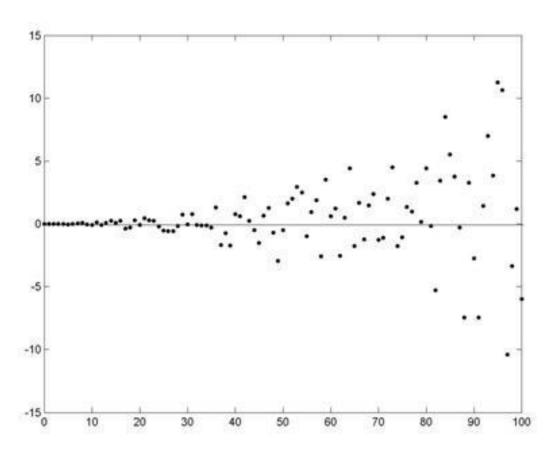
# LAB SESSION 11 – MULTIPLE LINEAR REGRESSION

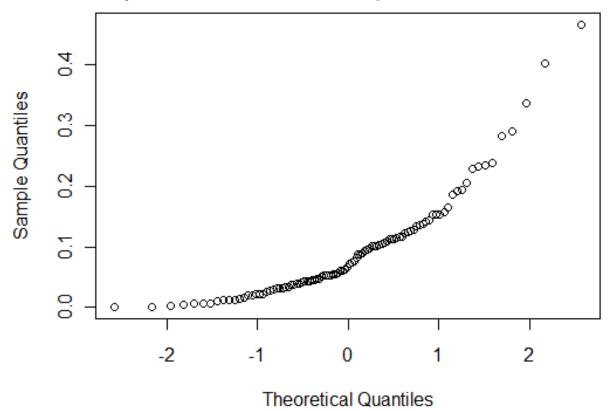
**Analytics Primer** 

# RESIDUAL ANALYSIS

 Which of the following assumptions appears to be broken based on the residual plot? Equal variance problem!



 Based on the following QQ-plot of the residuals from a model, what are your conclusions about the Normality of errors assumption? Skewness problem



- Mark each of the following as testing for either outliers or influential observations.
  - Cook's D Influential observations
  - DFBeta Influential observations
  - Studentized Residuals Outliers
  - Standardized Residuals Outliers
  - Leverage Influential observations
  - DFFits Influential observations

- What is the difference between an outlier and an influential observation?
  - Outlier too large of a residual
  - Influential observation observation that "drastically" alters the regression line