

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

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

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

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

$$D := B \cdot C$$

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

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

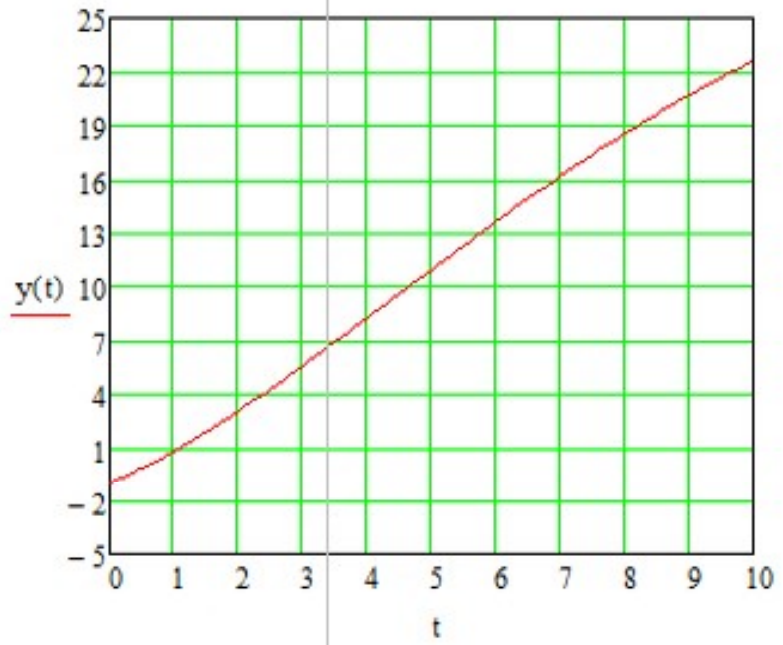
$$t := 0, 0.1.. 10$$

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
0.368
0.568
0.773
0.982
1.197
1.415
1.637
...



APPS EDITOR PUBLISH VIEW

Insert  $fx$   $f_i$  Comment  $\%$   $\%$   $\%$  Breakpoints Run Run and Advance Advance Run and Time

NAVIGATE EDIT BREAKPOINTS RUN

rs > domain > Documents > MATLAB

```

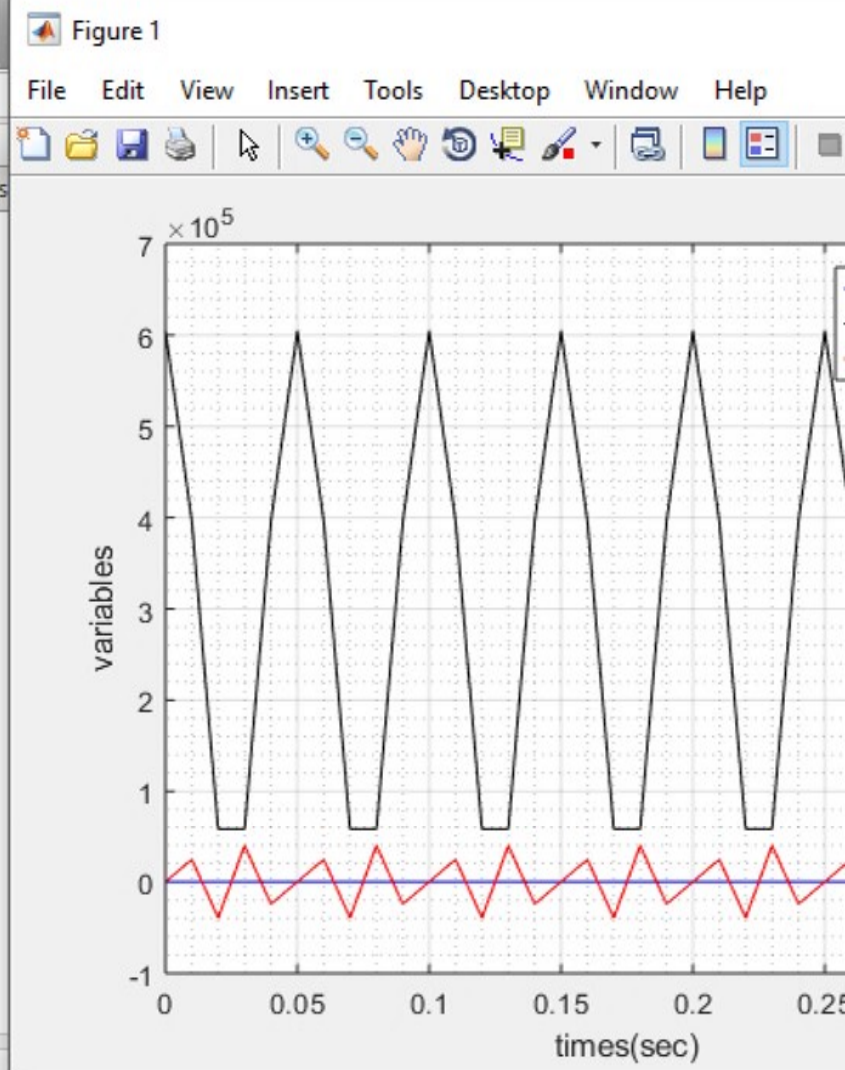
Editor - C:\Users\domain\Documents\MATLAB\Test4c.m
+9 REVISION.m x hold_on_methos.m x revisionnnn.m x class
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - syms t
6 - C=100
7 - V=110*cos(-120*pi*t)
8 - Ip=diff(V)
9 - P=0.5*C*(V.^2)
10 - t=[0:0.01:0.35]
11 - Vn=subs(V)
12 - Ipn=subs(Ip)
13 - Pn=subs(P)
14 - plot(t,Vn,'blue',t,Pn,'black',t,Ipn,'red')
15 - grid on
16 - grid minor
17 - legend('Voltage (V)', 'Power (W)', 'Current (A)')
18 - xlabel('times(sec)')
19 - ylabel('variables')

```

Command Window

[ 605000, 605000\*(5^(1/2)/4 + 1/4)^2, 605000\*(5^(1/2)/4 - 1/4)^2, 605000\*(5^(1/2)/4 - 1/4)^2, 605000\*

$fx$  >>  
<



APPS EDITOR PUBLISH VIEW

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NAVIGATE EDIT BREAKPOINTS RUN

rs > domin > Documents > MATLAB

Editor - C:\Users\domin\Documents\MATLAB\test4a.m

REVISION.m x hold\_on\_methos.m x revisionnnn.m x classwork1.m x eigenvalues1.m x TITANIAHARD.m x Test4c.m

```
1 - commandwindow
2 - clear
3 - clc
4 - P=1
5 - Q=2
6 - R=3
7 - S=4
8 - T=5
```

Command Window

```
5
>> clear R T
fx >> clc
```





APPS EDITOR PUBLISH VIEW

Insert  $fx$

Comment  $\%$   $\%$   $\%$

Indent

Breakpoints

Run

Run and Advance

Run Section

Advance

Run and Time

NAVIGATE EDIT BREAKPOINTS RUN

rs > domin > Documents > MATLAB

Editor - C:\Users\domin\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.m x tes

```
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 =
    272
    275
    270
    277
```

$fx$  >>

script