 +  
(2^(1/2)*cos(pi/4 - 279/10))/10, (88*exp(-56))/5 - (127*exp(-84))/10 +  
(2^(1/2)*cos(pi/4 - 28))/10, (88*exp(-281/5))/5 - (127*exp(-843/10))/10 +  
(2^(1/2)*cos(pi/4 - 281/10))/10, (88*exp(-282/5))/5 - (127*exp(-423/5))/10 +  
(2^(1/2)*cos(pi/4 - 141/5))/10, (88*exp(-283/5))/5 - (127*exp(-849/10))/10 +  
(2^(1/2)*cos(pi/4 - 283/10))/10, (88*exp(-284/5))/5 - (127*exp(-426/5))/10 +  
(2^(1/2)*cos(pi/4 - 142/5))/10, (88*exp(-57))/5 - (127*exp(-171/2))/10 +  
(2^(1/2)*cos(pi/4 - 57/2))/10, (88*exp(-286/5))/5 - (127*exp(-429/5))/10 +  
(2^(1/2)*cos(pi/4 - 143/5))/10, (88*exp(-287/5))/5 - (127*exp(-861/10))/10 +  
(2^(1/2)*cos(pi/4 - 287/10))/10, (88*exp(-288/5))/5 - (127*exp(-432/5))/10 +  
(2^(1/2)*cos(pi/4 - 144/5))/10, (88*exp(-289/5))/5 - (127*exp(-867/10))/10 +  
(2^(1/2)*cos(pi/4 - 289/10))/10, (88*exp(-58))/5 - (127*exp(-87))/10 +  
(2^(1/2)*cos(pi/4 - 29))/10, (88*exp(-291/5))/5 - (127*exp(-873/10))/10 +  
(2^(1/2)*cos(pi/4 - 291/10))/10, (88*exp(-292/5))/5 - (127*exp(-438/5))/10 +  
(2^(1/2)*cos(pi/4 - 146/5))/10, (88*exp(-293/5))/5 - (127*exp(-879/10))/10 +  
(2^(1/2)*cos(pi/4 - 293/10))/10, (88*exp(-294/5))/5 - (127*exp(-441/5))/10 +  
(2^(1/2)*cos(pi/4 - 147/5))/10, (88*exp(-59))/5 - (127*exp(-177/2))/10 +  
(2^(1/2)*cos(pi/4 - 59/2))/10, (88*exp(-296/5))/5 - (127*exp(-444/5))/10 +  
(2^(1/2)*cos(pi/4 - 148/5))/10, (88*exp(-297/5))/5 - (127*exp(-891/10))/10 +  
(2^(1/2)*cos(pi/4 - 297/10))/10, (88*exp(-298/5))/5 - (127*exp(-447/5))/10 +  
(2^(1/2)*cos(pi/4 - 149/5))/10, (88*exp(-299/5))/5 - (127*exp(-897/10))/10 +  
(2^(1/2)*cos(pi/4 - 299/10))/10, (88*exp(-60))/5 - (127*exp(-90))/10 +  
(2^(1/2)*cos(pi/4 - 30))/10, (88*exp(-301/5))/5 - (127*exp(-903/10))/10 +  
(2^(1/2)*cos(pi/4 - 301/10))/10, (88*exp(-302/5))/5 - (127*exp(-453/5))/10 +  
(2^(1/2)*cos(pi/4 - 151/5))/10, (88*exp(-303/5))/5 - (127*exp(-909/10))/10 +  
(2^(1/2)*cos(pi/4 - 303/10))/10, (88*exp(-304/5))/5 - (127*exp(-456/5))/10 +  
(2^(1/2)*cos(pi/4 - 152/5))/10, (88*exp(-61))/5 - (127*exp(-183/2))/10 +  
(2^(1/2)*cos(pi/4 - 61/2))/10, (88*exp(-306/5))/5 - (127*exp(-459/5))/10 +  
(2^(1/2)*cos(pi/4 - 153/5))/10, (88*exp(-307/5))/5 - (127*exp(-921/10))/10 +  
(2^(1/2)*cos(pi/4 - 307/10))/10, (88*exp(-308/5))/5 - (127*exp(-462/5))/10 +  
(2^(1/2)*cos(pi/4 - 154/5))/10, (88*exp(-309/5))/5 - (127*exp(-927/10))/10 +  
(2^(1/2)*cos(pi/4 - 309/10))/10, (88*exp(-62))/5 - (127*exp(-93))/10 +  
(2^(1/2)*cos(pi/4 - 31))/10, (88*exp(-311/5))/5 - (127*exp(-933/10))/10 +  
(2^(1/2)*cos(pi/4 - 311/10))/10, (88*exp(-312/5))/5 - (127*exp(-468/5))/10 +  
(2^(1/2)*cos(pi/4 - 156/5))/10, (88*exp(-313/5))/5 - (127*exp(-939/10))/10 +
