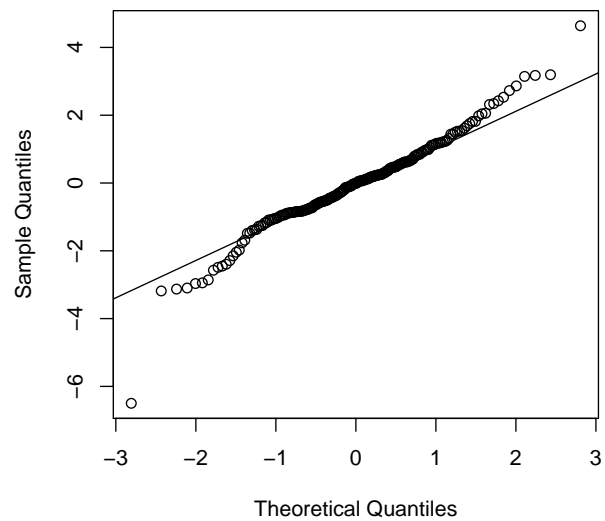
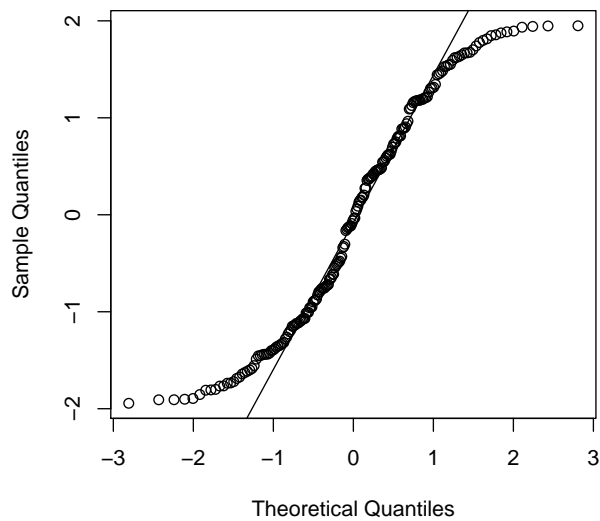


2.2: Diagnostics and Remedial Measures

Dr. Bean - Stat 5100

1. What happens if the assumptions regarding residuals are not satisfied?
2. You are running a Box-Cox transformation and the program returns no values...what happened?
3. Why would we ever want to make a transformation on an X-variable?
4. Why would graphical checks (scatterplots, normal probability-plots, etc.) of assumptions be preferred to numerical checks (BF-test of constant variance, correlation test of normality, etc.) of assumptions?

5. Below are two normal probability plots of residuals for a model. For which (if any) of the plots is it acceptable to assume that the residuals follow a normal distribution?



6. Based on the following output from a Box-Cox Analysis, which transformation would you recommend?

