CSE 312: Foundations of Computing II
Quiz Section #3

1. An urn contains 3 black balls and 4 white balls.

   (a) Suppose 3 balls are drawn from the urn without replacement. What is the probability that all 3 are white? Try computing this in the sample space where the order of the 3 draws does not matter, and then in the sample space where the order does matter.

   (b) Suppose 3 balls are drawn from the urn with replacement. What is the probability that all 3 are white? Describe the sample space precisely.

2. In Homework 2, exercise 8, there is an extra chance of winning the deal that is not taken into account.

   (a) Describe that extra chance.

   (b) Calculate how much that extra chance adds to your probability of winning the deal.