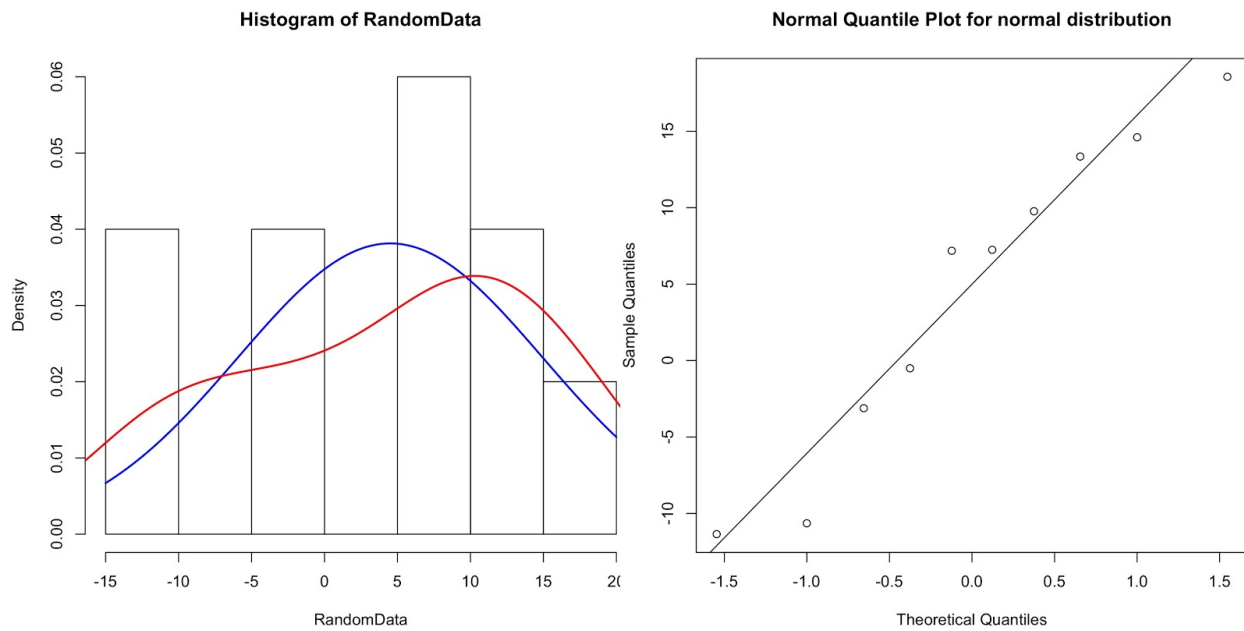


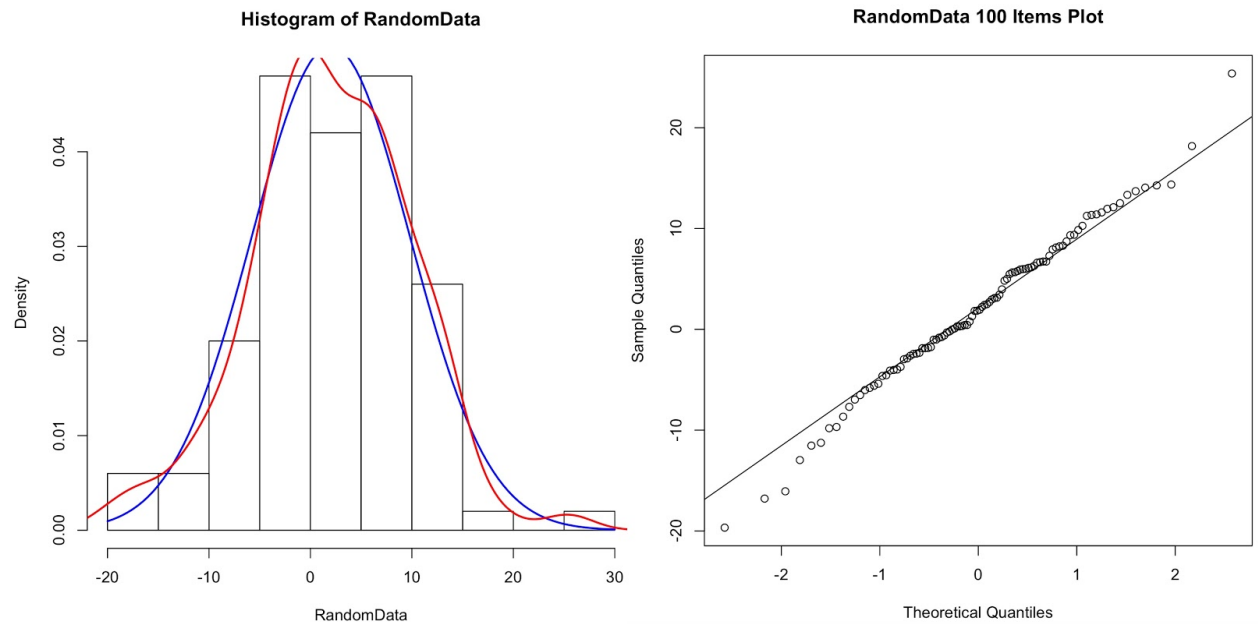
Elaine Avgoustakis (eavgoust)
Elena Hutchison (ehutchis)
Harris Christiansen (christih)
Garrett Davidson (gdavids)
2015-02-07

