Math 477 "QUIZ" for Lecture 19

NAME: (print!)
E-MAIL ADDRESS: (print!)
1. In a certain family of three boys, the Height (in centimeters) and Weights (in kilograms) are as follows
Alex: Height: 170cm; Weight: 75kg
Bob : Height: 180cm; Weight: 80 kg
Charlie: Height: 190cm; Weight: 85kg
What is The correlation between the Height and the Weight in that family?

2. Suppose that $Var(X)=2, \, Var(Y)=1, \, Var(X+Y)=4$. Find $Var(2\,X+3\,Y)$.