Symbolics Window Help

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Arial 10

Go

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

$t := 0, 0.1 .. 10$

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

$B := A^{-1}$

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

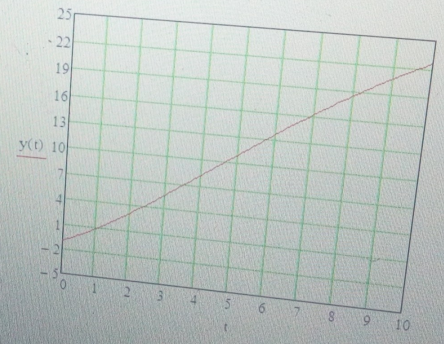
$$C := \begin{pmatrix} 10 \\ 8 \\ 3 \\ -7 \end{pmatrix}$$

$D := B \cdot C$

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

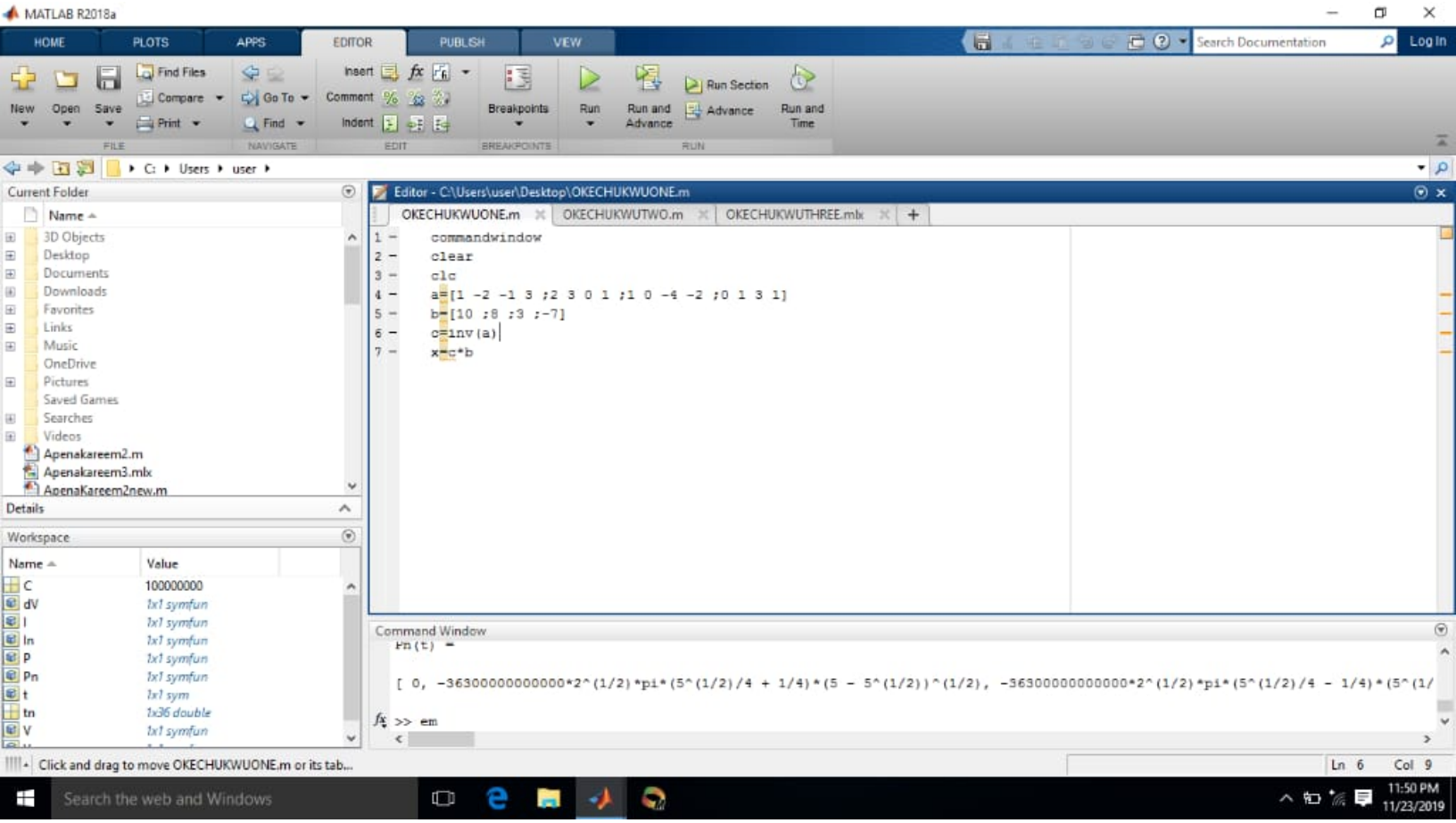
t =
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
⋮

