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Details

Select a file to view details

```
Editor - C:\Users\UKAY\Documents\MATLAB\ukponotestthree.m  
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 - ukay=c+273
```

Workspace

Name	Value
a	4x4 double [10;8;3;-7]
b	[-1.0000;2.0000;-...
c	[272;275;270;277]
ukay	[272;275;270;277]

Command Window

```
ukay =  
  
    272  
    275  
    270  
    277  
fx >>
```

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

Editor - C:\Users\UKAY\Documents\MATLAB\ukponotesttwo.m

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

Workspace

Name	Value
P	1
Q	2
S	4

Command Window

```
4

T =

5

>> clear R T
>> clc
```

Editor - C:\Users\UKAY\Documents\MATLAB\ukpono\_test.m  
 mathlabclass.m x ukponotwo.m x ebitufour.m x ukpono\_test.m

```

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('time(sec)')
19- ylabel('variables')
  
```

Command Window

```

[ 0, 3300*2^(1/2)*pi*(5 - 5^(1/2))^(1/2), -3300*pi*2^(1/2)*(5^(1/2) + 5)^(1/2), 3300*pi*2^(1/2)*(5^(1/2)
pn =
[ 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*(5
  
```

Figure 1

variables  
 ×10<sup>5</sup>  
 voltage(V)  
 power(W)  
 current(A)  
 time(sec)

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

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

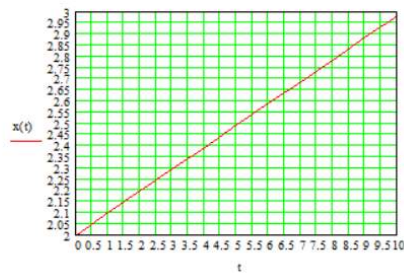
$$B = \begin{pmatrix} 0.027 & 0.24 & 0.493 & 0.667 \\ -0.093 & 0.16 & -0.227 & -0.333 \\ -0.107 & 0.04 & 0.027 & 0.333 \\ 0.227 & 0.04 & -0.307 & -0.333 \end{pmatrix}$$

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

$$D := B \cdot C$$

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

$$x(t) := 2 + 2 \cdot t - 2 \cdot \cos\left(\frac{\pi}{10}\right) t \quad y(t) := 2 \cdot \sin\left(\frac{\pi}{70}\right) \cdot t \quad t := 0, 1..10$$



t =	x(t) =	y(t) =
0	2	0
1	2.098	0.09
2	2.196	0.179
3	2.294	0.269
4	2.392	0.359
5	2.489	0.449
6	2.587	0.538
7	2.685	0.628
8	2.783	0.718
9	2.881	0.808
10	2.979	0.897