```

For the plot of the relationship between y and t

```
(2^(1/2)*cos(pi/4 - 313/10))/10, (88*exp(-314/5))/5 - (127*exp(-471/5))/10 +
(2^(1/2)*cos(pi/4 - 157/5))/10, (88*exp(-63))/5 - (127*exp(-189/2))/10 +
(2^(1/2)*cos(pi/4 - 63/2))/10, (88*exp(-316/5))/5 - (127*exp(-474/5))/10 +
(2^(1/2)*cos(pi/4 - 158/5))/10, (88*exp(-317/5))/5 - (127*exp(-951/10))/10 +
(2^(1/2)*cos(pi/4 - 317/10))/10, (88*exp(-318/5))/5 - (127*exp(-477/5))/10 +
(2^(1/2)*cos(pi/4 - 159/5))/10, (88*exp(-319/5))/5 - (127*exp(-957/10))/10 +
(2^(1/2)*cos(pi/4 - 319/10))/10, (88*exp(-64))/5 - (127*exp(-96))/10 +
(2^(1/2)*cos(pi/4 - 32))/10, (88*exp(-321/5))/5 - (127*exp(-963/10))/10 +
(2^(1/2)*cos(pi/4 - 321/10))/10, (88*exp(-322/5))/5 - (127*exp(-483/5))/10 +
(2^(1/2)*cos(pi/4 - 161/5))/10, (88*exp(-323/5))/5 - (127*exp(-969/10))/10 +
(2^(1/2)*cos(pi/4 - 323/10))/10, (88*exp(-324/5))/5 - (127*exp(-486/5))/10 +
(2^(1/2)*cos(pi/4 - 162/5))/10, (88*exp(-65))/5 - (127*exp(-195/2))/10 +
(2^(1/2)*cos(pi/4 - 65/2))/10, (88*exp(-326/5))/5 - (127*exp(-489/5))/10 +
(2^(1/2)*cos(pi/4 - 163/5))/10, (88*exp(-327/5))/5 - (127*exp(-981/10))/10 +
(2^(1/2)*cos(pi/4 - 327/10))/10, (88*exp(-328/5))/5 - (127*exp(-492/5))/10 +
(2^(1/2)*cos(pi/4 - 164/5))/10, (88*exp(-329/5))/5 - (127*exp(-987/10))/10 +
(2^(1/2)*cos(pi/4 - 329/10))/10, (88*exp(-66))/5 - (127*exp(-99))/10 +
(2^(1/2)*cos(pi/4 - 33))/10, (88*exp(-331/5))/5 - (127*exp(-993/10))/10 +
(2^(1/2)*cos(pi/4 - 331/10))/10, (88*exp(-332/5))/5 - (127*exp(-498/5))/10 +
(2^(1/2)*cos(pi/4 - 166/5))/10, (88*exp(-333/5))/5 - (127*exp(-999/10))/10 +
(2^(1/2)*cos(pi/4 - 333/10))/10, (88*exp(-334/5))/5 - (127*exp(-501/5))/10 +
(2^(1/2)*cos(pi/4 - 167/5))/10, (88*exp(-67))/5 - (127*exp(-201/2))/10 +
(2^(1/2)*cos(pi/4 - 67/2))/10, (88*exp(-336/5))/5 - (127*exp(-504/5))/10 +
(2^(1/2)*cos(pi/4 - 168/5))/10, (88*exp(-337/5))/5 - (127*exp(-1011/10))/10 +
(2^(1/2)*cos(pi/4 - 337/10))/10, (88*exp(-338/5))/5 - (127*exp(-507/5))/10 +
(2^(1/2)*cos(pi/4 - 169/5))/10, (88*exp(-339/5))/5 - (127*exp(-1017/10))/10 +
(2^(1/2)*cos(pi/4 - 339/10))/10, (88*exp(-68))/5 - (127*exp(-102))/10 +
(2^(1/2)*cos(pi/4 - 34))/10, (88*exp(-341/5))/5 - (127*exp(-1023/10))/10 +
(2^(1/2)*cos(pi/4 - 341/10))/10, (88*exp(-342/5))/5 - (127*exp(-513/5))/10 +
(2^(1/2)*cos(pi/4 - 171/5))/10, (88*exp(-343/5))/5 - (127*exp(-1029/10))/10 +
(2^(1/2)*cos(pi/4 - 343/10))/10, (88*exp(-344/5))/5 - (127*exp(-516/5))/10 +
(2^(1/2)*cos(pi/4 - 172/5))/10, (88*exp(-69))/5 - (127*exp(-207/2))/10 +
(2^(1/2)*cos(pi/4 - 69/2))/10, (88*exp(-346/5))/5 - (127*exp(-519/5))/10 +
(2^(1/2)*cos(pi/4 - 173/5))/10, (88*exp(-347/5))/5 - (127*exp(-1041/10))/10 +