Stat 350 - Lab Three Part E

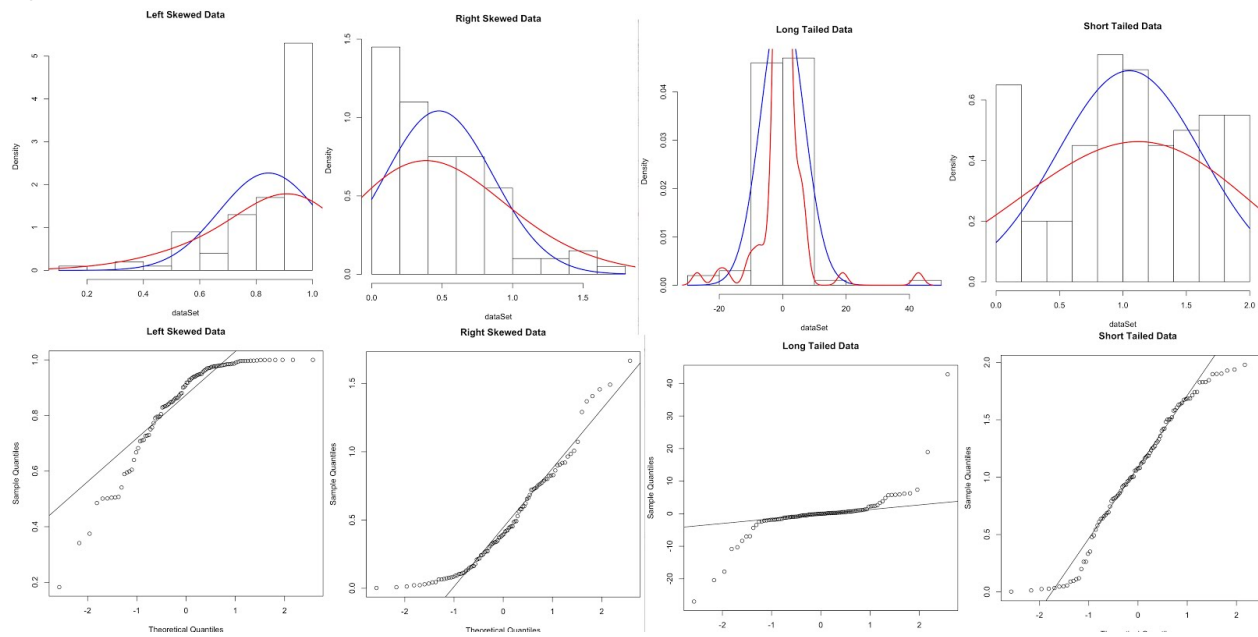
1.
Harris Christiansen (HC) Results:
A)



B)

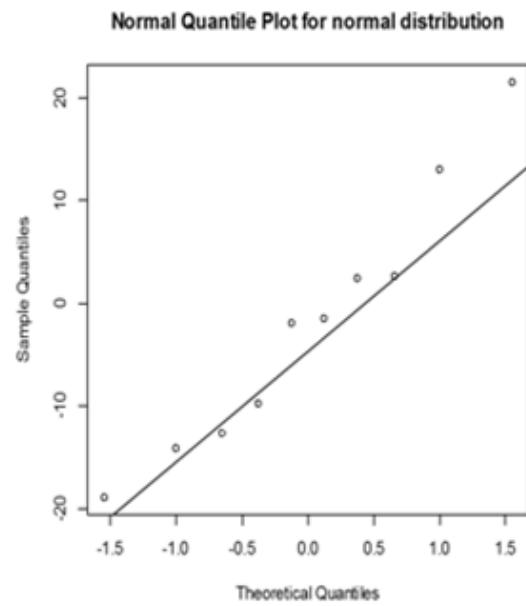
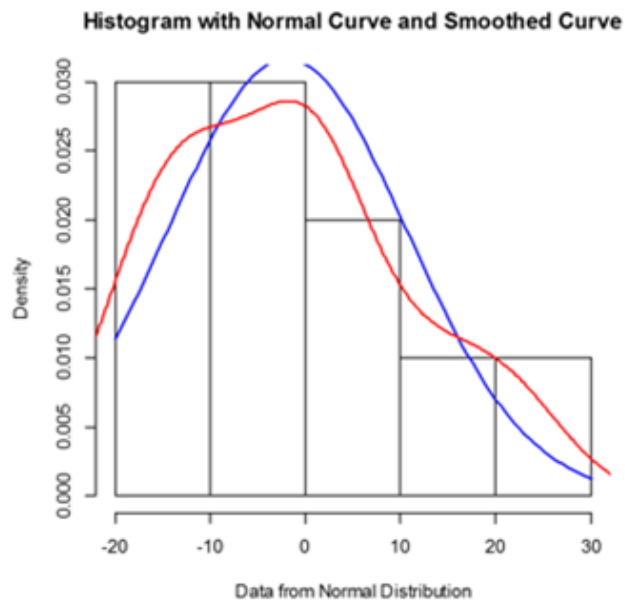


C)

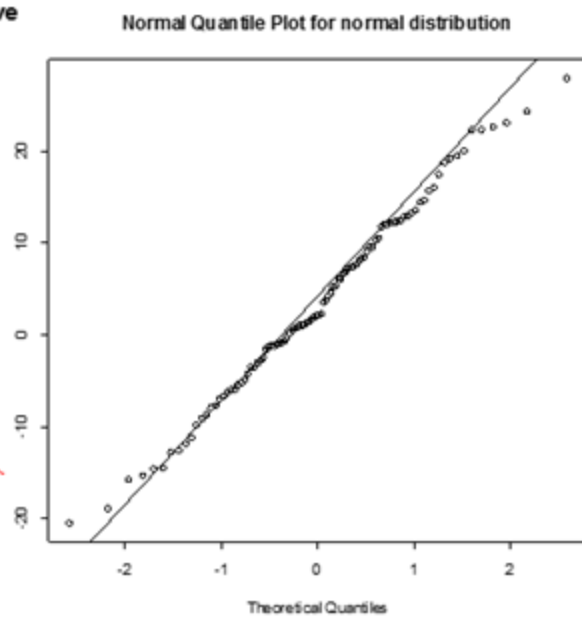
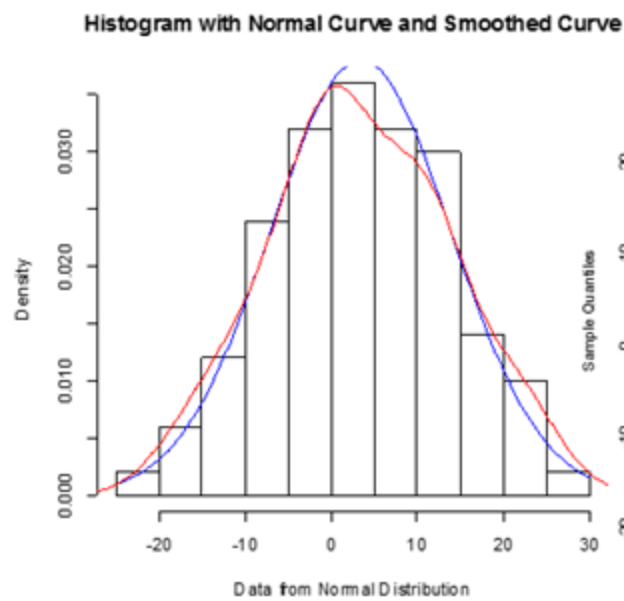


