

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

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

$C := \begin{pmatrix} T1 \\ T2 \\ T3 \\ T4 \end{pmatrix}$

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

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

$K := 273$

$S := C + K \quad S = \begin{pmatrix} 272 \\ 275 \\ 270 \\ 277 \end{pmatrix}$

4d $t := 0, 0.1..10$

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
1.5

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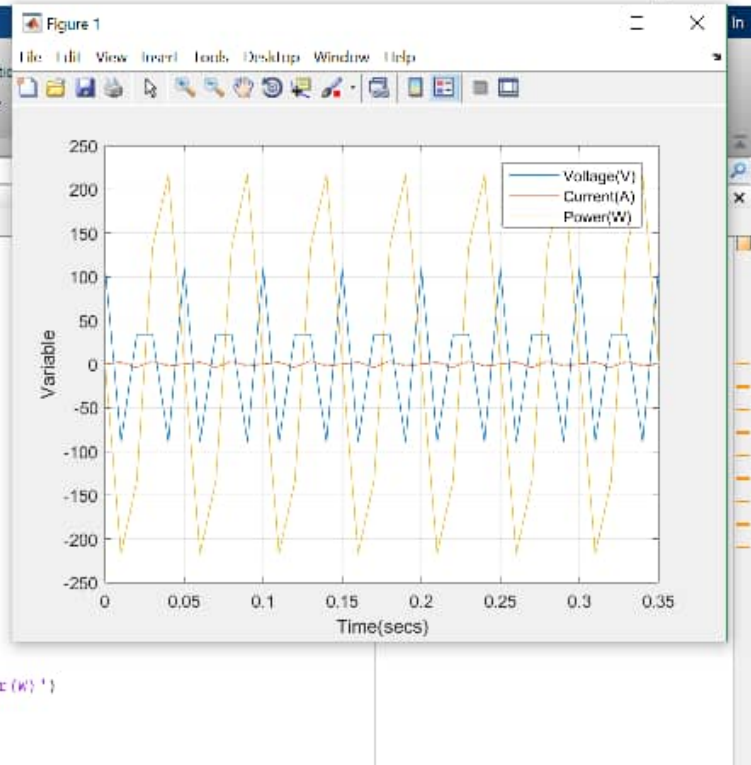
```

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 I=V(t)+I
11 Ln=[0:0.01:0.35]
12 Vn=subs(V, Ln)
13 In=subs(I, Ln)
14 Pn=subs(I, Ln)
15 plot(Ln, Vn, Ln, In, Ln, Pn)
16 xlabel('Time (secs)')
17 ylabel('Variable')
18 grid on
19 grid minor
20 legend('Voltage (V)', 'Current (A)', 'Power (W)')

```

Workspace:

Name	Value
C	1.0000e 04
dv	1x1 symfun
I	1x1 symfun
In	1x1 symfun
P	1x1 symfun
Pn	1x1 symfun
t	1x1 sym
V	1x1 double
Vn	1x1 symfun



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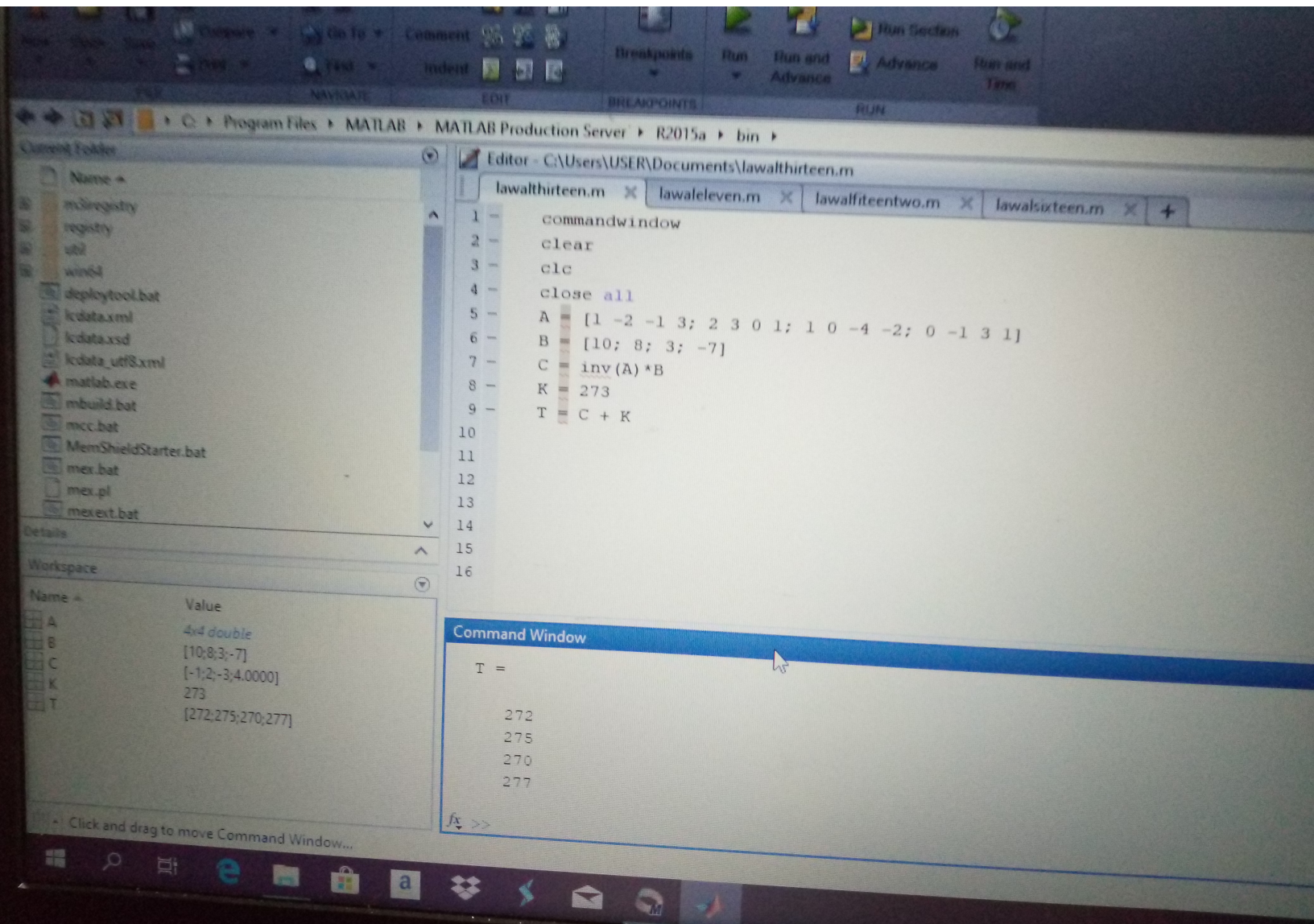
```
1 - comment: window
2 - clear A T
3 - c = c;
4 - close all
```

Workspace

Name	Value
A	4x4 double
T	[1000 1:-7]
C	4x4 double
K	[2 7 2 15 2 10...

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