Math 477, Worksheet for lecture 23

Name: \_\_\_\_\_

Net ID: \_\_\_\_\_

1. Suppose that person A is 70" and weighs 185lbs, person B is 63" and weighs 140, and person C is 72" and weighs 170lbs. What is the correlation between height and weight for these people?

2. Suppose that Var(X) = 100, Var(Y) = 200, Var(X + Y) = 400.(a) Find Cov(X, Y).

(b) Find Var(X - Y).

(c) Are X and Y independent?