

Assignment #9

Name _____

Due 4 December 2009

1. Here is the data set for this problem. We assume that y is a response to x .

x	y
1	43
2	41
3	38
4	30
5	25
6	20
7	13
8	12

- (a) Find S_{xx} , S_{yy} , and S_{xy} .

- (b) Find the regression equation.

- (c) Find SST , SSR , SSE , and s_e .
- (d) Find a 95% confidence interval for the conditional mean of the response variable corresponding to $x_p = 6.5$.
- (e) Find a 95% confidence interval for the predicted value of the response variable corresponding to $x_p = 6.5$.