First Name: John Last Name: Smith Student Number: 20456458

Assignment 1 Example

Problem 1:

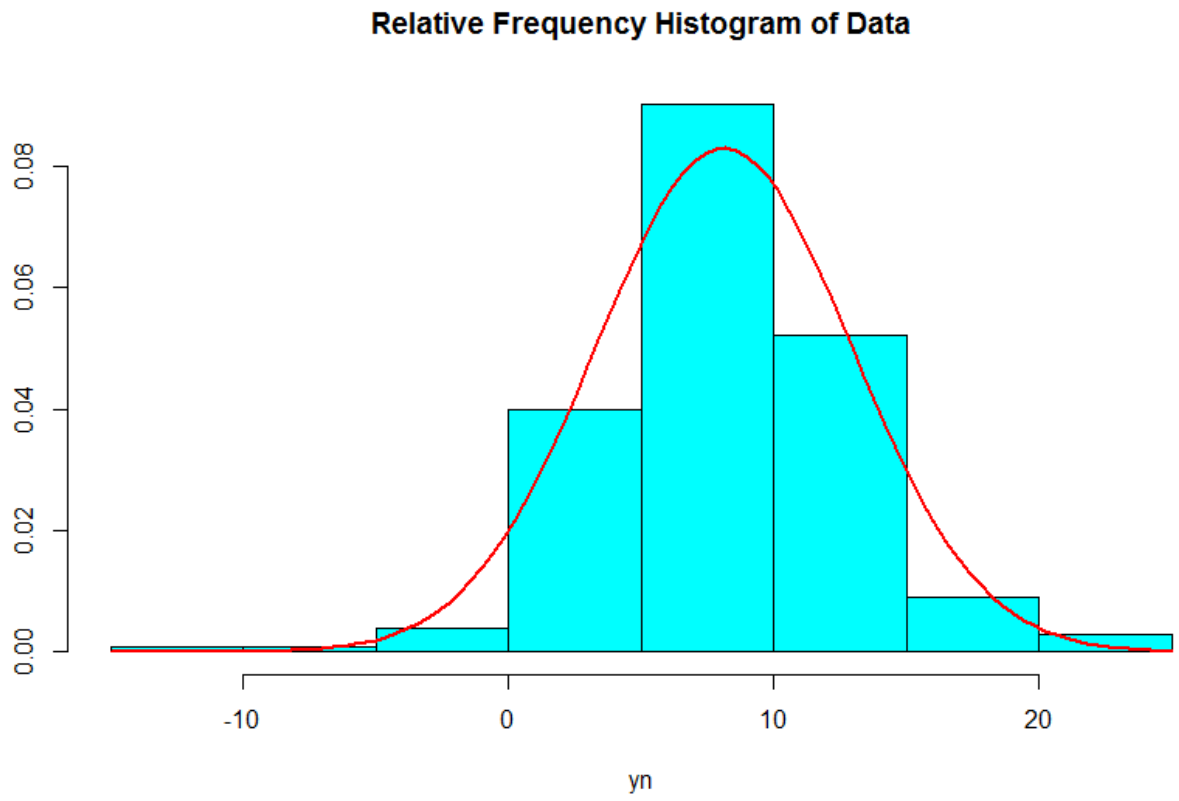
The first five numbers in your Gaussian data set are:

-12.89	**-5.67**	**-2.60**	**-1.54**	**-0.31**

Sample mean = 8.114650
Sample standard deviation = 4.812293
The five number summary is:

-12.89	**5.36**	**7.815**	**11.320**	**20.770**

Sample median = 7.815
Range = 20.770 – (-12.89) = 33.66
IQR = 11.32 – 5.36 = 5.96
Sample skewness = -0.2029152