y(t) =
-1
-0.856
-0.702
-0.541
-0.373
-0.197
-0.015
0.174
0.368
0.568
0.773
0.982
1.197
1.415
1.637
⋮



Graph

Press F1 for help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Details
Workspace
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C
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t
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1x36 double
V
1x1 symfun
Editor - C:\Users\user\Desktop\OKECHUKWUONE.m
OKECHUKWUONE.m
OKECHUKWUTWO.m
OKECHUKWUTHREE.mlx
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)
7 - x=c*b
Command Window
Pn(t) =
[0, -36300000000000*2^(1/2)*pi*(5^(1/2)/4 + 1/4)*(5 - 5^(1/2))^(1/2), -36300000000000*2^(1/2)*pi*(5^(1/2)/4 - 1/4)*(5^(1/
>> em
Click and drag to move OKECHUKWUONE.m or its tab...
Ln 6
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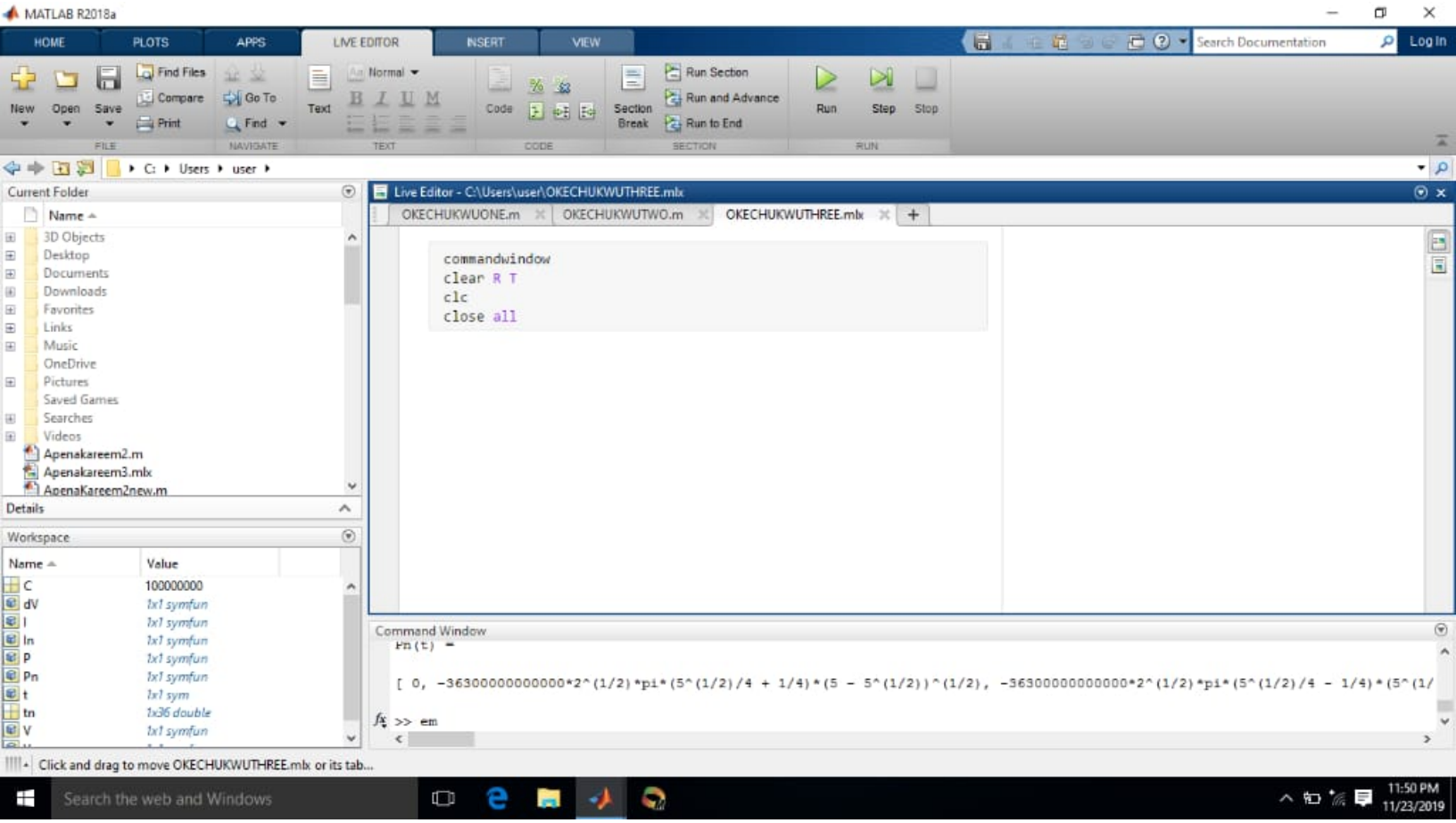
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Live Editor - C:\Users\user\OKECHUKWUTHREE.mlx
OKECHUKWUONE.m
OKECHUKWUTWO.m
OKECHUKWUTHREE.mlx
commandwindow
clear R T
clc
close all
Command Window
Pn(t) =
[0, -36300000000000*2^(1/2)*pi*(5^(1/2)/4 + 1/4)*(5 - 5^(1/2))^(1/2), -36300000000000*2^(1/2)*pi*(5^(1/2)/4 - 1/4)*(5^(1/
>> em
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- Searches
- Videos
- Apenakareem2.m
- Apenakareem3.mlx
- ApenaKareem2new.m

