

# STAT 405-01: Mathematical Statistics I

## Problem Set 4

Assigned 2015 September 15  
Due 2015 September 22

**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 2.3.3
- 2 Hogg 2.3.10
- 3 Hogg 2.3.11
- 4 Hogg 2.4.3
- 5 Hogg 2.4.7
- 6 Hogg 2.4.8
- 7 Hogg 2.5.6
- 8 Hogg 2.5.8