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 18/eng021005

① $-2^x \cos(x)$
 Plot (1, y)
 (1, y)

$x_1 - 2x_1 - x_2 = 10$
 $2x_1 - 3x_2 - 4x_1 = 8$
 $x_1 - 4x_2 - 2x_3 = 3$
 $-x_2 - 5x_3 - 7x_4 = -7$

$A = \begin{bmatrix} 1 & -2 & -1 & 3 \\ 2 & 3 & 0 & 1 \\ 1 & 0 & -4 & -2 \\ 0 & -1 & 3 & 1 \end{bmatrix}$

$C = \begin{bmatrix} 10 \\ 8 \\ 3 \\ -7 \end{bmatrix}$

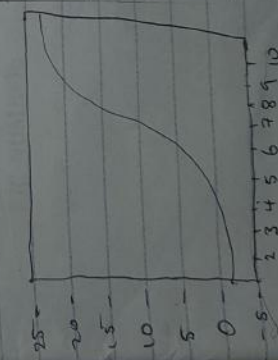
$D = \begin{bmatrix} 0.0267 & 0.2400 \\ 0.1495 & 0.6867 \\ 0.0933 & 0.1600 \\ -0.313 & -0.1063 \end{bmatrix}$

$E = \begin{bmatrix} 0.0400 & 0.0261 \\ 0.2267 & 0.0440 \\ -0.2333 \end{bmatrix}$

$E = \begin{bmatrix} -1.0000 \\ 2.0000 \\ -5.0000 \\ 4.0000 \end{bmatrix}$

1.9000 - 2.8021
 2.0000 - 3.0411
 2.1000 - 3.2897
 2.2000 - 3.5355
 2.3000 - 3.7851
 2.4000 - 4.0367
 2.5000 - 4.2903
 2.6000 - 4.5458
 2.7000 - 4.8030
 2.8000 - 5.0618
 2.9000 - 5.3223
 3.0000 - 5.5840
 3.1000 - 5.8470
 3.2000 - 6.1116

The model $E_{\text{max}} = \sin(0.25t)$
 $t = 2, \dots, 10$
 $\Delta t = 0.1$
 $t = 0.01, 10$
 $y = \sin(0.25(10)) + 2^t + 2^t \cos(t)$



5.3000 - 6.5270
 3.4000 - 6.6433
 3.5000 - 6.7106
 3.6000 - 7.1387
 3.7000 - 7.4924
 3.8000 - 7.9167
 3.9000 - 8.4266
 4.0000 - 8.9868
 5.0000 - 10.7692
 5.1000 - 11.2324
 5.2000 - 11.5012
 5.3000 - 11.7012
 5.4000 - 12.0365
 5.5000 - 12.3031
 5.6000 - 12.5684
 5.7000 - 12.8215
 5.8000 - 13.0923
 5.9000 - 13.3600
 6.0000 - 13.6216
 6.1000 - 13.8820
 6.2000 - 14.1412
 6.3000 - 14.3970
 6.4000 - 14.6555
 6.5000 - 14.9105
 6.6000 - 15.1610
 6.7000 - 15.4160
 6.8000 - 15.6667
 6.9000 - 16.4074
 7.0000 - 16.6501
 7.1000 - 16.8925
 7.2000 - 17.1327
 7.3000 - 17.3700

7.6000 ~ 17.6058
e 7.7000 ~ 17.8356
o 7.8000 ~ 18.0713
m 7.9000 ~ 18.3009
8.0000 ~ 18.5284
8.1000 ~ 18.7538
8.2000 ~ 18.9720
8.3000 ~ 19.1847
8.4000 ~ 19.4166
8.5000 ~ 19.6331
8.6000 ~ 19.8472
8.7000 ~ 20.0541
8.8000 ~ 20.2046
8.9000 ~ 20.3808
9.0000 ~ 20.5830