





domain Documents MATLAB

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Editor - C:\Users\domain\Documents\MATLAB\test4b.m
+9 REVISION.m x hold_on_methos.m x revisionnnn.m x classwork1.m x eigenvalues1.m x Test4c.m x test4a
1 - commandwindow
2 - clear
3 - clc
4 - A=[1 -2 -1 3;2 3 0 1;1 0 -4 -2;0 -1 3 1]
5 - B=[10;8;3;-7]
6 - C=inv(A)*B
7 - Melvin=C+273
```

Command Window

```
Melvin =
    273
    273
    273
    273
```

0981-1000  
79.2771

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

$$y(t) = \sin(0.25 \cdot t) + (2 \cdot t) + e^{-0.85 \cdot t} - 2 \cdot \cos\left[\left(\frac{\pi}{10}\right) \cdot t\right]$$

t = 0, 0.1, 10

$$B = A^{-1}$$

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

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

$$D = B \cdot C$$

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

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

y(t) =

-1
-0.856
-0.702
-0.541
-0.373
-0.197
-0.015
0.174
0.369
0.568
0.773
0.982
1.197
1.415
1.637



