Review

Chp 8

1) Given the data

x	3	5	8	8
У	6	11	18	11

determine the coefficient of correlation, r.

2) Without calculating the exact value of the correlation coefficient r, can you tell whether the following data set has a positive, negative, or zero correlation coefficient?

	Х	-2	-3	4	7	8	
	Y	4	5	15	6	6	
A)	A) Positive			B) Negative			C) Zero

Chap 9

- 3) Suppose A = [1, 2, 3] and X = [-2, 0, 2]. Write X in terms of A.
- 4) Suppose $r_{A,B} = -0.2$ and X = 3A 1 and Y = -2B + 1. Find $r_{X,Y}$.

Chap 10

5) Based on the following information:

Average weight = 140 pounds	SD for weight: 15 pounds
Average height $= 66$ inches	SD for height: 2 inches
r=0.6	

Write the regression equation for predicting height when weight is given:

A) $y = 4.5(x-140) + 66$	B) y = 4.5 (x-66)+140
C) $y = 0.078(x-140)+66$	D) $y = 0.078(x-66)+140$

Chap 11

6) The equation of the regression line for the paired data is y=4.3394x+6.1829 and the standard error of estimate is e=1.6419. Approximately what percentage of y for x=5 will be above 29.2098?