Stat 1040	Name
Quiz 4, Fall 2014	Recitation Instructor

1. The summary statistics for the female runners at a recent marathon are:

 $x = height \qquad AV_x = 65 \qquad SD_x = 3$ $y = weight \qquad AV_y = 120 \qquad SD_y = 10$ r = 0.6a) What does r, the correlation, measure? (1 point)

b) Find the slope of the SD line. (1 point)

c) Find the slope of the regression line. (1 point)

d) Find the equation of the regression line. (3 points)

e) Use the regression method to estimate the weight of a runner who is 70 inches tall.(3 points)

f) The regression estimate in part e) is an estimate of what value? (1 point)