

5) By observing the residuals vs the fitted values plot, we find that the range of y-axis is larger than the range of y-axis of the residuals vs the fitted values plot in question 4. To be specific, the range of y-axis in this plot is approximately from -2 to 3, but the range of y-axis in the residuals vs the fitted values plot in question 4 is approximately from -1 to 1. Furthermore, the unit of the y-axis changes from 0.5 to 1 because the range increases. Also, there is no observable pattern and the variance of the errors seems constant in this plot, which is the same as the comment of the residuals vs the fitted values plot in question 4.

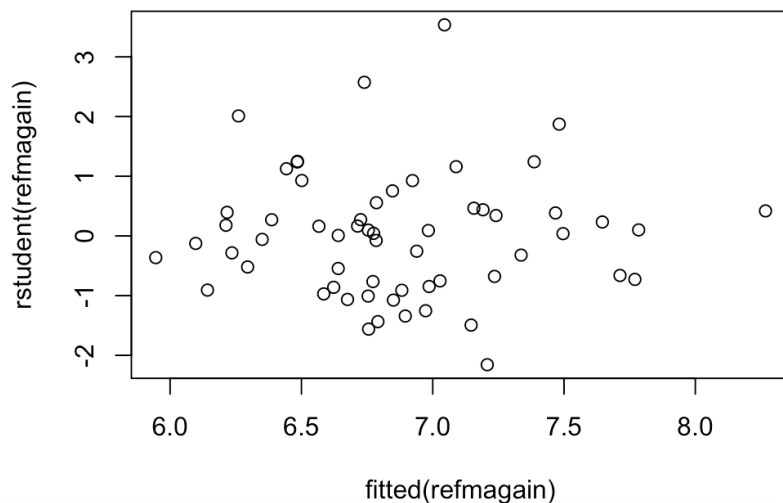
There are outliers present because there are points which the absolute value of studentized residuals larger than 2.5 based on the residuals vs the fitted values plot.

When observing the QQ plot, we find that there seems exist linear relationship and so it satisfies the assumption of Normality of the Errors. Also, the range of y-axis in this QQ plot is approximately from -2 to 3, but the range of y-axis in the QQ plot in question 4 is approximately from -1 to 1. Thus, the range of y-axis is larger than the range of y-axis of the QQ plot in question 4. Also, the unit of the y-axis changes from 0.5 to 1 because the range increases.

5)

```
plot(fitted(refmagain), rstudent(refmagain))
```

```
qqnorm(rstudent(refmagain))
```



Normal Q-Q Plot

