
Follow the same guidelines as in Homework 4 for this assignment.

- 1) (1 pts) This is a thinking problem. You don't need to write a program.

If you have a table of values for some observed data, (x_i, y_i) , then the slope and y -intercept of the best-fit line $y = mx + b$ through the points are defined by the following formulas

$$m = \frac{\sum_{i=1}^n (x_i - x_{\text{mean}}) \cdot (y_i - y_{\text{mean}})}{\sum_{i=1}^n (x_i - x_{\text{mean}})^2}$$
$$b = y_{\text{mean}} - m \cdot x_{\text{mean}}$$

These formulas look similar to the ones we have been using in other assignments. You could write a program that would compute m and b given the observed data points, but this program would be difficult to use. Why is this the case?