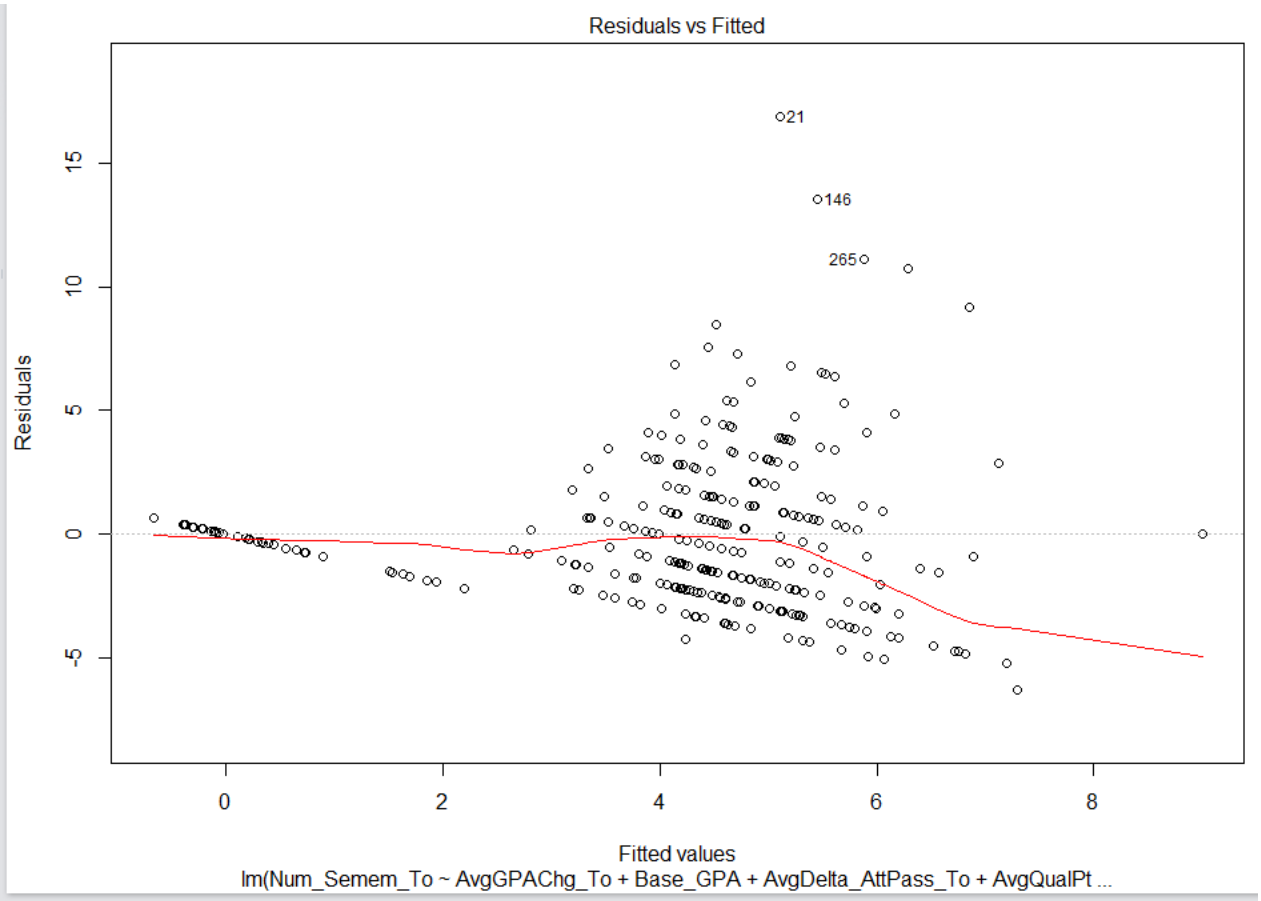
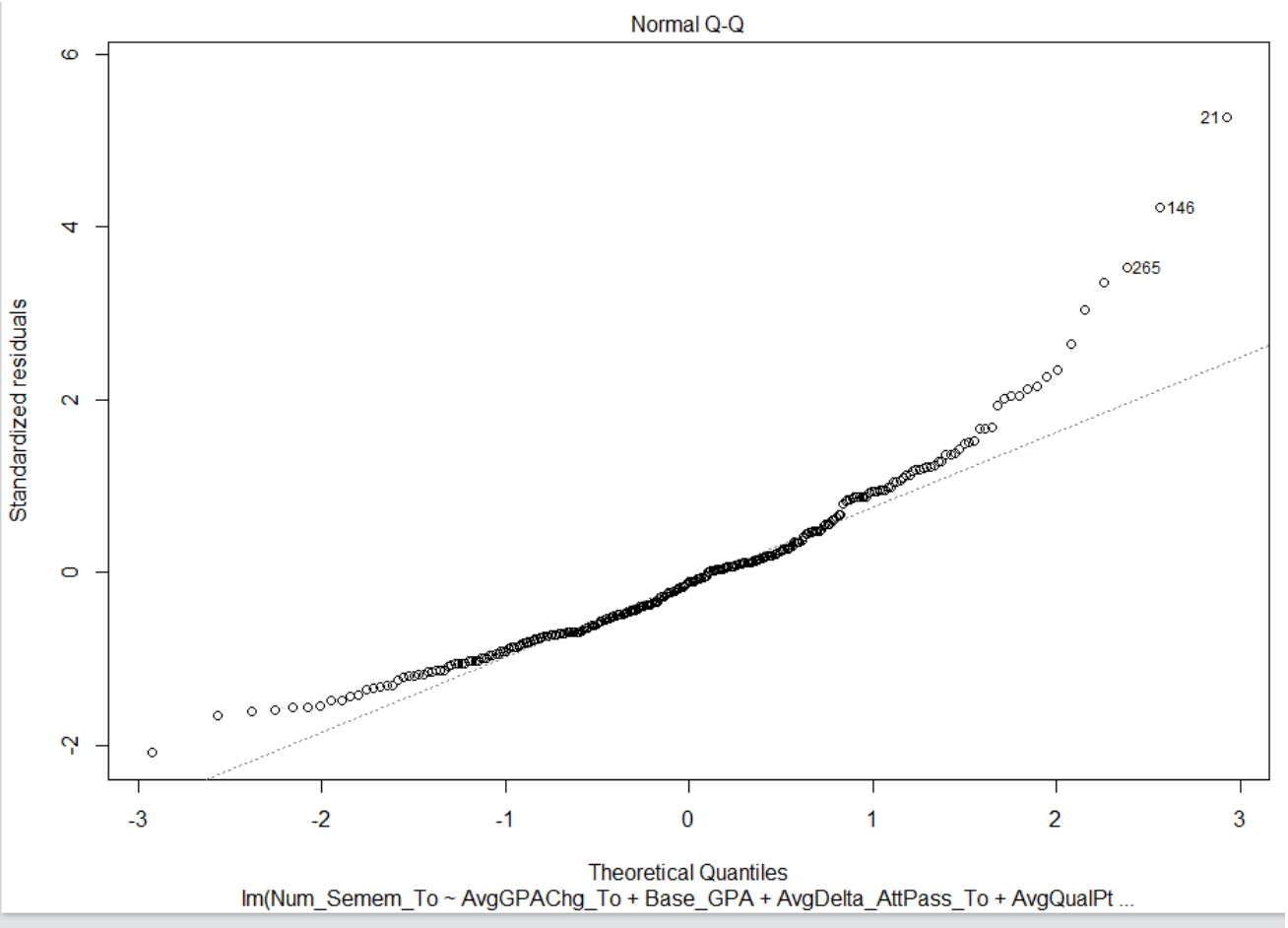
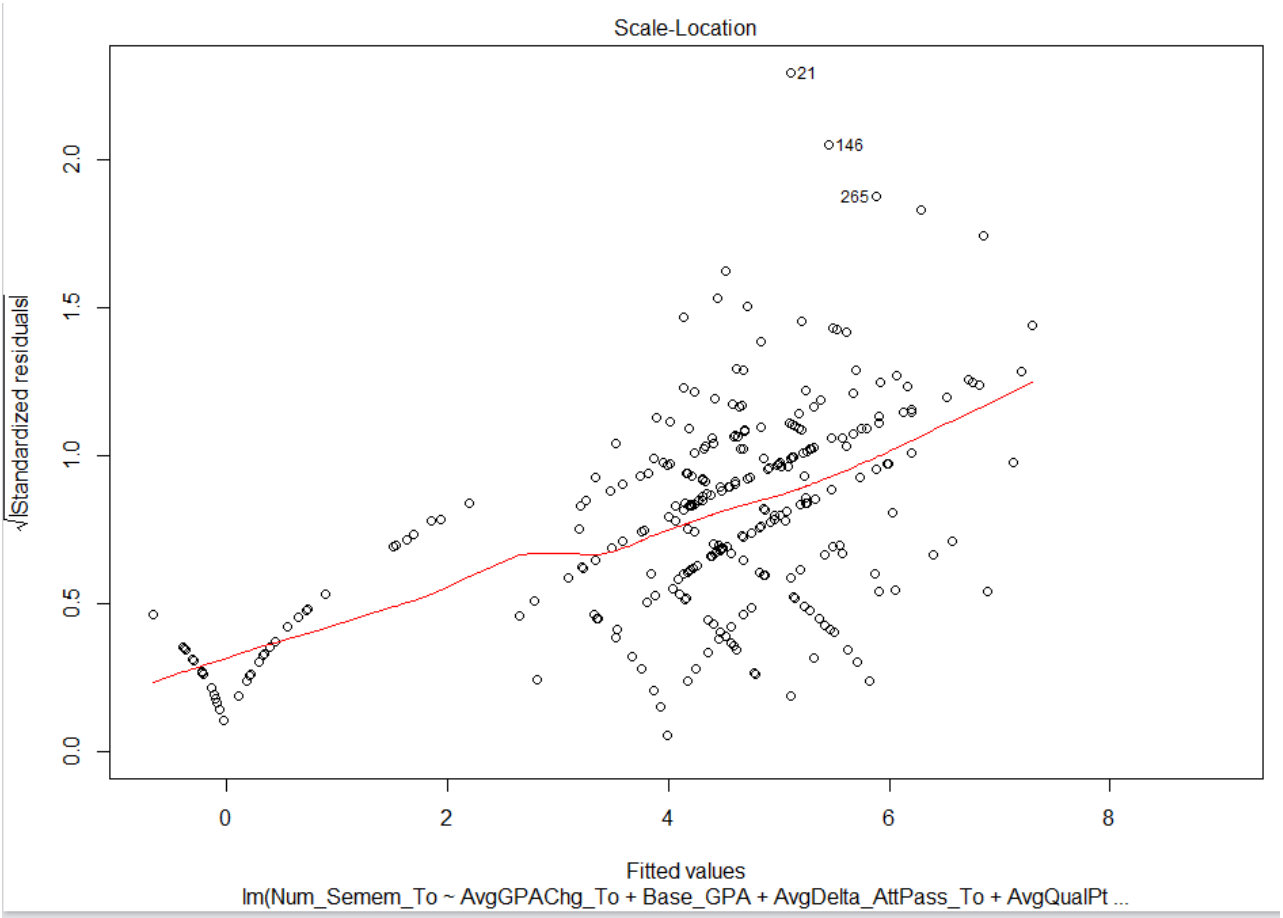
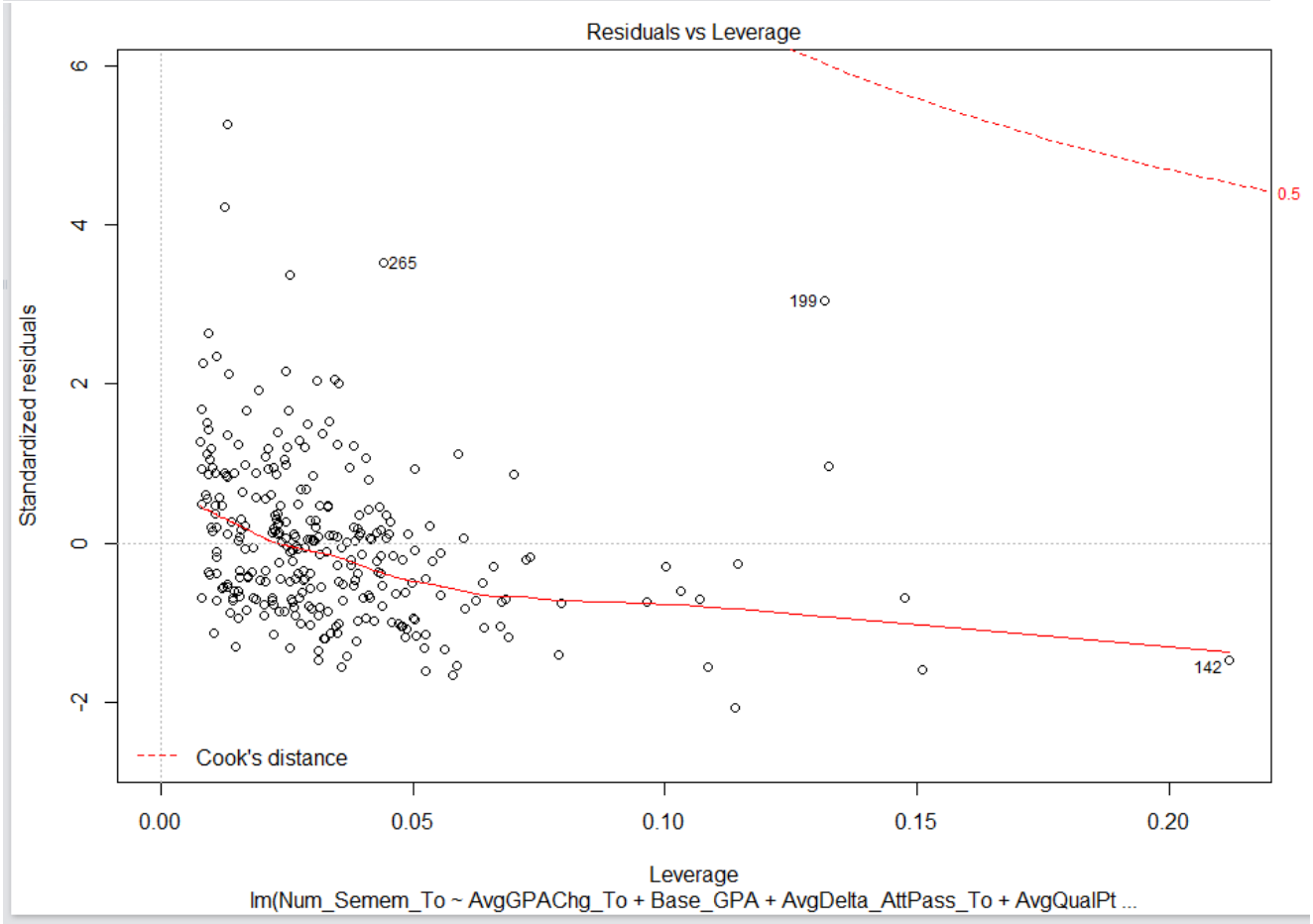
```
> fm<- lm(Num_Semem_To ~ AvgGPAChg_To + Base_GPA + AvgDelta_AttPass_To + AvgQualPts_To + AvgProGpa_To + Age + Race, data = Comp)
> coef(fm)
       (Intercept)        AvgGPAChg_To            Base_GPA AvgDelta_AttPass_To
       -0.157679954         0.373707866        -0.350222467         0.419670446
     AvgQualPts_To        AvgProGpa_To                 Age           RaceBlack
        0.002312124         1.275342790         0.088069632         0.425442264
      RaceHispanic          RaceIndian           RaceWhite