(2^(1/2)*cos(pi/4 - 347/10))/10, (88*exp(-348/5))/5 - (127*exp(-522/5))/10 +
(2^(1/2)*cos(pi/4 - 174/5))/10, (88*exp(-349/5))/5 - (127*exp(-1047/10))/10 +
(2^(1/2)*cos(pi/4 - 349/10))/10, (88*exp(-70))/5 - (127*exp(-105))/10 +
(2^(1/2)*cos(pi/4 - 35))/10, (88*exp(-351/5))/5 - (127*exp(-1053/10))/10 +
(2^(1/2)*cos(pi/4 - 351/10))/10, (88*exp(-352/5))/5 - (127*exp(-528/5))/10 +
(2^(1/2)*cos(pi/4 - 176/5))/10, (88*exp(-353/5))/5 - (127*exp(-1059/10))/10 +
(2^(1/2)*cos(pi/4 - 353/10))/10, (88*exp(-354/5))/5 - (127*exp(-531/5))/10 +
(2^(1/2)*cos(pi/4 - 177/5))/10, (88*exp(-71))/5 - (127*exp(-213/2))/10 +
(2^(1/2)*cos(pi/4 - 71/2))/10, (88*exp(-356/5))/5 - (127*exp(-534/5))/10 +
(2^(1/2)*cos(pi/4 - 178/5))/10, (88*exp(-357/5))/5 - (127*exp(-1071/10))/10 +
(2^(1/2)*cos(pi/4 - 357/10))/10, (88*exp(-358/5))/5 - (127*exp(-537/5))/10 +
(2^(1/2)*cos(pi/4 - 179/5))/10, (88*exp(-359/5))/5 - (127*exp(-1077/10))/10 +
(2^(1/2)*cos(pi/4 - 359/10))/10, (88*exp(-72))/5 - (127*exp(-108))/10 +
(2^(1/2)*cos(pi/4 - 36))/10, (88*exp(-361/5))/5 - (127*exp(-1083/10))/10 +
(2^(1/2)*cos(pi/4 - 361/10))/10, (88*exp(-362/5))/5 - (127*exp(-543/5))/10 +
(2^(1/2)*cos(pi/4 - 181/5))/10, (88*exp(-363/5))/5 - (127*exp(-1089/10))/10 +
(2^(1/2)*cos(pi/4 - 363/10))/10, (88*exp(-364/5))/5 - (127*exp(-546/5))/10 +
```

For the plot of the relationship between y and t

```
(2^(1/2)*cos(pi/4 - 182/5))/10, (88*exp(-73))/5 - (127*exp(-219/2))/10 +  
(2^(1/2)*cos(pi/4 - 73/2))/10, (88*exp(-366/5))/5 - (127*exp(-549/5))/10 +  
(2^(1/2)*cos(pi/4 - 183/5))/10, (88*exp(-367/5))/5 - (127*exp(-1101/10))/10 +  
(2^(1/2)*cos(pi/4 - 367/10))/10, (88*exp(-368/5))/5 - (127*exp(-552/5))/10 +  
(2^(1/2)*cos(pi/4 - 184/5))/10, (88*exp(-369/5))/5 - (127*exp(-1107/10))/10 +  
(2^(1/2)*cos(pi/4 - 369/10))/10, (88*exp(-74))/5 - (127*exp(-111))/10 +  
(2^(1/2)*cos(pi/4 - 37))/10, (88*exp(-371/5))/5 - (127*exp(-1113/10))/10 +  
(2^(1/2)*cos(pi/4 - 371/10))/10, (88*exp(-372/5))/5 - (127*exp(-558/5))/10 +  
(2^(1/2)*cos(pi/4 - 186/5))/10, (88*exp(-373/5))/5 - (127*exp(-1119/10))/10 +  
(2^(1/2)*cos(pi/4 - 373/10))/10, (88*exp(-374/5))/5 - (127*exp(-561/5))/10 +  
(2^(1/2)*cos(pi/4 - 187/5))/10, (88*exp(-75))/5 - (127*exp(-225/2))/10 +  
(2^(1/2)*cos(pi/4 - 75/2))/10, (88*exp(-376/5))/5 - (127*exp(-564/5))/10 +  
(2^(1/2)*cos(pi/4 - 188/5))/10, (88*exp(-377/5))/5 - (127*exp(-1131/10))/10 +  
(2^(1/2)*cos(pi/4 - 377/10))/10, (88*exp(-378/5))/5 - (127*exp(-567/5))/10 +  
(2^(1/2)*cos(pi/4 - 189/5))/10, (88*exp(-379/5))/5 - (127*exp(-1137/10))/10 +  
(2^(1/2)*cos(pi/4 - 379/10))/10, (88*exp(-76))/5 - (127*exp(-114))/10 +  
