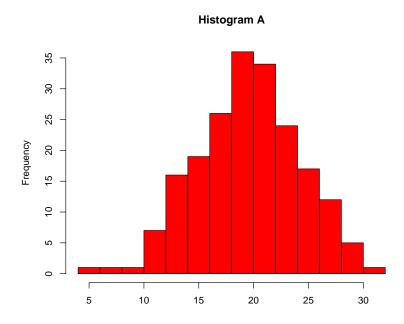
## Homework #1

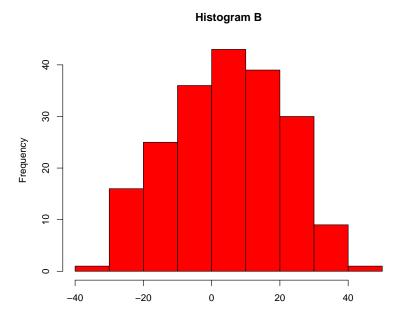
For a problem that asks you to use R, include a copy of the code and output.

| 1. Please answer following questions after reading syllabus. |     |  |
|--|-----|--|
|  | (a) | Briefly list homework submission policies.   |
|  | (b) | When are Midterm 1, Midterm 2 and Final?   |
|  | (c) | Where can I check my grades?   |
|  | (d) | Where can I download slides and notes?   |
| 2.   | Con | sider the following data on the running speed (cm/s) of a certain species of spider:   |
|  |     | 1.25, 1.64, 1.91, 2.31, 2.37, 2.38, 2.84, 2.87, 2.93, 2.94, 2.98, 3.00, 3.09, 3.22, 3.41   |
|  | (a) | Use R to create a frequency histogram of the data.   |
|  | (b) | Use a calculator to computer the mean and standard deviation for the data. Make sure to include units. Say what these values mean. Then use R to compute them. Do the answers agree? |
|  | (c) | Find the three quartiles for the data. Then use R to compute them. Do the answers agree?   |

(d) Use R to compute the range and IQR for the data.

## 3. Consider the following two histograms:





- (a) Say which of the two histograms has a larger mean, or if they are about the same. Explain your answer.
- (b) Say which of the two histograms has a larger standard deviation, or if they are about the same. Explain your answer.