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	The following script estimates the coefficients of polynomials of order 1, 2, and 3, for a given set of observations, and plots the results in three graphs. clc clear all	-
	x = [1 2 3 4 5 6 7 8 9]; y = [2 3 3 5 7 8 8 9 7]; x val = linspace(0,10,100);	
	for degree=1:3 poly = polyfit(x,y,degree);	
	disp([' <mark>Coeff., case</mark> ' num2str(degree) ': ' num2str(poly)]) y_val = polyval(poly,x_val);	
	subplot(3,1,degree) plot(x,y,'r*'), axis([0 10 0 10])	
	hold on plot(x_val,y_val)	
_	ylabel(['Degree: `num2str(degree)]) end	- ch Lab





