

Homework 8
MTH 3220, Fall 2019
Due Thursday, Nov. 14

For any problems that involve computations done by hand (i.e. not using R), you must **show your work** to receive full credit.

Section in Book	Problems
12.1	7
12.2	15 (skip part <i>a</i>), 16*, 17**, 20**
12.3	32***, 33, 34

* **Problem 16** can be done using R. The data are in the file **ex_12_16.txt**. The commands:

```
> plot(Runoff ~ Rainfall, data = my.data)
> my.reg <- lm(Runoff ~ Rainfall, data = my.data)
> summary(my.reg)
> anova(my.reg)
```

will plot the data, fit the regression model, and summarize the results.

** **Problems 17** and **20** can be done using R. The data are in the files **ex_12_17.txt** and **ex_12_20.txt**.

*** For the confidence interval in **Problem 32**, use a 95% level of confidence.