

Assignment 1

Problem 1 (40 Marks): Fill in the information below based on your data set which was generated using your ID number as the seed for the random number generator.

The first five numbers in your Gaussian data set are:

| | | | | |
|--------|-------|-------|-------|-------|
| -11.04 | -8.57 | -7.31 | -7.28 | -7.13 |
|--------|-------|-------|-------|-------|

Sample mean = 2.71045

Sample standard deviation = 4.412914

The five number summary is:

| | | | | |
|--------|--------|-------|-------|-------|
| -11.04 | -0.215 | 2.635 | 5.465 | 14.69 |
|--------|--------|-------|-------|-------|

Sample median = 2.635

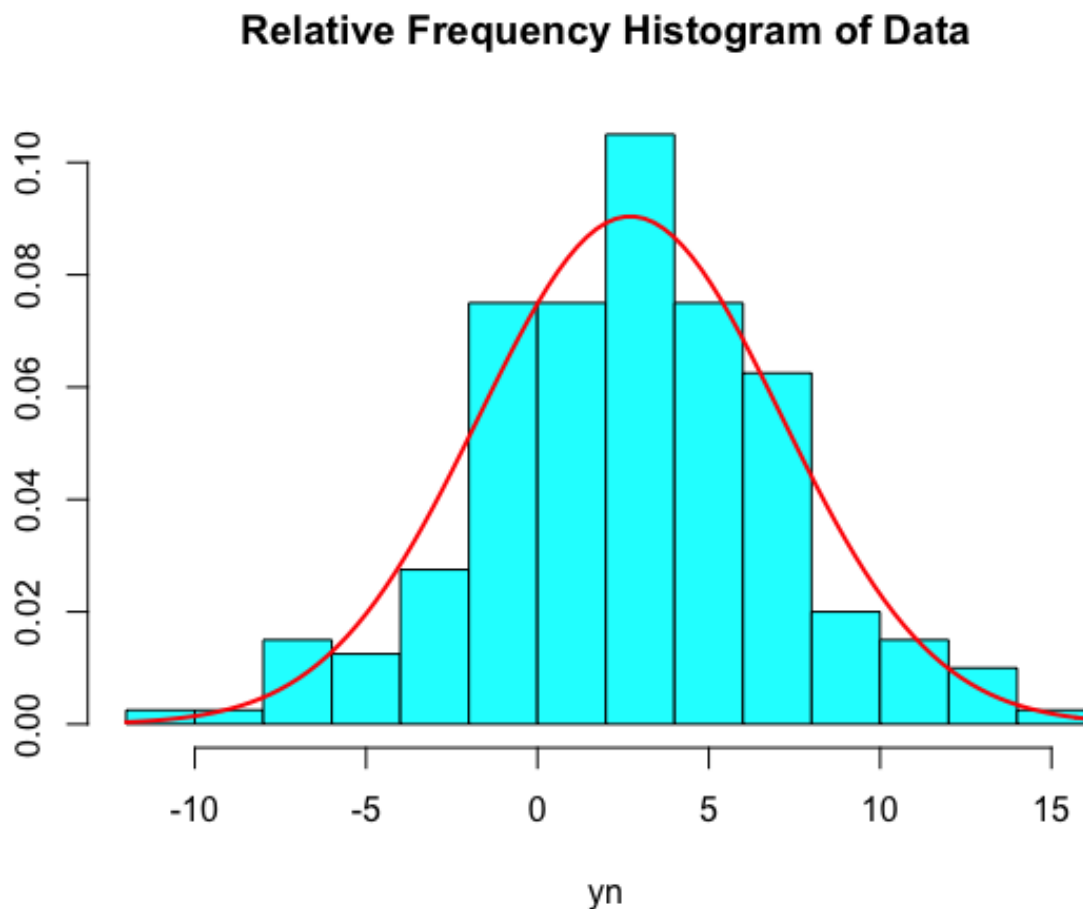
Range = $14.69 - (-11.04) = 25.73$

IQR = $5.465 - (-0.215) = 5.68$

Sample skewness = -0.2029152

Sample kurtosis = 4.486426

Insert the plots of the relative frequency histogram with superimposed Gaussian probability density function and empirical cumulative distribution function with superimposed Gaussian cumulative distribution function on this page.



Empirical and Gaussian C.D.F.'s

