

Click and drag to move wisdom234.m or its tab.

Current Folder: C:\Program Files\MATLAB\R2018a\bin

- arch
- m3registry
- registry
- unl
- wins2
- wins3
- wins4
- assignment.m
- deploymenttool.bat
- initnl.m
- ldata.xml
- ldata.xsd
- ldata_utf8.xml
- matlab.exe
- mbuild.bat
- mcc.bat
- mex.bat
- mex.pl
- move.bat
- moveout.bat
- moveout.plm

Workspace

Name	Value
c	100
i	1x1 sym
in	1x36 sym
p	1x1 symfun
pn	1x1 symfun
t	1x1 sym
vn	1x36 double
v	1x1 symfun
vp	1x1 sym

Editor - C:\Program Files\MATLAB\R2018a\bin\wisdom234.m

```
1 wisdom234.m
2 commandWindow
3 clear
4 tic
5 a = [1 -2 -1 3 ; 2 3 0 1 ; 1 b -4 -2 ; 0 -1 3 1]
6 c = [10 ; 8 ; 3 ; -7]
7 I = inv(a)
8 b = c * I
9
```

Command Window

```
pn(c) =
( 0, -36300000*2^(1/2)*pi*(5^(1/2)/4 + 1/4)*(5 - 5^(1/2))^(1/2), -36300000*2^(1/2)*pi*(5^(1/2)/4 - 1/4)*(5^(1/2) + 5)^(1/2),
Warning: MATLAB has enabled some advanced graphics rendering features by switching to software OpenGL. For more information, click here.
```

HOME PLOTS APPS EDITOR PUBLISH VIEW

Current Folder: C:\Program Files\MATLAB\R2018a\bin

- arch
- m3iregistry
- registry
- util
- wins32
- wins64
- assignment.m
- deploytool.bat
- intran.m
- icdata.xml
- icdata.xsd
- icdata_utf8.xml
- matlab.exe
- mbuild.bat
- mcc.bat
- mex.bat
- mex.pl
- mexext.bat
- mexsetup.pm
- mail

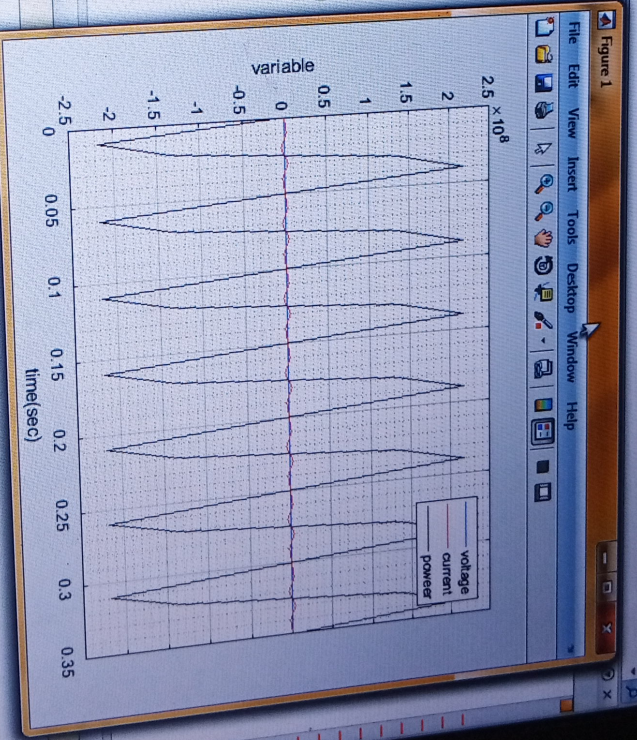
Value: 100

- 1x1 sym
- 1x36 sym
- 1x1 symfun
- 1x1 sym
- 1x36 double
- 1x1 symfun
- 1x1 symfun
- 1x1 sym

```

1  Editor - C:\Program Files\MATLAB\R2018a\bin\wisdom3456.m
2  wisdom123.m  wisdom2344.m  wisdom3456.m
3  Command Window
4  c1c
5  close all
6  syms t
7  v(t) = 110*cos(120*pi*t)
8  C = 100
9  vP = diff(v(t))
10 p = v*C
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, 'b-', tn, in, 'r-', tn, pn, 'k-')
16 xlabel('time (sec)')
17 ylabel('variable')
18 grid on
19 legend('voltage', 'current', 'power')
20

```



Command Window

New to MATLAB? See resources for Getting Started.

pn(t) =

$$[0, -36300000*2^{(1/2)}*pi*(5^{(1/2)}/4 + 1/4)*(5 - 5^{(1/2)})^{(1/2)}, -36300000*2^{(1/2)}*pi*(5^{(1/2)}/4 - 1/4)*(5^{(1/2)} + 5)^{(1/2)},$$

Warning: MATLAB has disabled some advanced graphics rendering features by switching to software OpenGL. For more information, click here.

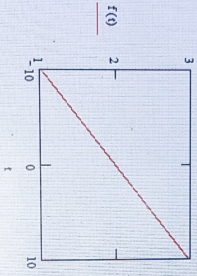
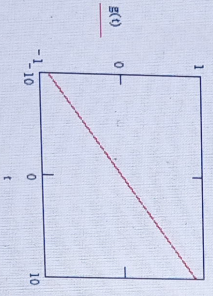
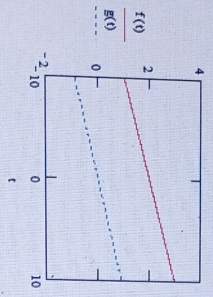
>>

Ln 5 Col 7

$$f(t) = 2 + 2t - 2 \cdot \cos\left(\frac{\pi}{10}\right) t$$

$$g(t) = 2 \cdot \sin\left(\frac{\pi}{70}\right) t$$

$t \leq 0 \leq 10$



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

$$k = \begin{pmatrix} 11 \\ 12 \\ 13 \\ 14 \end{pmatrix} \quad c = \begin{pmatrix} 273 \\ 273 \\ 273 \\ 273 \end{pmatrix}$$

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

$$e = a^{-1} = \begin{pmatrix} 0.027 & 0.24 & 0.493 & 0.667 \\ -0.093 & 0.16 & -0.227 & -0.333 \\ -0.107 & 0.04 & 0.027 & 0.333 \\ 0.227 & 0.04 & -0.307 & -0.333 \end{pmatrix}$$

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

$$f = b + c$$

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

Calculator

$n!$ i $m \cdot a$ x_n $|x|$
 \ln e^x x^y x^2 x^3 \sqrt{x}
 \log π $()$ \times^2 $\sqrt[3]{x}$
 \tan 7 8 9 $/$
 \cos 4 5 6 \times
 \sin 1 2 3 $+$
 $=$ $.$ 0 $-$

Math

$x = \frac{1}{2}$
 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$
 $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$

$<$ $>$
 \leq \geq
 $<=$ $>=$

Matrix

$\begin{pmatrix} x_1 & x_2 & x_3 \\ x_4 & x_5 & x_6 \end{pmatrix}$
 $\begin{pmatrix} x_1 & x_2 \\ x_3 & x_4 \end{pmatrix}$
 $\begin{pmatrix} x_1 & x_2 & x_3 & x_4 \\ x_5 & x_6 & x_7 & x_8 \end{pmatrix}$

Graph

\oplus \ominus \otimes \otimes
 \otimes \otimes \otimes