(2^(1/2)*cos(pi/4 - 38))/10, (88*exp(-381/5))/5 - (127*exp(-1143/10))/10 +  
(2^(1/2)*cos(pi/4 - 381/10))/10, (88*exp(-382/5))/5 - (127*exp(-573/5))/10 +  
(2^(1/2)*cos(pi/4 - 191/5))/10, (88*exp(-383/5))/5 - (127*exp(-1149/10))/10 +  
(2^(1/2)*cos(pi/4 - 383/10))/10, (88*exp(-384/5))/5 - (127*exp(-576/5))/10 +  
(2^(1/2)*cos(pi/4 - 192/5))/10, (88*exp(-77))/5 - (127*exp(-231/2))/10 +  
(2^(1/2)*cos(pi/4 - 77/2))/10, (88*exp(-386/5))/5 - (127*exp(-579/5))/10 +  
(2^(1/2)*cos(pi/4 - 193/5))/10, (88*exp(-387/5))/5 - (127*exp(-1161/10))/10 +  
(2^(1/2)*cos(pi/4 - 387/10))/10, (88*exp(-388/5))/5 - (127*exp(-582/5))/10 +  
(2^(1/2)*cos(pi/4 - 194/5))/10, (88*exp(-389/5))/5 - (127*exp(-1167/10))/10 +  
(2^(1/2)*cos(pi/4 - 389/10))/10, (88*exp(-78))/5 - (127*exp(-117))/10 +  
(2^(1/2)*cos(pi/4 - 39))/10, (88*exp(-391/5))/5 - (127*exp(-1173/10))/10 +  
(2^(1/2)*cos(pi/4 - 391/10))/10, (88*exp(-392/5))/5 - (127*exp(-588/5))/10 +  
(2^(1/2)*cos(pi/4 - 196/5))/10, (88*exp(-393/5))/5 - (127*exp(-1179/10))/10 +  
(2^(1/2)*cos(pi/4 - 393/10))/10, (88*exp(-394/5))/5 - (127*exp(-591/5))/10 +  
(2^(1/2)*cos(pi/4 - 197/5))/10, (88*exp(-79))/5 - (127*exp(-237/2))/10 +  
(2^(1/2)*cos(pi/4 - 79/2))/10, (88*exp(-396/5))/5 - (127*exp(-594/5))/10 +  
(2^(1/2)*cos(pi/4 - 198/5))/10, (88*exp(-397/5))/5 - (127*exp(-1191/10))/10 +  
(2^(1/2)*cos(pi/4 - 397/10))/10, (88*exp(-398/5))/5 - (127*exp(-597/5))/10 +  
(2^(1/2)*cos(pi/4 - 199/5))/10, (88*exp(-399/5))/5 - (127*exp(-1197/10))/10 +  
(2^(1/2)*cos(pi/4 - 399/10))/10, (88*exp(-80))/5 - (127*exp(-120))/10 +  
(2^(1/2)*cos(pi/4 - 40))/10, (88*exp(-401/5))/5 - (127*exp(-1203/10))/10 +  
(2^(1/2)*cos(pi/4 - 401/10))/10, (88*exp(-402/5))/5 - (127*exp(-603/5))/10 +  
(2^(1/2)*cos(pi/4 - 201/5))/10, (88*exp(-403/5))/5 - (127*exp(-1209/10))/10 +  
(2^(1/2)*cos(pi/4 - 403/10))/10, (88*exp(-404/5))/5 - (127*exp(-606/5))/10 +  
(2^(1/2)*cos(pi/4 - 202/5))/10, (88*exp(-81))/5 - (127*exp(-243/2))/10 +  
(2^(1/2)*cos(pi/4 - 81/2))/10, (88*exp(-406/5))/5 - (127*exp(-609/5))/10 +  
(2^(1/2)*cos(pi/4 - 203/5))/10, (88*exp(-407/5))/5 - (127*exp(-1221/10))/10 +  
(2^(1/2)*cos(pi/4 - 407/10))/10, (88*exp(-408/5))/5 - (127*exp(-612/5))/10 +  
(2^(1/2)*cos(pi/4 - 204/5))/10, (88*exp(-409/5))/5 - (127*exp(-1227/10))/10 +  
(2^(1/2)*cos(pi/4 - 409/10))/10, (88*exp(-82))/5 - (127*exp(-123))/10 +  
(2^(1/2)*cos(pi/4 - 41))/10, (88*exp(-411/5))/5 - (127*exp(-1233/10))/10 +  
(2^(1/2)*cos(pi/4 - 411/10))/10, (88*exp(-412/5))/5 - (127*exp(-618/5))/10 +  
(2^(1/2)*cos(pi/4 - 206/5))/10, (88*exp(-413/5))/5 - (127*exp(-1239/10))/10 +  
(2^(1/2)*cos(pi/4 - 413/10))/10, (88*exp(-414/5))/5 - (127*exp(-621/5))/10 +  
