

The image displays the MATLAB R2018a interface. The top menu bar includes HOME, PLOTS, APPS, EDITOR, PUBLISH, and VIEW. The Command Window shows the results of a MATLAB script, and the Workspace shows the variables defined in the script.

Command Window Output:

```
C =  
    0.0267    0.2400    0.4933    0.6667  
   -0.0933    0.1600   -0.2267   -0.3333  
   -0.1067    0.0400    0.0267    0.3333  
    0.2267    0.0400   -0.3067   -0.3333  
  
B =  
  
    10  
     8  
     3  
     7  
  
T =  
  
    8.3333  
   -2.6667  
    1.6667  
   -0.6667  
  
K =  
  
    281.3333  
    270.3333  
    274.6667  
    272.3333
```

Workspace:

Name	Value
A	4x4 double
B	[10; 8; 3; 7]
C	4x4 double
K	[281.3333; 270.3333; 274.6667; 272.3333]
T	8.3333

Editor - C:\Users\HP\Documents\MATLAB\joshua001.m

```
1 - commandwindow  
2 - clear  
3 - clc  
4 - close all  
5 - A = [1 -2 -1 3; 2 3 0 1; 1 0 -4 -2; 0 -1 3 1]  
6 - C = inv(A)  
7 - B = [ 10; 8; 3; 7 ; ]  
8 - T = C*B  
9 - K = 273+ T  
10
```

The image displays the MATLAB R2018a software interface. The top menu bar includes HOME, PLOTS, APPS, EDITOR, PUBLISH, and VIEW. The current folder is C:\Windows\System32. The Command Window shows the following output:

```
0.3000 0.3100 0.3200 0.3300 0.3400  
Column 36  
0.3500  
  
Vn =  
[ 110, - (55*5^(1/2))/2 - 55/2, (55*5^(1/2))/2 - 55/2, (55  
  
Pn =  
[ 605000, 605000*(5^(1/2))/4 + 1/4)^2, 605000*(5^(1/2))/4 -  
  
In =  
[ 5500, - 1375*5^(1/2) - 1375, 1375*5^(1/2) - 1375, 1375*5  
  
xlabel =  
'time(sec)'  
  
ylabel =  
'variable'
```

The Editor window shows the following MATLAB code:

```
1 - commandwindow  
2 - clear  
3 - clc  
4 - close all  
5 - syms t  
6 - V=110*cos(120*pi*t)  
7 - C=100  
8 - P= 0.5*C*V^2  
9 - I=P/V  
10 - t= [0:0.01:0.35]  
11 - Vn= subs(V,t)  
12 - Pn= subs(P,t)  
13 - In= subs(I,t)  
14 - plot(t,Vn,t,Pn,t,In)  
15 - xlabel('time(sec)')  
16 - ylabel('variable')  
17 - grid on  
18 - grid minor  
19 - legend('voltage(V)', 'current(I)', 'power(W)')  
20
```

The Workspace window shows the following variables:

Name	Value
C	100
I	1x1 sy
In	1x36 s
P	1x1 sy
Pn	1x36 s
t	1x36 d
V	1x1 sy
Vn	1x36 s
xlabel	'time(
ylabel	'variati

Current Folder

- Untitled.m
- prine11.m
- prince_grap.m
- prince_equation.m
- prince_eigenvalues1.m
- prince10.m
- matlab.mat
- joshua1.m
- graph.m
- fake_integral.m
- failure.m
- emeka12.m
- differentiation_integra...

Details

Workspace

Name	Value
P	20
Q	14
S	30

Command Window

```
f >>
```

Editor - C:\Users\HP\Documents\MATLAB\MATLAB\joshua1.m

```
joshua001.m x joshua2813.m x Untitled.mlx x joshua1.m x +
```

```
1 - P=20
2 - Q=14
3 - R=56
4 - S=30
5 - T=45
6 - clear R
7 - clear T
8 - commandwindow
9 - clc
10
```

Figure 1

File Edit View Insert Tools Desktop Window Help

