

| | | | | | | | | | | | |
|---|---|---|---|---|---|----|----|----|----|----|------|
| X | 0 | 2 | 4 | 6 | 9 | 11 | 12 | 15 | 17 | 19 | 14.5 |
| y | 5 | 6 | 7 | 6 | 7 | 8 | 8 | 10 | 12 | 10 | |

$$a_1 = \frac{n \sum x_i y_i - \sum x_i \sum y_i}{n \sum x_i^2 - (\sum x_i)^2} = 0.359196$$

$$\bar{y} = \frac{\sum y_i}{n} = 8.3, \quad \bar{x} = \frac{\sum x_i}{n} = 9.5$$

$$a_0 = \bar{y} - a_1 \bar{x} = 4.888117$$

$$r^2 = \frac{S_{xy} - \bar{y} \bar{x}}{S_{xx}} = .829885$$

$$r = .910980$$

$$S_{y/x} = 0.851$$

| | | | | | | | | | | |
|---|---|---|---|---|---|----|----|----|----|----|
| X | 5 | 6 | 7 | 6 | 9 | 8 | 8 | 10 | 12 | 12 |
| y | 0 | 2 | 4 | 6 | 9 | 11 | 12 | 15 | 17 | 19 |

$$a_1 = 2.486317$$

$$a_0 = -11.135$$

$$\bar{x} = 8.3, \quad \bar{y} = 9.5$$

$$r^2 = .893$$

$$\text{Error: } 2.239$$