(2^(1/2)*cos(pi/4 - 207/5))/10, (88*exp(-83))/5 - (127*exp(-249/2))/10 +
```


For the plot of the relationship between y and t

$$\begin{aligned} & (2^{1/2} \cos(\pi/4 - 83/2))/10, (88 \exp(-416/5))/5 - (127 \exp(-624/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 208/5))/10, (88 \exp(-417/5))/5 - (127 \exp(-1251/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 417/10))/10, (88 \exp(-418/5))/5 - (127 \exp(-627/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 209/5))/10, (88 \exp(-419/5))/5 - (127 \exp(-1257/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 419/10))/10, (88 \exp(-84))/5 - (127 \exp(-126))/10 + \\ & (2^{1/2} \cos(\pi/4 - 42))/10, (88 \exp(-421/5))/5 - (127 \exp(-1263/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 421/10))/10, (88 \exp(-422/5))/5 - (127 \exp(-633/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 211/5))/10, (88 \exp(-423/5))/5 - (127 \exp(-1269/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 423/10))/10, (88 \exp(-424/5))/5 - (127 \exp(-636/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 212/5))/10, (88 \exp(-85))/5 - (127 \exp(-255/2))/10 + \\ & (2^{1/2} \cos(\pi/4 - 85/2))/10, (88 \exp(-426/5))/5 - (127 \exp(-639/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 213/5))/10, (88 \exp(-427/5))/5 - (127 \exp(-1281/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 427/10))/10, (88 \exp(-428/5))/5 - (127 \exp(-642/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 214/5))/10, (88 \exp(-429/5))/5 - (127 \exp(-1287/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 429/10))/10, (88 \exp(-86))/5 - (127 \exp(-129))/10 + \\ & (2^{1/2} \cos(\pi/4 - 43))/10, (88 \exp(-431/5))/5 - (127 \exp(-1293/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 431/10))/10, (88 \exp(-432/5))/5 - (127 \exp(-648/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 216/5))/10, (88 \exp(-433/5))/5 - (127 \exp(-1299/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 433/10))/10, (88 \exp(-434/5))/5 - (127 \exp(-651/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 217/5))/10, (88 \exp(-87))/5 - (127 \exp(-261/2))/10 + \\ & (2^{1/2} \cos(\pi/4 - 87/2))/10, (88 \exp(-436/5))/5 - (127 \exp(-654/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 218/5))/10, (88 \exp(-437/5))/5 - (127 \exp(-1311/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 437/10))/10, (88 \exp(-438/5))/5 - (127 \exp(-657/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 219/5))/10, (88 \exp(-439/5))/5 - (127 \exp(-1317/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 439/10))/10, (88 \exp(-88))/5 - (127 \exp(-132))/10 + \\ & (2^{1/2} \cos(\pi/4 - 44))/10, (88 \exp(-441/5))/5 - (127 \exp(-1323/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 441/10))/10, (88 \exp(-442/5))/5 - (127 \exp(-663/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 221/5))/10, (88 \exp(-443/5))/5 - (127 \exp(-1329/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 443/10))/10, (88 \exp(-444/5))/5 - (127 \exp(-666/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 222/5))/10, (88 \exp(-89))/5 - (127 \exp(-267/2))/10 + \\ & (2^{1/2} \cos(\pi/4 - 89/2))/10, (88 \exp(-446/5))/5 - (127 \exp(-669/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 223/5))/10, (88 \exp(-447/5))/5 - (127 \exp(-1341/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 447/10))/10, (88 \exp(-448/5))/5 - (127 \exp(-672/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 224/5))/10, (88 \exp(-449/5))/5 - (127 \exp(-1347/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 449/10))/10, (88 \exp(-90))/5 - (127 \exp(-135))/10 + \\ & (2^{1/2} \cos(\pi/4 - 45))/10, (88 \exp(-451/5))/5 - (127 \exp(-1353/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 451/10))/10, (88 \exp(-452/5))/5 - (127 \exp(-678/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 226/5))/10, (88 \exp(-453/5))/5 - (127 \exp(-1359/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 453/10))/10, (88 \exp(-454/5))/5 - (127 \exp(-681/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 227/5))/10, (88 \exp(-91))/5 - (127 \exp(-273/2))/10 + \\ & (2^{1/2} \cos(\pi/4 - 91/2))/10, (88 \exp(-456/5))/5 - (127 \exp(-684/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 228/5))/10, (88 \exp(-457/5))/5 - (127 \exp(-1371/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 457/10))/10, (88 \exp(-458/5))/5 - (127 \exp(-687/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 229/5))/10, (88 \exp(-459/5))/5 - (127 \exp(-1377/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 459/10))/10, (88 \exp(-92))/5 - (127 \exp(-138))/10 + \\ & (2^{1/2} \cos(\pi/4 - 46))/10, (88 \exp(-461/5))/5 - (127 \exp(-1383/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 461/10))/10, (88 \exp(-462/5))/5 - (127 \exp(-693/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 231/5))/10, (88 \exp(-463/5))/5 - (127 \exp(-1389/10))/10 + \\ & (2^{1/2} \cos(\pi/4 - 463/10))/10, (88 \exp(-464/5))/5 - (127 \exp(-696/5))/10 + \\ & (2^{1/2} \cos(\pi/4 - 232/5))/10, (88 \exp(-93))/5 - (127 \exp(-279/2))/10 + \\ & (2^{1/2} \cos(\pi/4 - 93/2))/10, (88 \exp(-466/5))/5 - (127 \exp(-699/5))/10 + \end{aligned}$$

For the plot of the relationship between y and t

```
(2^(1/2)*cos(pi/4 - 233/5))/10, (88*exp(-467/5))/5 - (127*exp(-1401/10))/10 +  
