CURVE FITTING & INTERPOLATION.



Lab #5

Instructor: Dr. Ha Viet Uyen Synh.

1. Write a program to fit a cubic equation to the following data:

X	3	4	5 4.4	7	8	9	11	12
У	1.6	3.6	4.4	3.4	2.2	2.8	3.8	4.6

Along with the coefficients, determine r2 and sy/x.

2. Fit the following function:

$$y = \alpha_4 x (1 - e^{\beta_4 x})$$

Use nonlinear regression to estimate α_4 and β_4 based on the following data.