work_1_3.R

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```
# source('clear.R')
fit <- lm(weight ~ height, data = women)</pre>
opar <- par( no.readonly=TRUE )</pre>
par(mfrow = c(2, 2))
plot(fit)
                                                       Standardized residuals
                                                                             Normal Q-Q
                  Residuals vs Fitted
                                             150
Residuals
                                                                                                10
      ^{\circ}
                                                                           0
      7
                120
                               140
                                                                                     0
                                                                                              1
                       130
                                      150
                                             160
                       Fitted values
                                                                          Theoretical Quantiles
/|Standardized residuals
                                                       Standardized residuals
                                                                       Residuals vs Leverage
                    Scale-Location
                                                                                                         1
0.5
            01
      1.0
                      0
                   0
      0.0
                                                                 0.00
                                                                        0.05
                                                                                0.10
                120
                       130
                               140
                                      150
                                             160
                                                                                       0.15
                                                                                              0.20
                       Fitted values
                                                                                Leverage
par(opar)
newfit <- lm(weight ~ height + I(height^2), data = women)</pre>
par(mfrow = c(2, 2))
plot(newfit)
```

