

AM 166: Homework # 4 (due Tuesday, March 13)

The book we refer to is Wackerly, Mendenhall & Scheaffer, *Mathematical Statistics with Applications* (6th Edition).

1. For problems in this homework, you may want to use STATA to carry out the computation or draw the graph.
2. Solve Problems 11.61.
3. Solve Problems 11.62 (b)(c) [ignore part (a)]. For part (c), note that the problem is asking you to do separate hypothesis testing for: $H_0 : \beta_1 = 0$, $H_0 : \beta_2 = 0$, $H_0 : \beta_3 = 0$, and $H_0 : \beta_4 = 0$. If you can get exact p-value from software, do it. Otherwise, use the table in the back of the book to give bounds on p-value.
4. Problem 11.80, 11.82.