

### Homework 3

Due Thursday, February 20

Name: \_\_\_\_\_

To access the data from the Weisberg book *Applied Linear Regression*, follow the instructions on the following website to install and load the alr3 package, which contains the data from the book:

<http://users.stat.umn.edu/~sandy/alr3ed/website/R.html>

The data from the Pardoe book *Applied Regression Modeling* is in the file “Pardoe\_textdata.zip”, which I have sent you. The name of each dataset given in the text refers to the filename. For instance, Problem 2.1 references the “INTERNET” dataset, which is found in “internet.csv” in the .ZIP file.

1. **(20 points)** Complete Problem 2.1 from “Pardoe\_Ch2\_Probs.pdf”.
2. **(15 points)** Complete Problem 2.5 from “Pardoe\_Ch2\_Probs.pdf”.
3. **(10 points)** Complete Problem 2.7 from “Pardoe\_Ch2\_Probs.pdf”.
4. **(15 points)** Complete Problem 2.10 from “Pardoe\_Ch2\_Probs.pdf”.
5. **(20 points)** Complete Problem 2.2 (without 2.2.3) from “Weisberg-ch2.pdf”.