

MA381 Introduction to Probability, HW 3

Instructions: This homework will be collected at the beginning of class Thursday, Dec. 10. Please put your campus mail address on your hw. Problems are to be done in order neatly. The pages are to be stapled together. Hw's not meeting these requirements will not be graded. Late hw's are not accepted.

Grading: Selected problems will be graded in depth; remaining problems will be awarded completion credit.

0: Be sure to read chapter 3, sections 3.1-3.3

1: Do problem 3, pages 82-83

2: Do problem 8, pages 82-83

3: Suppose we play the Monte Hall game with four doors instead of three. Everything is the same except that, after Monte opens up a door without the prize, there are now two doors left instead of just one. Compute the probabilities of winning the game under the two strategies: *stay with first door chosen* and *switch to one of the remaining doors*

4: Do problem 1, pages 87-88

5: Do problem 4, pages 87-88

6: Do problem 10, pages 87-88

7: Do problem 4, pages 96-98

8: Do problem 10, pages 96-98

9: Do problem 18, pages 96-98