Homework 2

Stat 151A, Spring 2014

Due Thursday, February 20th

- 1. (15 points) Problem 9.6 in Fox
- 2. (40 points) Problem 9.14 in Fox. Note that all the values you need for (c) and (d) are given in the section 5.2.
- 3. (15 points) Show that in the linear model, the square of the (sample) correlation between the response values $(y_1, ..., y_n)$ and the fitted values $(\hat{y}_1, ..., \hat{y}_n)$ equals the coefficient of determination, R^2 .
- 4. (15 points) Problem 11.1 in Fox