Elena Hutchison (EH) Results:

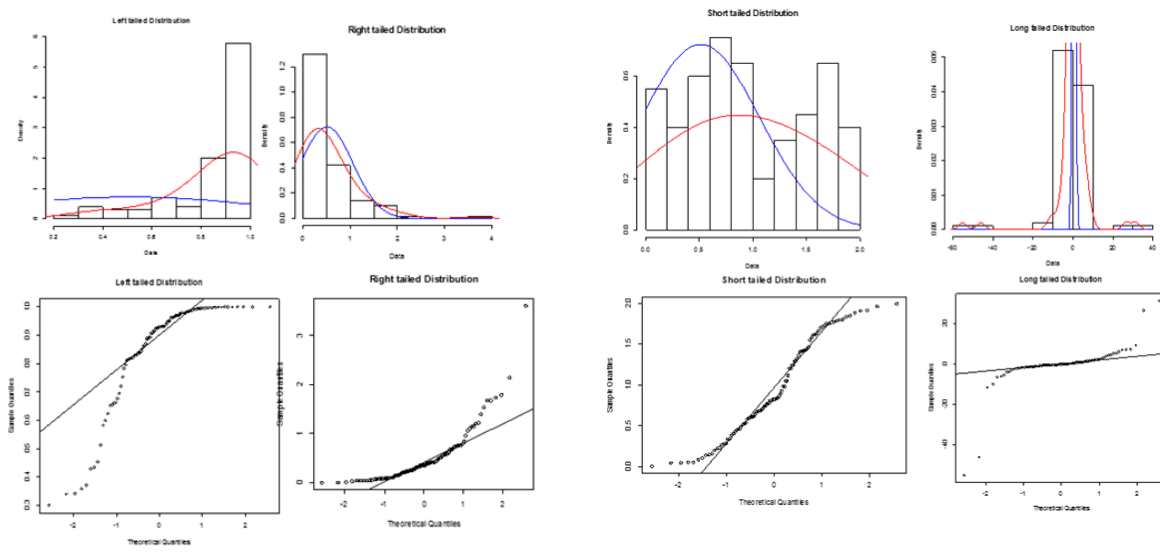
A)



B)

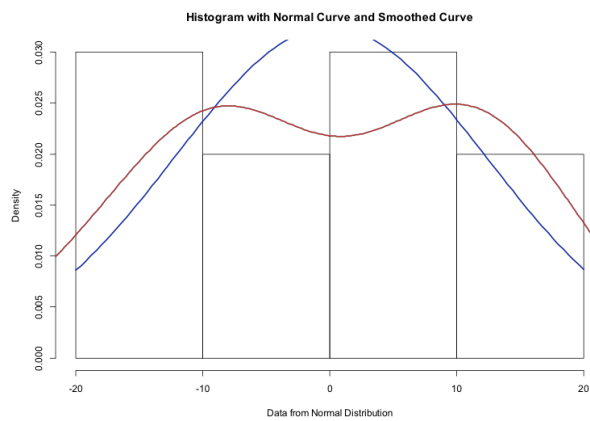


C)

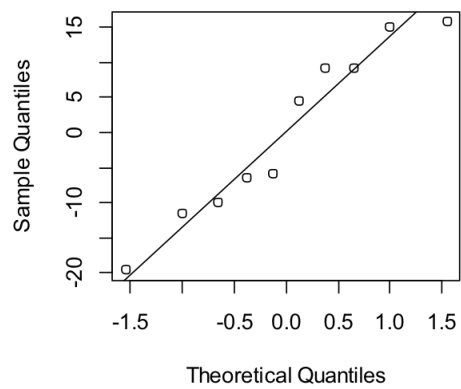


Elaine Avgoustakis (EA) Results:

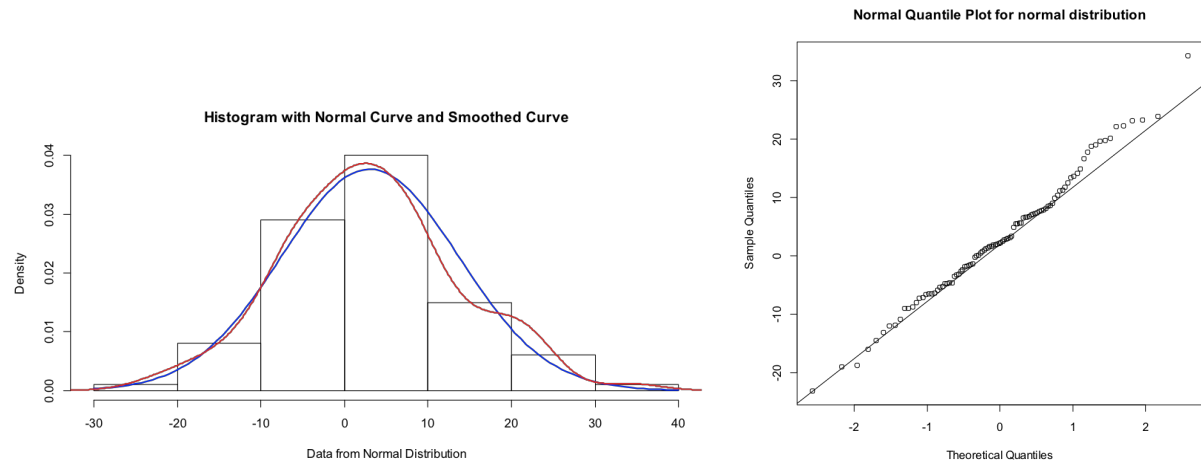
A)



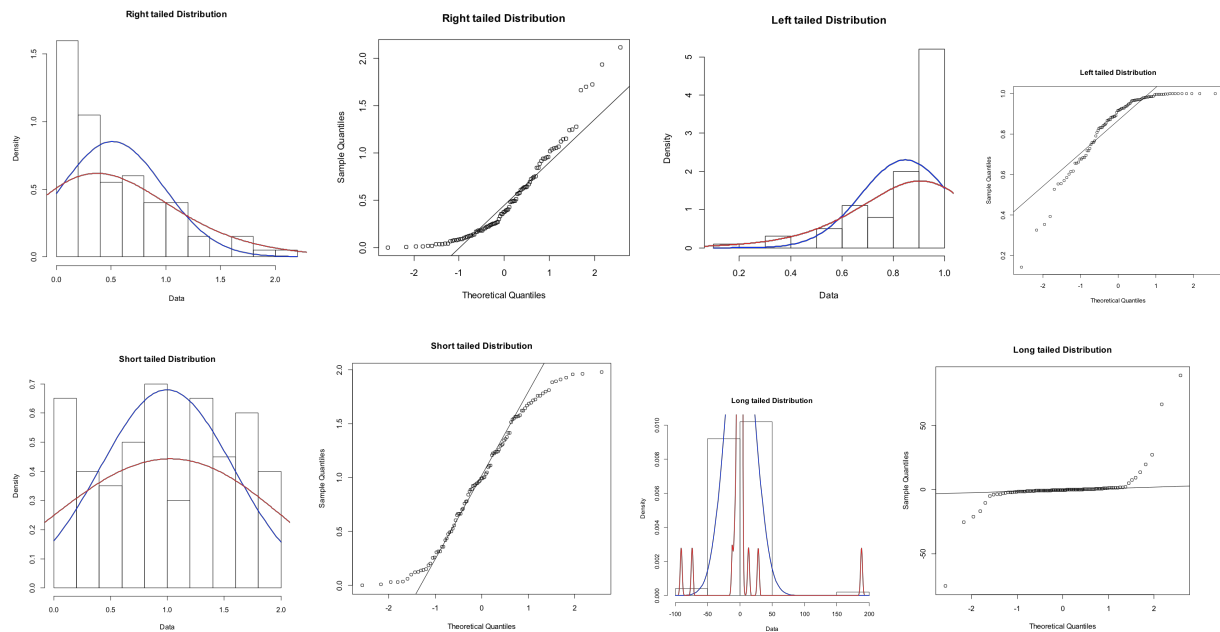
Normal Quantile Plot for normal distribu