Sample kurtosis = 4.486426

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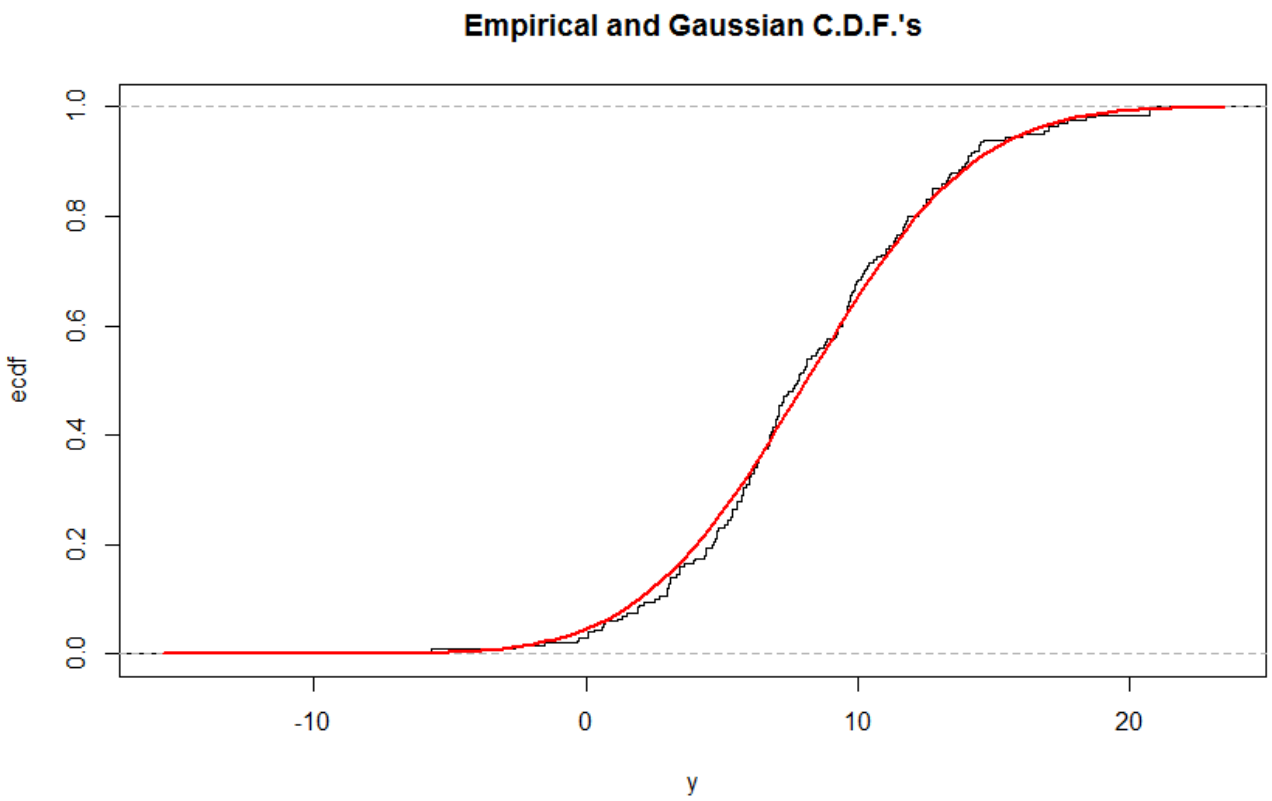

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<u>Problem 2:</u> The first five numbers in your Exponential data set are:

