MATH 4600/6600

T. Shifrin

PROBLEM SET #12

DUE Friday, November 21, 2014.

Problems to work but not hand in:

Self-Test Problems and Exercises, Chapter 7: #4, 5, 24, 25.

To hand in:

Chapter 7: #5, 8, 14, 37, 48, 36*, 40, 53, 56.

Graduate problems:

Chapter 7, Theoretical Problems: #12, 17, 33.

^{*}Perhaps you have a better way, but if not ... Hints: Compute E[XY] by conditioning. To evaluate the sum you get, recall the formulas for expectation and variance of a binomial random variable, and do your algebra carefully.