
```
%Subplots

%Log graphs

%Bar graphs

x = [1,3,5,7,4,7,9]
bar(x);
figure(2);

%Pie Charts
figure(3);
pie(x);

%Curve Fitting

x = 0 : 1 :5;
y = [15,10,9,6,2,0];

polyfit(x,y,1)
%polyfit returns the coefficients that best fit the function
coef = [-2.9142, 14.2857];
fitterd_data = polyval(coef, x);

%Exercises
t = 0 : 0.01: (2*pi);
x = cos(t) + sin(t);

%cardiod pick up polar pattern
r = 3 + (3*sin(t));

figure(4);
subplot(1,2,1);
plot(x);
axis([-pi pi -1.5 1.5])

subplot(1,2,2);
polarplot(x);

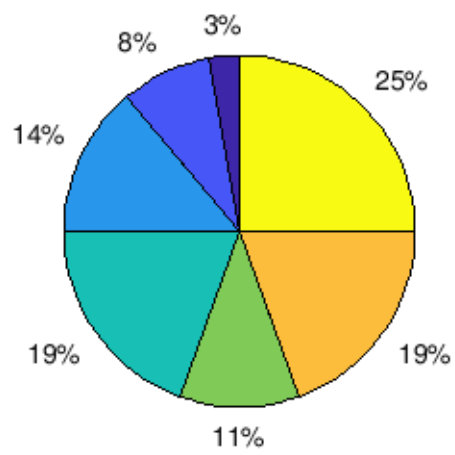
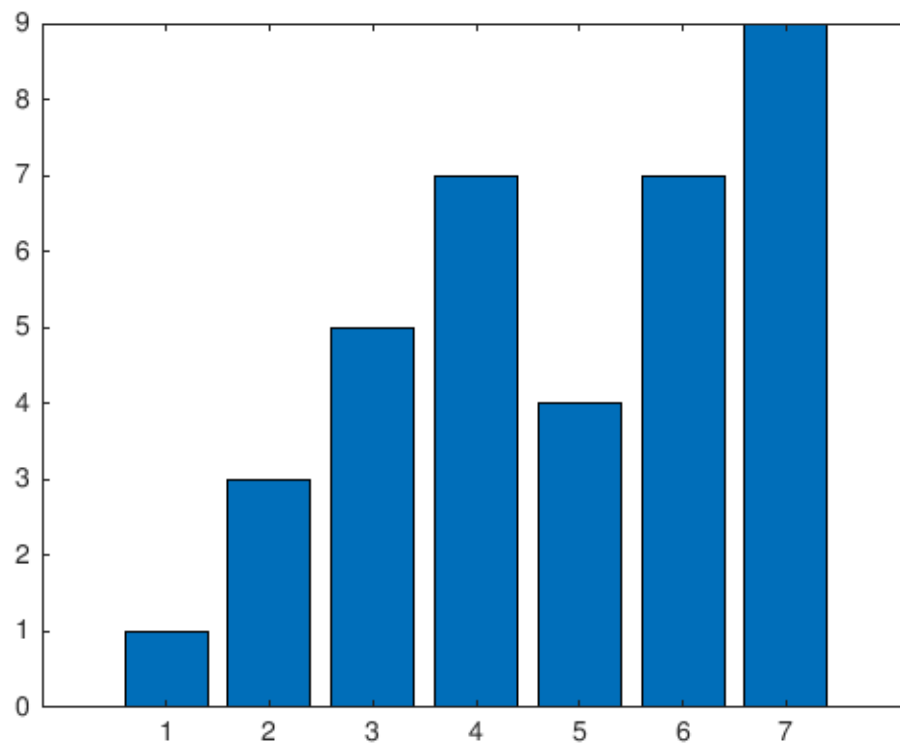
figure(5);
x = -5:1:4;
y = [-506.6, -262.88, -99.43, -36.78, 6.2, 7.11, 16.6, 51, 183,
    427.97];
j = polyfit(x,y, 3);
plot(j);

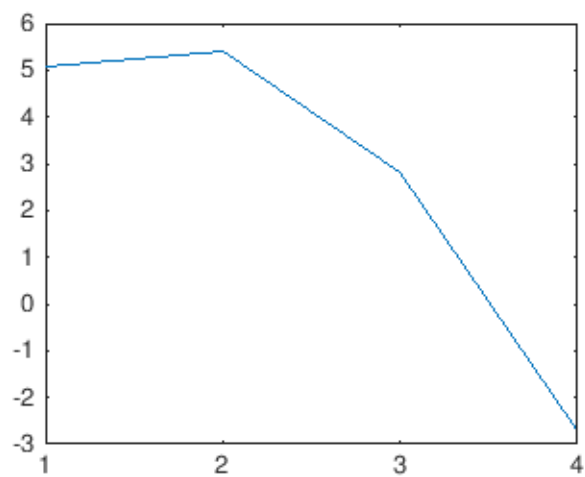
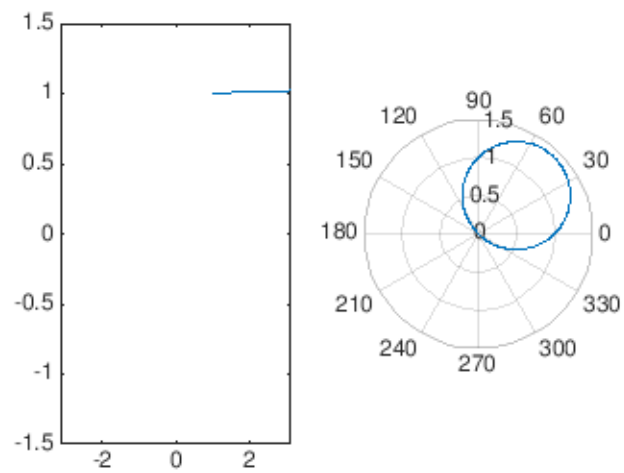
x =

    1     3     5     7     4     7     9
```

ans =

-2.9143 14.2857





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