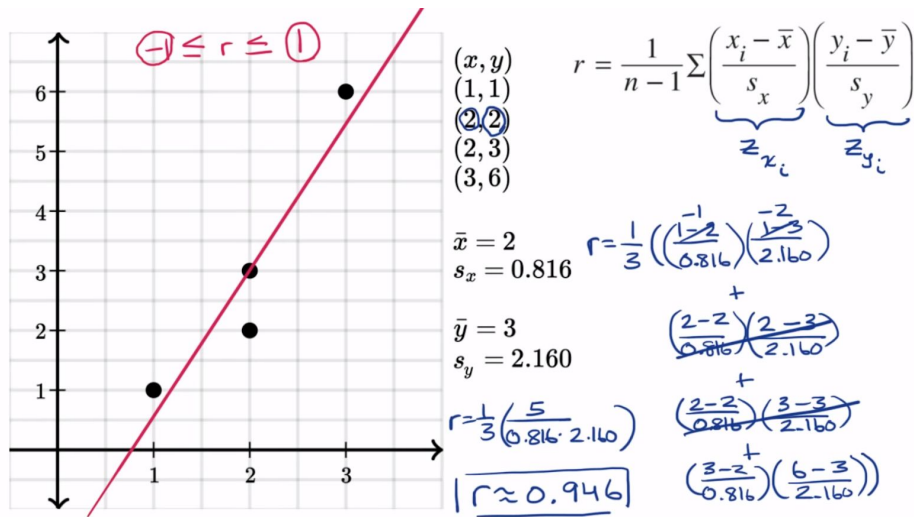


Calculating A Linear Regression Line Equation

1. Calculate **r-value**:



2. To get the slope of the line multiply the **r-value** by the Standard Deviation of the **y-values** over the **x-values**:

$$m = r \left(\frac{S_y}{S_x} \right)$$

3. Plug in the means for **x-values** and **y-values** to get the **y-intercept**:

$$\bar{y} = m\bar{x} + b$$

