

## MA381 Introduction to Probability, HW 11

**Instructions:** This homework will be collected at the beginning of class Thursday, Jan. 28. Some problems will be graded in depth; remaining problems will be awarded completion credit. Late HW's are not accepted.

**0:** Be sure to read chapter 8, section 8.1.

**1:** Do problem 1, pg. 325, as stated plus compute  $E[h(X, Y)]$  where  $h(x, y) = y^2/x$ .

**2:** Do problem 2, pg. 326 as stated plus compute  $E[h(X, Y)]$  where  $h(x, y) = x + y$ .

**3:** Problem 4, pg. 326.

**4:** Problem 7, pg. 326.

**5:** Problem 9, pg. 327.

**6:** Do problem 12, page 327, as stated plus compute  $E[h(X, Y)]$  where  $h(x, y) = xy$ .