x = [-6,-4,-2,0,2,4,6];

y = [-0.2,0.8,-1.6,3.5,3.1,4.9,3.9];

p = polyfit(x,y,1);

plot(x,y,"\*")

hold on

X = min(x):0.1:max(x);

Y = polyval(p,X);

plot(X,Y)

xlabel("x")

ylabel("y")

title("CurveFitting")

hold off