

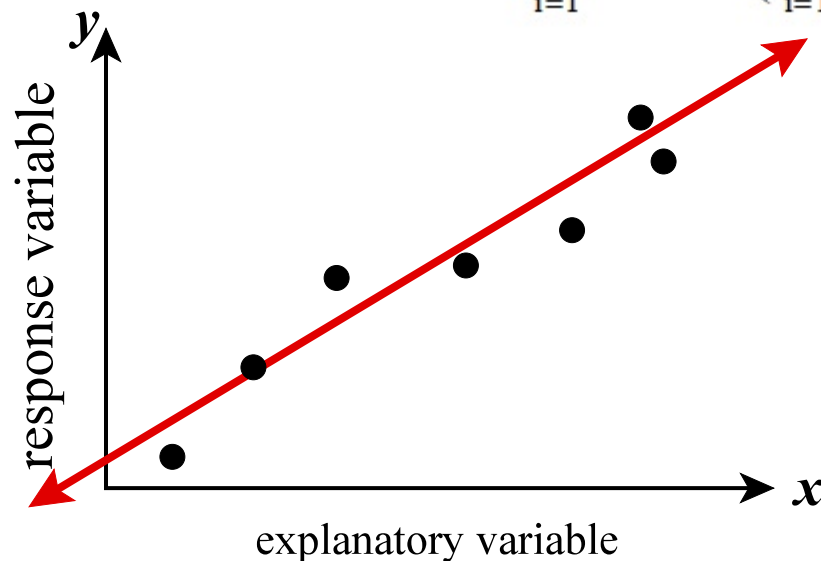
# I. Least-Squares Line (p.554):

the line which “best fits” the points in a scatter diagram is given by the equation...

$$\hat{y} = a + bx$$

where,  $a = \bar{y} - b\bar{x}$

and  $b = \frac{n \cdot \sum_{i=1}^n x_i \cdot y_i - \left( \sum_{i=1}^n x_i \right) \left( \sum_{i=1}^n y_i \right)}{n \cdot \sum_{i=1}^n x_i^2 - \left( \sum_{i=1}^n x_i \right)^2}$



II. Examples (pp.566-567): #8acdf,**10acdf**

HW: pp.564-567 / #1,3,7,9,11,13

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Final Exam: **Tuesday, December 17<sup>th</sup>**  
**2:00 p.m. – 4:00 p.m.**