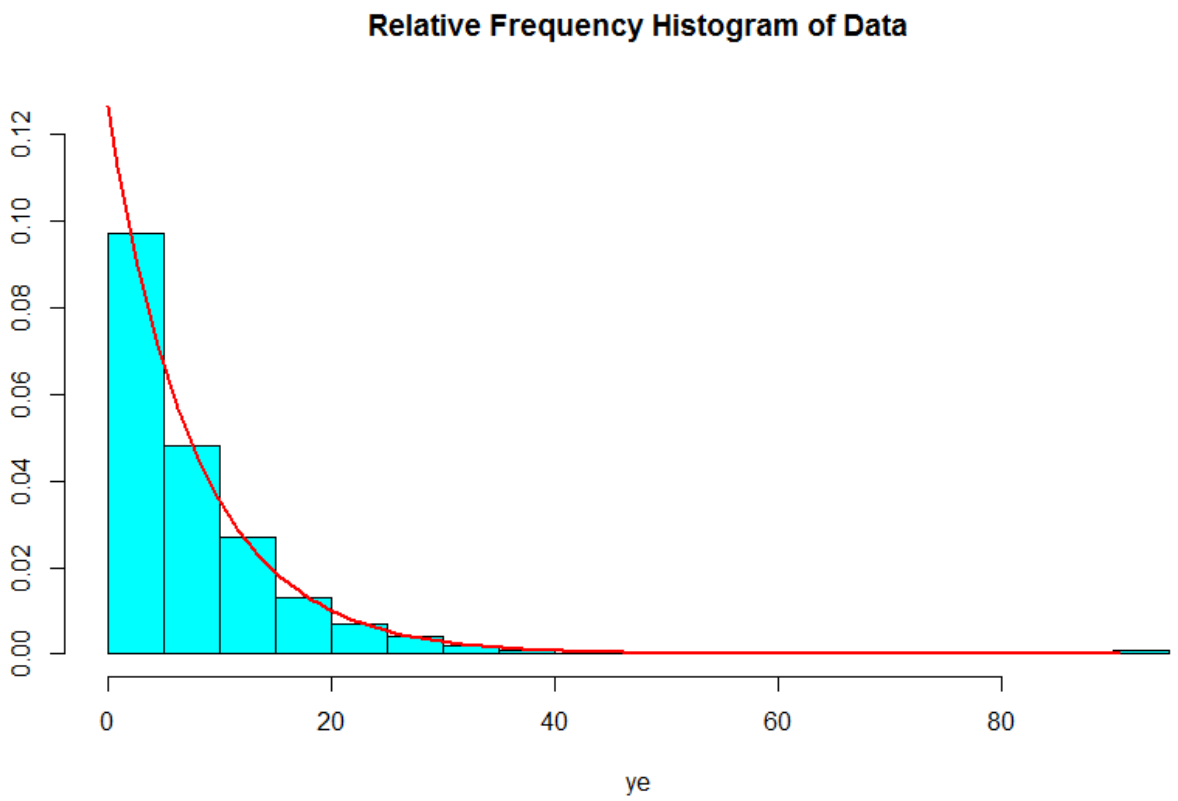
0.01	**0.13**	**0.18**	**0.24**	**0.26**

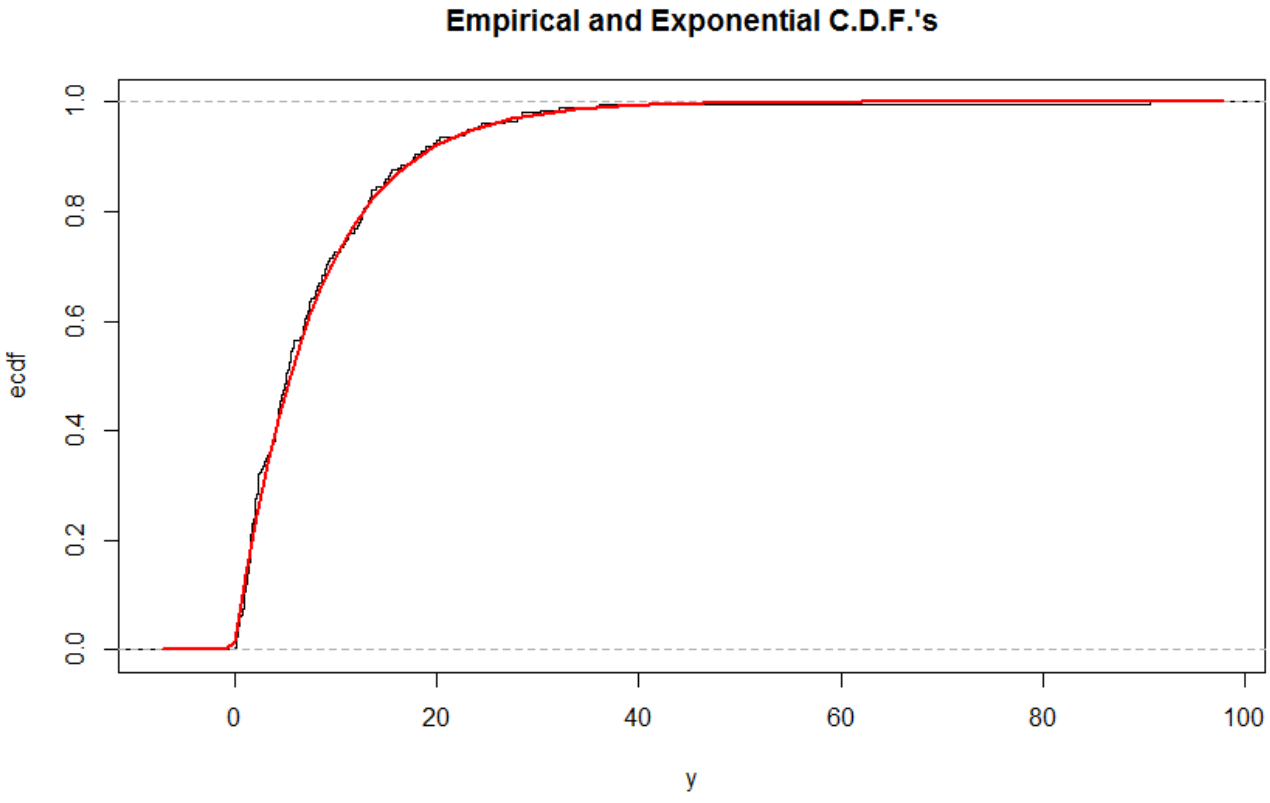
Sample mean = 7.916900
Sample standard deviation = 9.249768
The five number summary is:

