

A.P. Statistics
Assignment 11.1

Remember to show your thinking through your work.

- 1) Given a dataset of n ordered pairs (each an (x,y)), how many degrees of freedom are there?

- 2) Given the confidence interval formula: $b \pm t^* SE_b$

a) What is b ?

b) What is t^* ?

c) What is SE_b ?

- 3) Here are the golf scores of 12 members of a college women's golf team in two rounds of tournament play. (A golf score is the number of strokes required to complete the course, so that low scores are better.) To what extent may we predict the second round score from the first round score? The standard error about the line is 5.97.

Player	1	2	3	4	5	6	7	8	9	10	11	12
Round 1	89	90	87	95	86	81	102	105	83	88	91	79
Round 2	94	85	89	89	81	76	107	89	87	91	88	80

a) Find a 95% confidence interval for the slope.

b) Find a 99% confidence interval for the slope.