(8 points; 10 minutes)

3. Create a 90% confidence interval for the difference between the two population means represented by the means of the two samples. (Assume that variation is the same for both populations.)

	A	B
	135	90
	86	110
	95	130
	85	98
	167	80
	93	113
	94	
	131	
	119	
average	111.7	103.5
st. dev.	28.2	17.9
n	9	6

Based on your confidence interval, is it reasonable to claim that μ_B is 102 and μ_A is 113? **YES** **NO** **Why?**

(8 points; 10 minutes)

4. Use the data on personal net worth and happiness scores for a random sample of 6 people to test the claim that net worth and happiness are positively correlated. (Let $\alpha = 0.05$ for this test.)

Person:	1	2	3	4	5	6
Net worth*:	65	120	127	131	190	83
Happiness:	7	4	7	10	7	1

* in $1000's

Claim: _____

H_0: _____

H_1: _____