

⑦ Scatter plot & correlation ( $r$ )  
Form (shape), Direction, & Strength

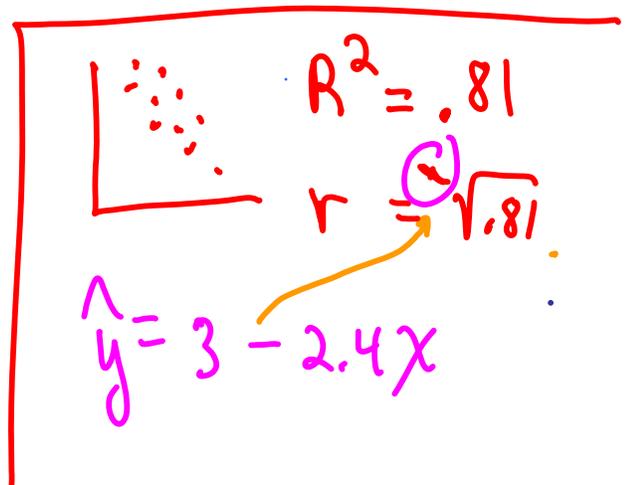
⑧ Regression Line  $b = r \frac{s_y}{s_x}$  &  $a = \bar{y} - b\bar{x}$   
 $\hat{y} = a + bx$

Estimation, extrapolation  
interpreting slope & y-int.

$R^2$   
Residual = observed - predicted =  $y - \hat{y}$

$$\hat{y} = -1.16x + 89.82$$

⑨ Leverage + Residual  
Influential points.



⑫ + ⑬ Like Homework