0.010	**2.070**	**5.095**	**11.120**	**90.520**

Sample median = 5.095
Range = 90.520 – 0.010 = 90.51
IQR = 11.120 – 2.070 = 9.05
Sample skewness = 4.198336
Sample kurtosis = 33.82573

First Name: John Last Name: Smith Student Number: 20456458





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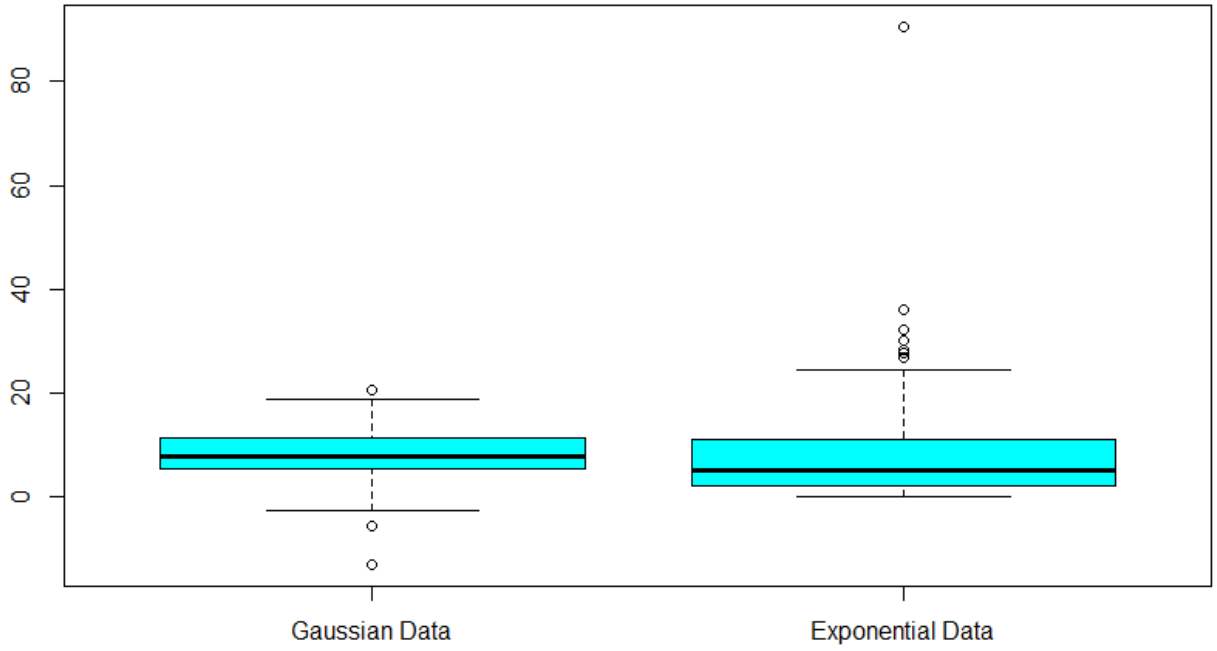

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Problem 3:

Alpha = 8.11465 **Beta = 7.9169**

The first five pairs of numbers in your bivariate data set are:

x	y
1.1	24.1
1.9	14.9
8.5	64.1
15.5	136.9
19.6	156.0

Sample Correlation = 0.9365159