ment % ⅗ ⅗⅃
dent �

Breakpoints   Run   Run and   Advance   Run and
                             Advance   Time
EDIT   BREAKPOINTS   RUN

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uments ▸ MATLAB

Editor - C:\Users\G27086705\Documents\MATLAB\exp4.m

experiment1.m ✕   experiment2.m ✕   exp3matrices.m ✕   exp4.m ✕   +

```
1 —    t=0:pi/100:2*pi;
2 —    y=sin(t)
3 —    plot(t,y)
4 —    xlabel('t')
5 —    ylabel('sin(t)')
6 —    title('The plot of t vs sin(t)')
7 —    y2=sin(t-0.25);
8 —    y3=sin(t+0.25);
9 —    hold on;
10 —   plot(t,y,t,y2,t,y3)
11 —   legend('sin(t)','sin(t-0.25)','sin(t+0.25',1)
12
```

The plot of t vs sin(t)

Command Window

Documents ▸ MATLAB

Editor - C:\Users\G27086705\Documents\MATLAB\exp4.m

experiment1.m ✕   experiment2.m ✕   exp3matrices.m ✕   exp4.m ✕   +

```
1 —    t=0:pi/100:2*pi;
2 —    y=sin(t)
3 —    plot(t,y)
4 —    xlabel('t')
5 —    ylabel('sin(t)')
6 —    title('The plot of t vs sin(t)')
7
```

Command Window

Column 201

   -0.0000

Figure 1

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The plot of t vs sin(t)

experiment1.m ✕ | experiment2.m ✕ | exp3matrices.m ✕ | +

```
1   A= [1 1 -1; 1 -2 3; 2 3 2];
2   B= [4; -6; 7];
3   x=inv(A)*B
```

Command Window

```
        1.0000


  x =

      0.9375
      2.2500
     -0.8125

fx >>
```

```matlab
1 -    z=polyval([1 3 -100 54.286 1 3 6],6)
2 -    roots([1 3 -100 54.286 1 3 6])
3
```

Command Window

```
z =

  -4.7830e+04


ans =

 -11.8359 + 0.0000i
   8.2813 + 0.0000i
   0.7639 + 0.0000i
  -0.3783 + 0.0000i
   0.0845 + 0.4524i
   0.0845 - 0.4524i
```
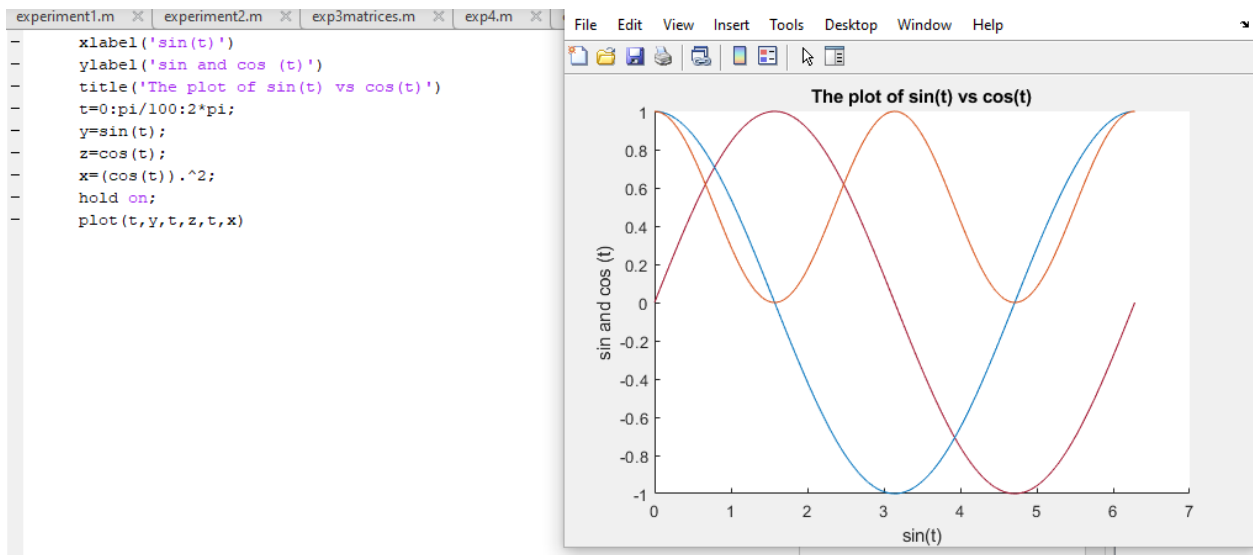
```
1 -     A=[1 1 1; 1 -1 1; 1 2 -1];
2 -     B=[6; 2; 2];
3 -     X=inv(A)*B
```

Command Window

```
X =

     1
     2
     3
```

```
xlabel('sin(t)')
ylabel('sin and cos (t)')
title('The plot of sin(t) vs cos(t)')
t=0:pi/100:2*pi;
y=sin(t);
z=cos(t);
x=(cos(t)).^2;
hold on;
plot(t,y,t,z,t,x)
```

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The plot of sin(t) vs cos(t)

(plot: y-axis labeled "sin and cos (t)" ranging from -1 to 1; x-axis labeled "sin(t)" ranging from 0 to 7)

Editor - C:\Users\G27086705\Desktop\calc.m

```
1   x=[1 3 -15 -2 9]
2   y=[1 0 0 0 1]
3   z=polyval([1 0 0 0 1],2)
4   roots([1 3 -15 -2 9])
```

Command Window

```
    -5.5745
     2.5836
    -0.7951
     0.7860

fx >>
```