

Hw1: Stat355, F 2016
Due September 14, 2016

Problems can be found on the scanned pages from chapter 2 that I uploaded in the course material section. The first set of problems is for practice, the second set will be checked by the grader.

1. Let the sample space contain the events $\{1\}, \{2\}, \{4\}, \{5\}$ with probabilities 0.1, 0.2, 0.3, and 0.4, respectively. Let A be a subset with three elements and B be a subset with two elements.
 - (a) Write down all the possibilities for A and B
 - (b) What is the probability that b contains at least one odd number?
 - (c) What is the probability that A contains the number 2?
 - (d) What is the probability that B is a subset of A ?
2. Section 2.1 (page 57) Problems 3, 7
Section 2.2 (page 65) Problems 15, 20
Section 2.3 (pages 73-74) Problems 31, 36, 41