Statistics 630 - Assignment 4
(due Wednesday, October 1, 2014, 11:59 pm)

Instructions:

- The textbook exercises are in the book by Evans and Rosenthal. This assignment covers material from Chapters 2 discussed in Lectures 10–12.
- Whether you write out the solutions by hand or in a text document, be sure that they are *neat, legible and in order* (even if you choose to solve them in a different order).
- **Type** your name, email address, course number, section number and assignment number at the top of the first page (or cover page).
- Either scan or print your solutions to a **PDF** file under 15MB in size. It must be in a *single* file, not separate files for separate pages. Name the file using your name (for example, I could use twehrly630hw01.pdf) to avoid confusion with other students and/or assignments. *Do not* take a photo of each page and then paste them into a document – this will make your file too big and the results will generally not be very readable anyway.
- Login to your WebAssign account to upload your file. You must do this by **11:59 pm U.S. Central time**, *according to the WebAssign server*, on the due date. We highly recommend that you start the upload at least 15 minutes earlier. You can make multiple submissions, but *only the last submission will be graded*.

Answer the following problems from Chapter 2:

2.7.3, 2.7.4ad (change the range to $0 \leq x \leq 2,\ 0 \leq y \leq 1$ in part (d))

2.7.9, 2.7.10 (You may apply the result in problem 2.7.13 without proof.), 2.7.16

2.8.1, 2.8.2, 2.8.5abc, 2.8.7ad (change the range to $0 \leq x \leq 2,\ 0 \leq y \leq 1$ in part (d)), 2.8.10, 2.8.15, 2.8.23 (use the result of 2.8.22 without proof), 2.8.24

2.9.7, 2.9.14 (to simplify the calculations, you may assume that X and Y are independent N(0,1) variables)