Details

Workspace

Name	Value
C	100000000
dV	1x1 symfun
I	1x1 symfun
In	1x1 symfun
P	1x1 symfun
Pn	1x1 symfun
t	1x1 sym
tn	1x36 double
V	1x1 symfun

Editor - C:\Users\user\OKECHUKWUTWO.m

OKECHUKWUONE.m | OKECHUKWUTWO.m | OKECHUKWUTHREE.mlx

```
1 -  commandwindow
2 -  clear
3 -  clc
4 -  close all
5 -  syms t
6 -  V(t)=110*cos(120*pi*t)
7 -  C=100.*(10.^6)
8 -  dV=diff(V)
9 -  I=C*dV
10 -  P=V(t) *I
11 -  tn=[0:0.01:0.35]
12 -  Vn=subs(V,tn)
13 -  In=subs(I,tn)
14 -  Pn=subs(P,tn)
15 -  plot(tn,Vn,tn,In,tn,Pn)
16 -  xlabel('Time(secs) ')
17 -  ylabel('Variable')
18 -  grid on
19 -  grid minor
20 -  legend('Voltage(V)' , 'Current(A)' , 'Power(W)')
```

Command Window

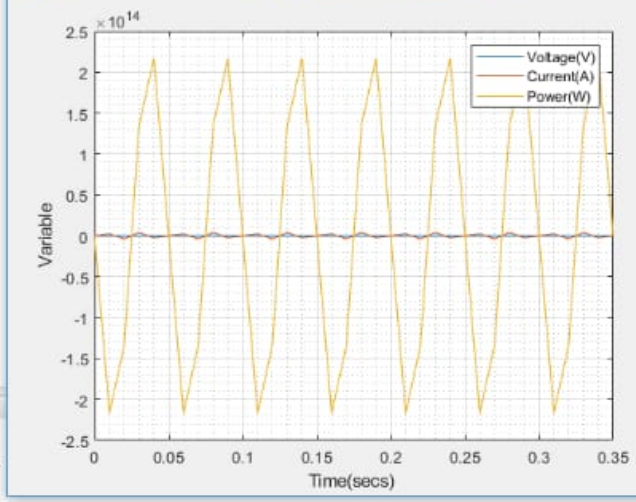
```
Pn(t) =

[ 0, -36300000000000*2^(1/2)*pi*(5^(1/2)/4 + 1/4)*(5 -

fx >> em
```

Figure 1

File Edit View Insert Tools Desktop Window Help



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