



MATLAB R2018a

Editor: C:\Program Files\MATLAB\R2018a\bin\win64\muhammad2.m

```

1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - pm 1
6 - q= 2
7 - r= 3
8 - s= 4
9 - t= 5
10 - clear r
11 - clear t
12
13
14

```

Current Folder Command Window Workspace

Mathcad Professional - [muha4.mcd]

QUESTION 4D

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

$$x(t) := 2 + (20 - 2 \cos\left(t - \frac{\pi}{10}\right))$$

$$t := 0..10$$

$y(t) =$	$x(t) =$
0	2.098
-0.09	4.382
0.179	6.824
0.268	9.382
0.357	12
0.445	14.618
0.532	17.176
0.618	19.618
0.703	21.902
0.786	24
0.868	

QUESTION 4B II

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

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

$$c = a^{-1}$$

$$c = \begin{pmatrix} 0.027 & 0.24 & 0.493 & 0.667 \\ -0.093 & 0.16 & -0.227 & -0.333 \\ -0.107 & 0.04 & 0.027 & 0.333 \\ 0.227 & 0.04 & -0.307 & -0.333 \end{pmatrix}$$

$$d = c \cdot b$$

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

$$k = d + 273$$

$$k = \begin{pmatrix} 272 \\ 275 \\ 270 \\ 277 \end{pmatrix}$$