# Practice for Quiz 3

(The quiz will be on Thursday, October 12.)

Math 125 *Kovitz* Fall 2023

A group of men in a survey produced the following data:

average height = 70 inches,    SD = 3 inches

average height = 180 pounds,    SD = 45 pounds,  $r = 0.4$

(a) A man picked at random from the above group was 75 inches tall. Predict his weight.

(A) 153.05 pounds    (B) 198 pounds    (C) 210 pounds    (D) 255 pounds
(E) 270 pounds

(b) Find the root-mean-square error of the regression line for predicting weight from height.

(A) 18 pounds  (B) 24 pounds  (C) 37.8 pounds  (D) 41.243 pounds  (E) 45 pounds

(c) Find the regression equation for predicting weight from height.

(A) wt = $0.08 \times$ ht + 174.4    (B) wt = $0.26667 \times$ ht + 161.3331

(C) wt = ht+110                (D) wt = $6 \times$ht$-240$        (E) wt = $15 \times$ht$-870$