FASHINA OLUWADAMILOLA T
16/ENG04/019
ELECTRICAL AND ELECTRONICS

1)commandwindow

```
clear
clc
A=[0,10,4,-2;-3,-17,1,2;1,1,1,0;8,-34,16,-10]
B=[-4;2;6;4]
x=A^-1*B
```

ANS

```
A =

     0    10     4    -2
    -3   -17     1     2
     1     1     1     0
     8   -34    16   -10


B =

    -4.0
     2.0
     6.0
     4.0
```

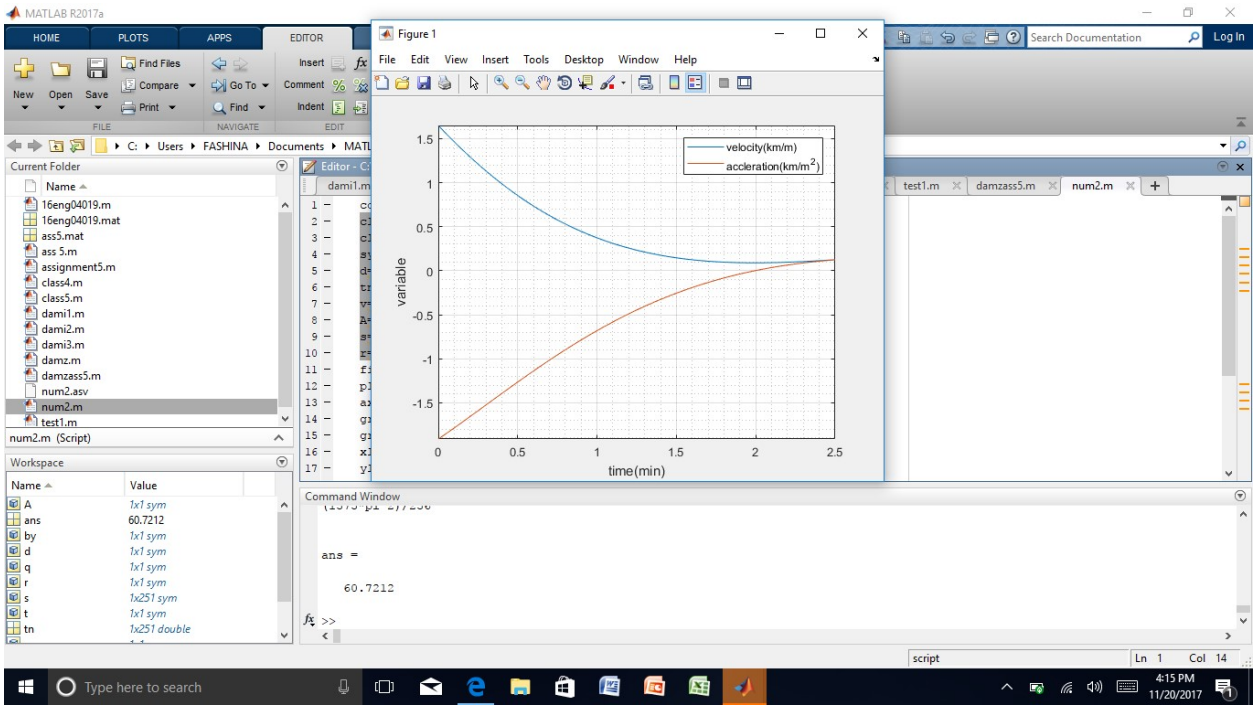
II)commandwindow

```
clear
clc
syms t
d=1.5*exp(-0.75*t)*sin(0.85*t)+0.375*t
tn=[0:0.01:2.5]
v=diff(d)
A=diff(v)
s=subs(v,tn)
r=subs(A,tn)
figure(1)
plot(tn,s,tn,r)
axis tight
grid on
grid minor
xlabel('time(min)')
ylabel('variable')
legend('velocity(km/m)','accleration(km/m^2)')
```

III)

```
syms x
y=5*(sin(5*x))^5
by=y^2
r=int(by,0,pi)
q=r*pi
double(q)
```

```
>>
```


MATLAB R2017a
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Current Folder
Name
16eng04019.m
16eng04019.mat
ass5.mat
ass 5.m
assignment5.m
class4.m
class5.m
dami1.m
dami2.m
dami3.m
damz.m
damzass5.m
num2.asv
num2.m
test1.m
num2.m (Script)
Workspace
Name
Value
A 1x1 sym
ans 60.7212
by 1x1 sym
d 1x1 sym
q 1x1 sym
r 1x1 sym
s 1x251 sym
t 1x1 sym
tn 1x251 double
Editor - C
dami1.m
test1.m
damzass5.m
num2.m
Figure 1
File Edit View Insert Tools Desktop Window Help
velocity(km/m)
accleration(km/m^2)
variable
time(min)
Command Window
ans =
60.7212
>>
script
Ln 1 Col 14
Type here to search
4:15 PM
11/20/2017