       -0.784484172         4.640008082        -0.584089551
>
```

```
> formula(fm)
Num_Semem_To ~ AvgGPAChg_To + Base_GPA + AvgDelta_AttPass_To +
    AvgQualPts_To + AvgProGpa_To + Age + Race
>
```


Residuals vs Fitted
Residuals
Fitted values
lm(Num_Semem_To ~ AvgGPAChg_To + Base_GPA + AvgDelta_AttPass_To + AvgQualPt ...
21
146
265


Normal Q-Q
Standardized residuals
Theoretical Quantiles
lm(Num_Semem_To ~ AvgGPAChg_To + Base_GPA + AvgDelta_AttPass_To + AvgQualPt ...
21
146
265


Scale-Location
21
146
265
√|Standardized residuals|
0.0
0.5
1.0
1.5
2.0
0
2
4
6
8
Fitted values
lm(Num_Semem_To ~ AvgGPAChg_To + Base_GPA + AvgDelta_AttPass_To + AvgQualPt ...


Residuals vs Leverage
0.5
265
199
142
Cook's distance
Standardized residuals
-2
0
2
4
6
0.00
0.05
0.10
0.15
0.20
Leverage
lm(Num_Semem_To ~ AvgGPAChg_To + Base_GPA + AvgDelta_AttPass_To + AvgQualPt ...

```
> summary(fm)

Call:
lm(formula = Num_Semem_To ~ AvgGPAChg_To + Base_GPA + AvgDelta_AttPass_To +
    AvgQualPts_To + AvgProGpa_To + Age + Race, data = Comp)

Residuals:
    Min      1Q  Median      3Q     Max
-6.3005 -2.2118 -0.3521  1.5119 16.8932

Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
(Intercept)        -0.157680   1.347873  -0.117 0.906956
AvgGPAChg_To        0.373708   0.384397   0.972 0.331790
Base_GPA           -0.350222   0.270245  -1.296 0.196058
AvgDelta_AttPass_To 0.419670   0.125148   3.353 0.000908 ***
AvgQualPts_To       0.002312   0.033839   0.068 0.945573
AvgProGpa_To        1.275343   0.385275   3.310 0.001054 **
Age                 0.088070   0.033681   2.615 0.009410 **
RaceBlack           0.425442   0.783457   0.543 0.587538
RaceHispanic       -0.784484   0.759625  -1.033 0.302620
RaceIndian          4.640008   3.370043   1.377 0.169658
RaceWhite          -0.584090   0.681027  -0.858 0.391811
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 3.229 on 281 degrees of freedom
Multiple R-squared:  0.2277, Adjusted R-squared:  0.2002
F-statistic: 8.284 on 10 and 281 DF,  p-value: 8.891e-12

>
```