a = 1:1:10; %横坐标

b = [8.0 9.0 10.0 5.2 3.1 2.1 4.8 15.0 35.0 40.0]; %纵坐标

y = smooth(b,4,'loess');

y2 = smooth(b,4);

plot(a, b, a, y);

xlabel('x');

ylabel('y && loess');

hold on;