

$$D \begin{bmatrix} x_1 - 2x_2 - x_3 + 3x_4 = 10 \\ 2x_1 + 3x_2 + x_4 = 7 \\ x_1 - 4x_3 - 2x_4 = 5 \\ -x_1 - 4x_2 - 2x_4 = 3 \\ -x_2 + 5x_3 + 2x_4 = -1 \end{bmatrix}$$

using MATLAB

$$A = \begin{pmatrix} 1 & -2 & -1 & 3 \\ 2 & 3 & 0 & 1 \\ 1 & 0 & -4 & -2 \\ -1 & -4 & 0 & -2 \\ 0 & -1 & 5 & 2 \end{pmatrix} \quad C = \begin{pmatrix} 10 \\ 7 \\ 5 \\ 3 \\ -1 \end{pmatrix}$$

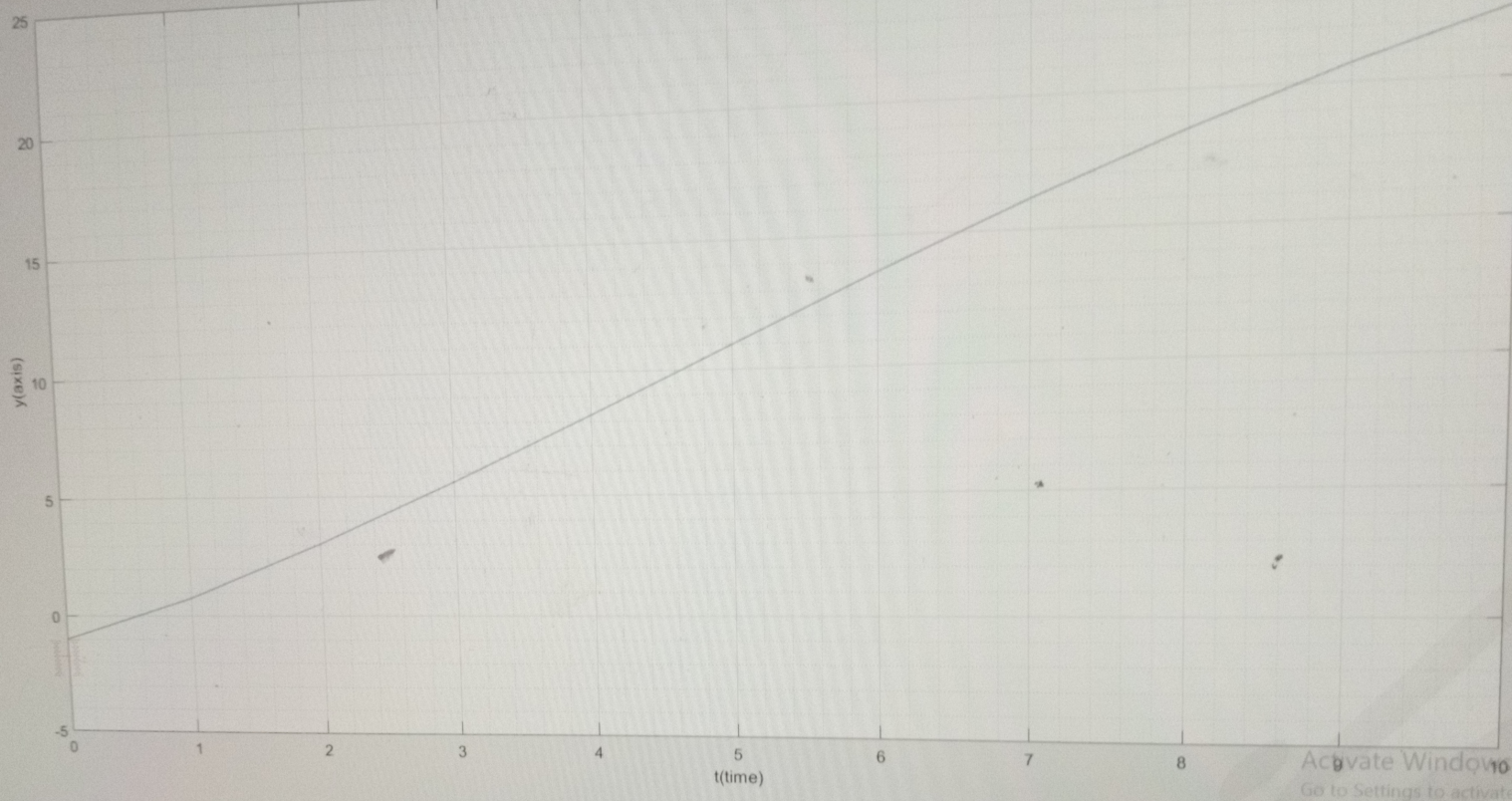
$$x = A^{-1} \cdot C$$

$$A^{-1} = \begin{pmatrix} 0.027 & 0.24 & 0.493 & 0.667 \\ -0.093 & 0.16 & -0.227 & -0.533 \\ -0.107 & 0.04 & 0.027 & 0.333 \\ 0.227 & 0.04 & -0.304 & -0.333 \end{pmatrix}$$

$$x = A^{-1} \cdot C$$

$$x = \begin{pmatrix} -1 \\ 2 \\ -3 \\ -4 \end{pmatrix} = \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{pmatrix}$$

t	y
9.0	20.6307
9.1	20.5832
9.2	21.0833
9.3	21.2810
9.4	21.4764
9.5	21.6694
9.6	21.8600
9.7	22.0482



Activate Windows
Go to Settings to activate

