Math 262 Reading Guide

Section 2.8 NAME

Read Section 2.8 and answer the following questions. *Hand in this worksheet at the the next class.*

1. Example 2.52 describes a method for converting the a random number chosen "uniformly" from the interval $[0, 1)$ into the value of a discrete random variable X. How does this work?

2. What is the name of the method, utilized in Example 2.52, for simulating discrete random variables?

3. What does the `sample` function in R do?

4. This section introduces the R functions `rbinom`, `rpois`, `rhyper`, and `rnbinom`. What do these do?

5. How is a **sample mean** different from the mean of a random variable?