STATISTICAL REVIEW

Homework Set 1

Question 1:
Recreate the exploratory analysis graphs in the lecture notes using MINITAB by appropriately organizing each dataset in columns, copying the data from EXCEL into MINITAB and using the graphical exploratory analysis tools from MINITAB.

Question 2: Quality Control Problem:
We know that the probability of an item being defective, \( p \), can only be

\[ .05, .1 \text{ or } .2. \]

However, we have no additional information on which on if these three is more likely. If we test items until a defective item has been found, what is the probability that \( p \) is .05, .1 or .2 given you had to test 1, 2, 3, 4 or 5 items (I am asking for 15 posterior probabilities). Setup a probability table in Microsoft Excel to perform the calculations above and draw conclusions from the posterior probabilities.