

# STAT 405-01: Mathematical Statistics I

## Problem Set 6

Assigned 2015 October 8

Due 2015 October 20

**Show your work on all problems!** Be sure to give credit to any collaborators, or outside sources used in solving the problems. Note that if using an outside source to do a calculation, you should use it as a reference for the method, and actually carry out the calculation yourself; it's not sufficient to quote the results of a calculation contained in an outside source.

**1 Hogg 3.1.4**

**2 Hogg 3.1.8**

**3 Hogg 3.1.10**

**4 Hogg 3.1.16**

**5 Hogg 3.1.23**

**6 Hogg 3.1.26**

**7 Hogg 3.2.3**

**8 Hogg 3.2.7**

Note that unless R has got a lot better in the last two years, it's pretty awful trying to make an overlay plot. It's much easier in python.