(2^(1/2)*cos(pi/4 - 467/10))/10, (88*exp(-468/5))/5 - (127*exp(-702/5))/10 +  
(2^(1/2)*cos(pi/4 - 234/5))/10, (88*exp(-469/5))/5 - (127*exp(-1407/10))/10 +  
(2^(1/2)*cos(pi/4 - 469/10))/10, (88*exp(-94))/5 - (127*exp(-141))/10 +  
(2^(1/2)*cos(pi/4 - 47))/10, (88*exp(-471/5))/5 - (127*exp(-1413/10))/10 +  
(2^(1/2)*cos(pi/4 - 471/10))/10, (88*exp(-472/5))/5 - (127*exp(-708/5))/10 +  
(2^(1/2)*cos(pi/4 - 236/5))/10, (88*exp(-473/5))/5 - (127*exp(-1419/10))/10 +  
(2^(1/2)*cos(pi/4 - 473/10))/10, (88*exp(-474/5))/5 - (127*exp(-711/5))/10 +  
(2^(1/2)*cos(pi/4 - 237/5))/10, (88*exp(-95))/5 - (127*exp(-285/2))/10 +  
(2^(1/2)*cos(pi/4 - 95/2))/10, (88*exp(-476/5))/5 - (127*exp(-714/5))/10 +  
(2^(1/2)*cos(pi/4 - 238/5))/10, (88*exp(-477/5))/5 - (127*exp(-1431/10))/10 +  
(2^(1/2)*cos(pi/4 - 477/10))/10, (88*exp(-478/5))/5 - (127*exp(-717/5))/10 +  
(2^(1/2)*cos(pi/4 - 239/5))/10, (88*exp(-479/5))/5 - (127*exp(-1437/10))/10 +  
(2^(1/2)*cos(pi/4 - 479/10))/10, (88*exp(-96))/5 - (127*exp(-144))/10 +  
(2^(1/2)*cos(pi/4 - 48))/10, (88*exp(-481/5))/5 - (127*exp(-1443/10))/10 +  
(2^(1/2)*cos(pi/4 - 481/10))/10, (88*exp(-482/5))/5 - (127*exp(-723/5))/10 +  
(2^(1/2)*cos(pi/4 - 241/5))/10, (88*exp(-483/5))/5 - (127*exp(-1449/10))/10 +  
(2^(1/2)*cos(pi/4 - 483/10))/10, (88*exp(-484/5))/5 - (127*exp(-726/5))/10 +  
(2^(1/2)*cos(pi/4 - 242/5))/10, (88*exp(-97))/5 - (127*exp(-291/2))/10 +  
(2^(1/2)*cos(pi/4 - 97/2))/10, (88*exp(-486/5))/5 - (127*exp(-729/5))/10 +  
(2^(1/2)*cos(pi/4 - 243/5))/10, (88*exp(-487/5))/5 - (127*exp(-1461/10))/10 +  
(2^(1/2)*cos(pi/4 - 487/10))/10, (88*exp(-488/5))/5 - (127*exp(-732/5))/10 +  
(2^(1/2)*cos(pi/4 - 244/5))/10, (88*exp(-489/5))/5 - (127*exp(-1467/10))/10 +  
(2^(1/2)*cos(pi/4 - 489/10))/10, (88*exp(-98))/5 - (127*exp(-147))/10 +  
(2^(1/2)*cos(pi/4 - 49))/10, (88*exp(-491/5))/5 - (127*exp(-1473/10))/10 +  
(2^(1/2)*cos(pi/4 - 491/10))/10, (88*exp(-492/5))/5 - (127*exp(-738/5))/10 +  
(2^(1/2)*cos(pi/4 - 246/5))/10, (88*exp(-493/5))/5 - (127*exp(-1479/10))/10 +  
(2^(1/2)*cos(pi/4 - 493/10))/10, (88*exp(-494/5))/5 - (127*exp(-741/5))/10 +  
(2^(1/2)*cos(pi/4 - 247/5))/10, (88*exp(-99))/5 - (127*exp(-297/2))/10 +  
(2^(1/2)*cos(pi/4 - 99/2))/10, (88*exp(-496/5))/5 - (127*exp(-744/5))/10 +  
(2^(1/2)*cos(pi/4 - 248/5))/10, (88*exp(-497/5))/5 - (127*exp(-1491/10))/10 +  
(2^(1/2)*cos(pi/4 - 497/10))/10, (88*exp(-498/5))/5 - (127*exp(-747/5))/10 +  
(2^(1/2)*cos(pi/4 - 249/5))/10, (88*exp(-499/5))/5 - (127*exp(-1497/10))/10 +  
(2^(1/2)*cos(pi/4 - 499/10))/10, (88*exp(-100))/5 - (127*exp(-150))/10 +  
(2^(1/2)*cos(pi/4 - 50))/10]
```