B)

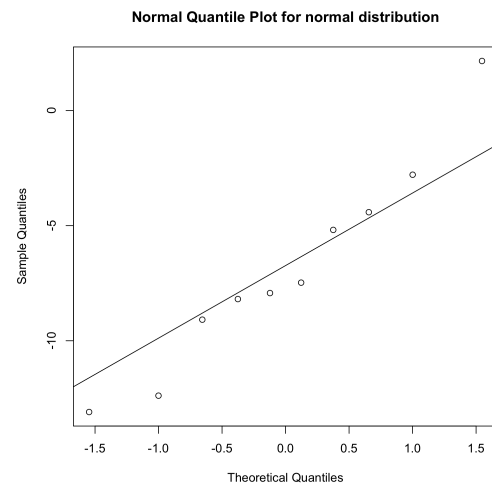
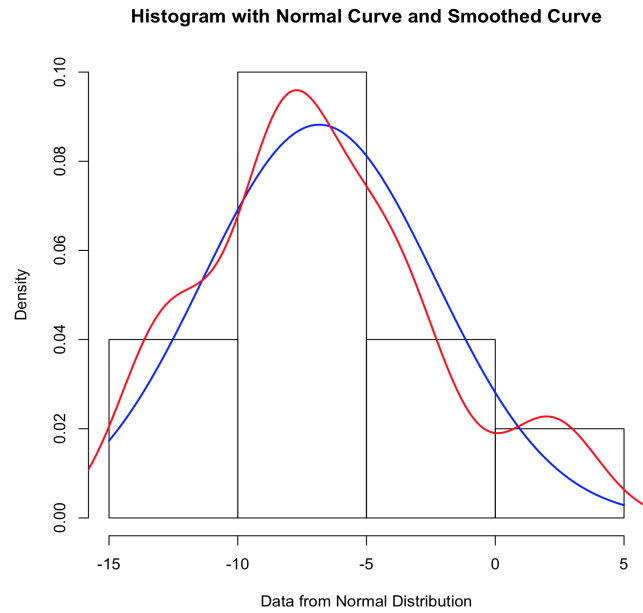


C)

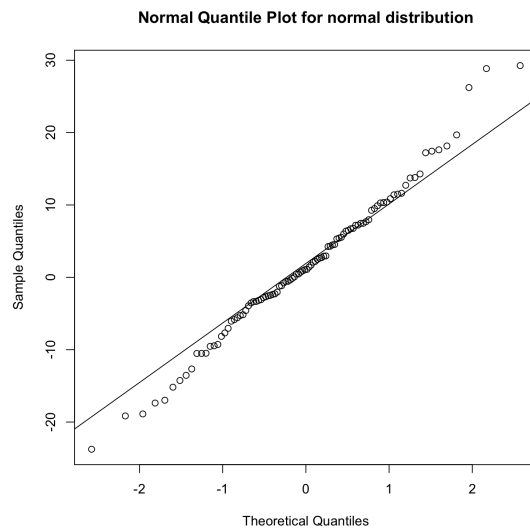
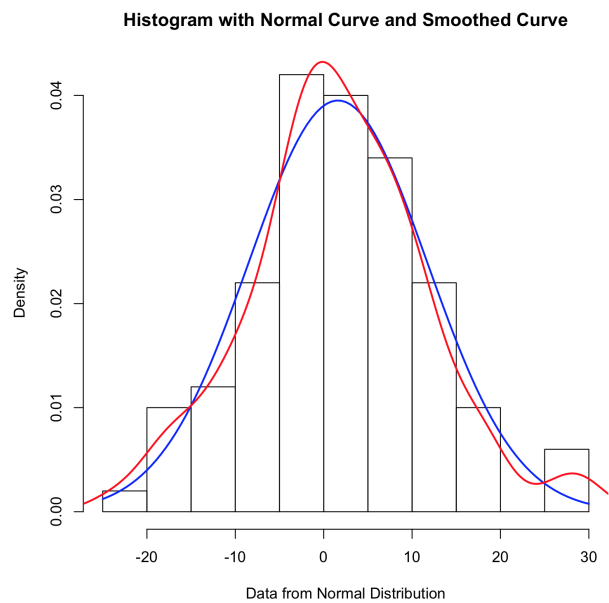


