

# Homework 3 - Equation

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The equation below is for the standard deviation of a set of data, where  $s$  is the standard deviation variable,  $N$  is the amount of values within the set,  $x_i$  is the  $i$ th element in the set, and  $\bar{x}$  is the average of the set of data. The equation looks as follows:

$$s = \sqrt{\frac{1}{N-1} \sum_{i=1}^N (x_i - \bar{x})^2}.$$