Homework 3 MTH 4230, Spring 2020

Due Wednesday, Feb. 19

Chapter in Book	Problems
2	2.29*, 2.30, 2.31, 2.32
3	3.8 (skip part <i>e</i>)**, 3.15, 3.16 (skip part <i>b</i>)

* For Problem 2.29, Part a, after reading the Muscle mass data into R using read.table(), you can obtain the residuals Y_i - Ŷ_i and the deviations of fitted values away from the mean Ŷ_i - Y by typing something like this:

```
> my.reg <- lm(mass ~ age, data = my.data)
> my.resids <- my.reg$residuals
> my.yhatdevs <- my.reg$fitted.values - mean(my.data$mass)</pre>
```

Then you can plot them using **plot()**. Don't forget to use the same scales via the **xlim** and **ylim** arguments to **plot()**.

** In Problem 3.8 Part *d*, for the correlation test for normality of the errors, you can mimic the following R code, then use Table B.6: