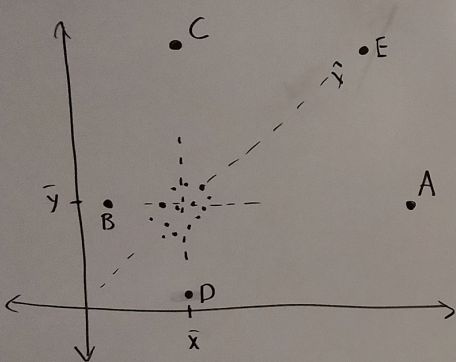


3-6 5.3 Outliers + Influence



Point	Slope	Y-int	Correlation
A	Decreases	Increase	Decreases
B	Decreases (not as much)	Inc.	Decreases
C	Same	Inc.	Decreases
D	Same	Dec	Decreases
E	Same	Same	Increase

$$y = a + bx$$

$$\text{slope } b = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2}$$

$$\text{y-int } a = \bar{y} - b \cdot \bar{x}$$

* Outliers in x direction are very influential on your regression.

(Distance from \bar{x})
"Leverage"