

QUESTION 4d:

t := 0,0.1.. 10

t =

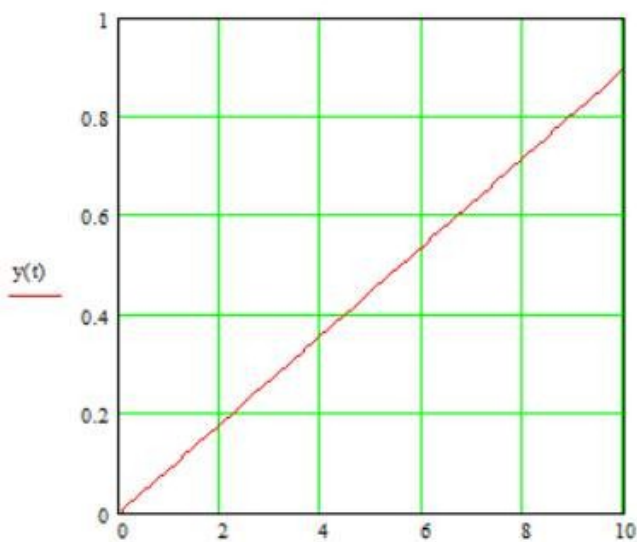
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5

separately, i

$$y(t) := 2 \sin\left(\frac{\pi}{70}\right) t$$

y(t) =

0
$8.973 \cdot 10^{-3}$
0.018
0.027
0.036
0.045
0.054
0.063
0.072
0.081
0.09
0.099
0.108
0.117
0.126
0.135

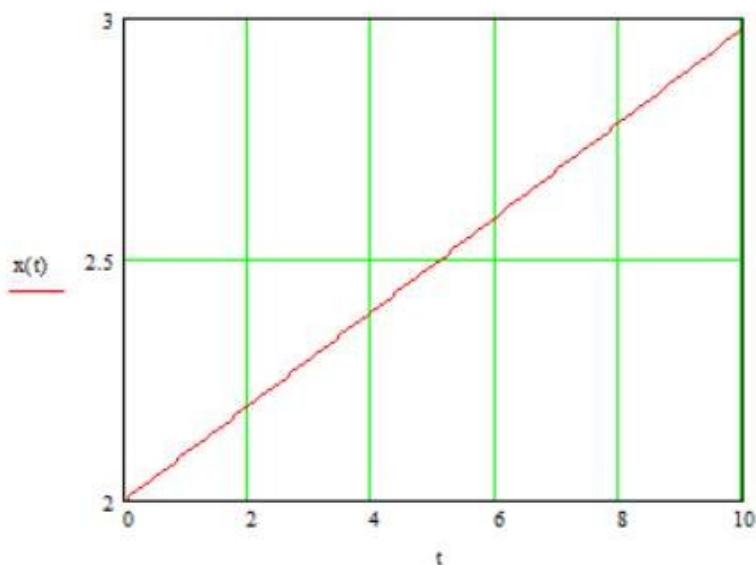


+

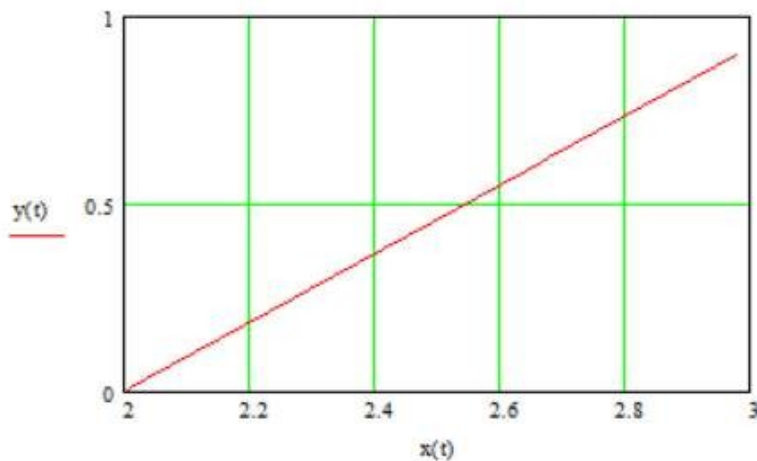
$$x(t) := 2 + 2t - 2 \cos\left(\frac{\pi}{10}\right) t$$

x(t) =

2
2.01
2.02
2.029
2.039
2.049
2.059
2.069
2.078
2.088
2.098
2.108
2.117
2.127
2.137
2.147



together .



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QUESTION 4bi:

$$F := \begin{pmatrix} 1 & -2 & -1 & 3 \\ 2 & 3 & 0 & 1 \\ 1 & 0 & -4 & -2 \\ 0 & -1 & 3 & 1 \end{pmatrix}$$

$$G = \begin{pmatrix} T1 \\ T2 \\ T3 \\ T4 \end{pmatrix}$$

$$H := \begin{pmatrix} 10 \\ 8 \\ 3 \\ -7 \end{pmatrix}$$

$$G := F^{-1}H$$

$$G = \begin{pmatrix} -1 \\ 2 \\ -3 \\ 4 \end{pmatrix}$$