

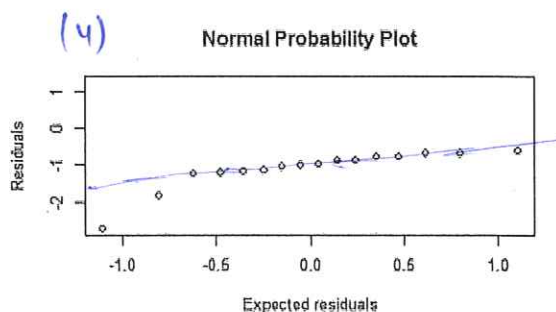
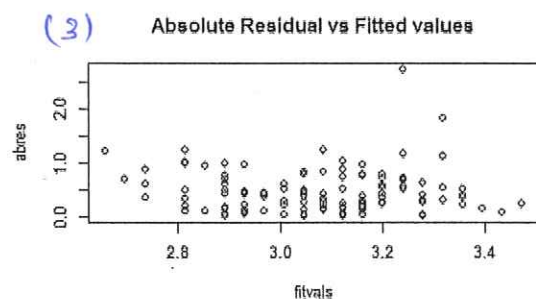
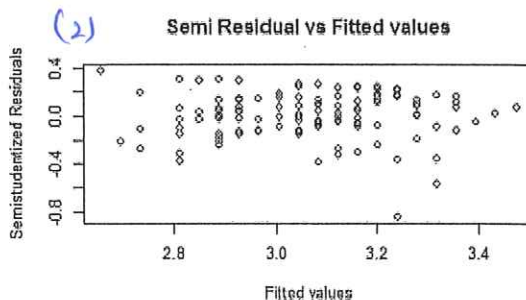
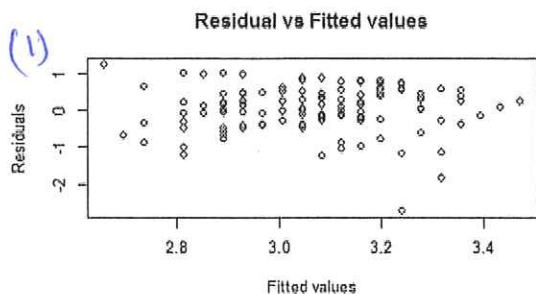
MA 542: REGRESSION ANALYSIS

QUIZ - 4

Name

Key

The following are residual plots for a fitted simple linear Regression model. Discuss the appropriateness of the fitted SLR model using these residual plots. (i.e., check all model departures you can using these plots)



* Since points in plot (1) are in a horizontal band around 0 and also points in plot (3) are in a horizontal band, the regression function is approximately linear, and the error variance is approximately constant.

* Since there is no any pattern in plot (1), we can assume that error terms are independent.

* From plot (3), Since all the semi-standardized residuals are within -4 and 4, there is no any outlier.

* Since the Normal Probability is approximately linear, the normality assumption on error terms is OK.