

CSci 4554 Assignment 2

Due Friday, February 8th in class

Problem 1 (18 points). Exercises 3.1, 3.2 p. 82. Please show all your work.

Problem 2 (12 points) Consider throwing two dice, as in the previous problem. In which of the following pairs of events the two events are independent? Please justify your answer.

1. $E =$ “the two dice are the same”, $F =$ “the first die is an even number”,
2. $E =$ “the first die is larger than the second one”, $F =$ “the second die is 1”,
3. $E =$ “both dice are even or both dice are odd”, $F =$ “the first die is 3”.

Problem 3 (4 points) Exercise 3.3 p. 83.

Problem 4 (6 points) Exercise 3.5 p. 83.