## Math 477 "QUIZ" for Lecture 19

NAME: (print!) $\qquad$

E-MAIL ADDRESS: (print!) $\qquad$

1. In a certain family of three boys, the Height (in centimeters) and Weights (in kilograms) are as follows

Alex: Height: 170 cm ; Weight: 75kg
Bob: Height: 180cm ; Weight: 80 kg
Charlie: Height: 190 cm ; Weight: 85 kg
What is The correlation between the Height and the Weight in that family?
2. Suppose that $\operatorname{Var}(X)=2, \operatorname{Var}(Y)=1, \operatorname{Var}(X+Y)=4$. Find $\operatorname{Var}(2 X+3 Y)$.

