Fadhillah - 2702337211

Exercise 1:

$$1. y' = b \times + A$$
 $M_{x} = 5.5$ $M_{y} = 72.6$
 $b = r\left(\frac{5x}{5x}\right)$ $S_{x} = 3.03$ $S_{y} = 13.2$

$$r = \frac{\sum xy}{\sqrt{\sum x^2 \sum y^2}}$$

$$b = 0.973 \left(\frac{13.2}{3.03} \right)$$

$$A = \frac{72.6}{72.6} \text{ My} - b(\text{Mx})$$

$$=49.3$$
 $->$
 $y'=4.239X+49.3$

The predicted value is higher than the data in the table. The reason for this is because of the data Sample data has more variability due to other factors, and as these factors are not considered in the affects the data.

3.
$$Y' = 4.239(11) + 49.3$$

= $95.929 \approx 196$

$$r = 0.728$$

$$b = r\left(\frac{S_{y}}{S_{x}}\right)$$

$$=0.728\left(\frac{11.937}{3.1627}\right)$$

Predicted weight @ For 70-ineh height person is 170.5 pounds.