Assignment #6, Stat 5511, Spring, 2008

Due on Monday, April 7

(1) Do problem 4.2 (a, b, c, e) on p.153.

(2) Do problem 4.4 (a, b, d) on p.153/4

(3) Do Problem 4.7 on p.154.


(5) Consider the “soft drink delivery“ data in the text book, we know data point #9 is an unusual point.
   a) Fit a model with all data points (you may use the handout in class).
   b) Fit a model with all data points except point #9 and calculate all the residuals (i.e., residuals, standardized residuals, studentized residuals and PRESS residuals).
      What is the PRESS.
   c) Comment on the data point #9. (you may use the handouts from class).

(6) Optional.
   Prove that
   \[ e_{(i)} = e_i / (1-h_i) \]. (see Appendix C.7)