

Homework Solutions

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Exercise 20

- (a) The ranges are the same, because both distributions go from -2 to 2 .
- (b) The means are the same, because both distributions are symmetric and centered at 0 .
- (c) The standard deviation for Plot 1 is larger than the standard deviation for Plot 2 because, on the average, the values are farther from the mean. In particular, the two “blue” values are farther, while the others have not changed.
- (d) Both ranges are 4 . Both means are 0 . The standard deviation in Plot 1 is 1.4907 . In Plot 2 it is 1.1547 .