

$$y = mx + b$$

$$m = \frac{\sum_{i=1}^n \frac{x_i \cdot y_i}{(\Delta y_i)^2}}{\sum_{i=1}^n \frac{x_i^2}{(\Delta y_i)^2}}$$

$$m = \frac{n \sum_i x_i y_i - \sum_i x_i \sum_i y_i}{n \sum_i x_i^2 - (\sum_i x_i)^2}$$

$$b = \frac{\sum_i x_i^2 \sum_i y_i - \sum_i x_i \sum_i x_i y_i}{n \sum_i x_i^2 - (\sum_i x_i)^2}$$