3.
$$\bar{x} = \frac{1}{9} \sum_{i=1}^{9} x_i = 26$$

$$\sum_{i=1}^{9} x_i^2 = 10144$$

$$\bar{y} = \frac{1}{9} \sum_{i=1}^{9} y_i = 90.14$$

$$\sum_{i=1}^{9} y_i^2 = 76518.19$$

$$\sum_{i=1}^{9} x_i y_i = 24628.6$$

$$i = 1$$

$$\hat{b} = \frac{\sum_{i=1}^{9} x_i y_i - n \bar{x} \bar{y}}{\sum_{i=1}^{9} x_i^2 - n \bar{x}^2} = 0.8$$

$$\hat{a} = \bar{y} - \hat{b} \bar{x} = 67.5$$

$$\hat{c}^2 = \frac{1}{7} \sum_{i=1}^{9} (y_i - \bar{y})^2 - \hat{b}^2 \times \frac{1}{7} \sum_{i=1}^{9} (x_i - \bar{x})^2 = 2.145$$