Garrett Davidson (GD) Results:

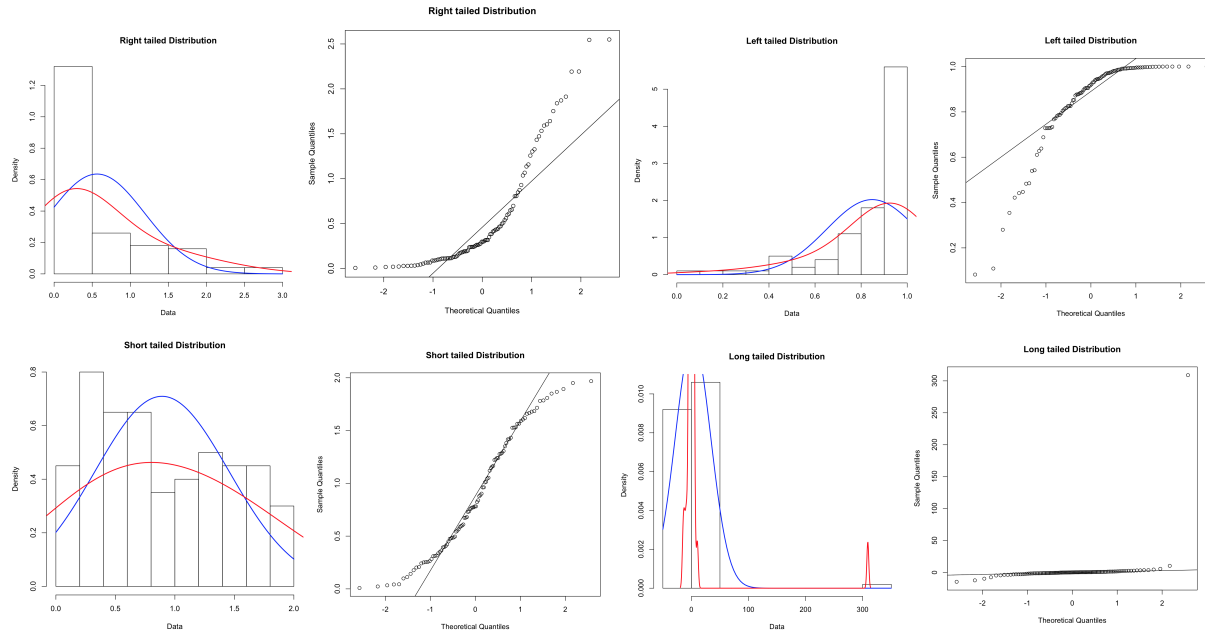
A)



B)



C)



2.

Part A: There are differences in the graphs due to different random selections of data. In HC's data the range is -15->20, in EH's data the range is -20->30, in EA's data the range is -20 to 20, and in GD's data the range is -15 to 5. Even the plotted normal curves differ due to using the mean of the randomly selected data with relatively few data points.

Part B: With a higher pool of data, the graphs are a lot more similar to each other. Differences are still a result of different random selections of data. In HC's data the range is -20->30, in EH's data the range is -20->30, in EA's data the range is -30 to 40, and in GD's data the range is -20 to 30. The plotted normal curves, especially, more closely align with one another, with mean approximately three (vs a mean of two for the data sampled from), which is the result of a significantly larger sample.

Part C: Because of a large sample size, our graphs were extremely similar - all differences are again due to different random selections of data.

Right Skewed: Very similar data in all four sets. The curves are much steeper in EH's and GD's data, which appears to be related outliers on the high extreme of the range.

Left Skewed: Very similar data in all four sets. The graphs are almost identical.

Short Tailed: EH's data formed a much shallower slope line on the quantile plot compared to HC's, EA's, and GD's.

Long Tailed: Very similar data, however EA's data appeared much more jagged (multiple red peaks) compared to HC's and EH's, while GD's data also appeared heavily right skewed.