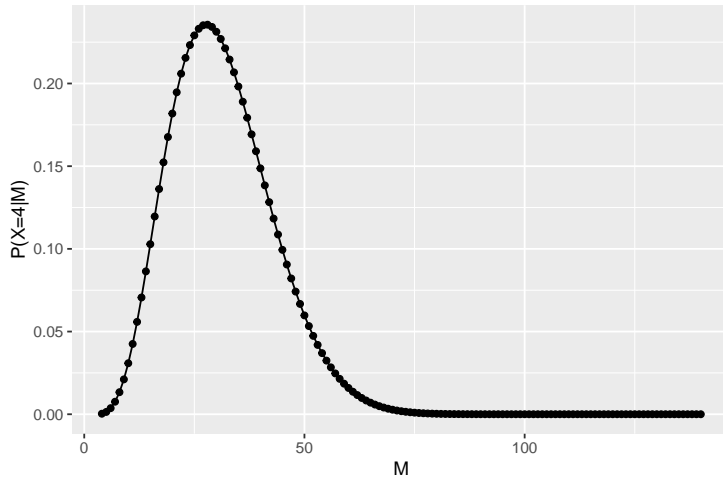
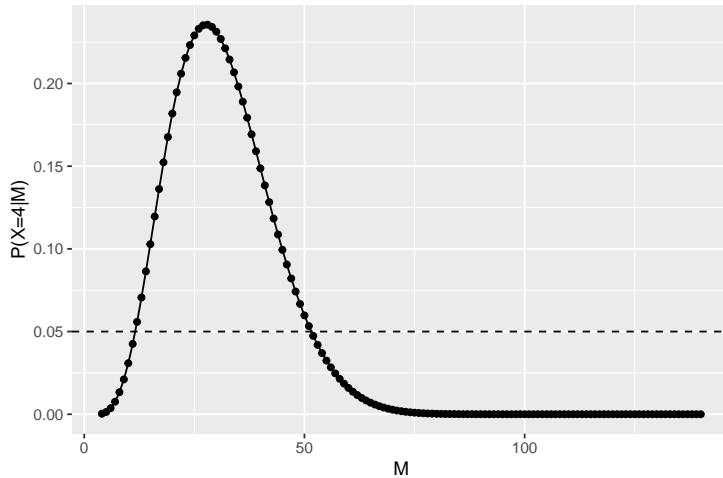
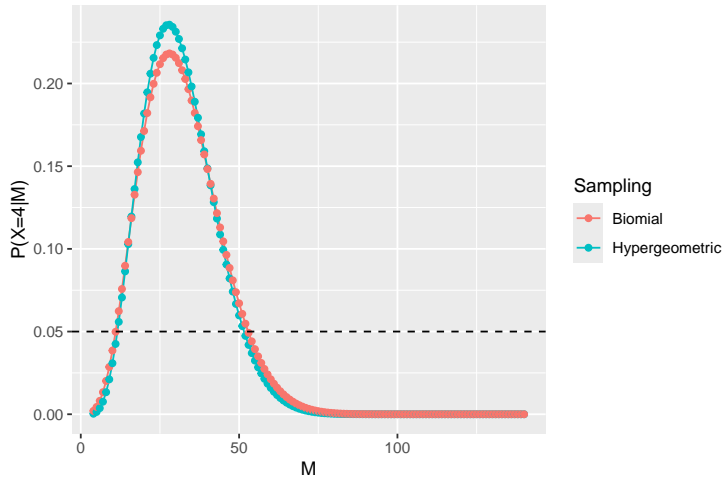


Probability and Statistics I

13. Discrete Distributions: Summary Exercise







Suppose that there are 40 mint chocolate candies in the population of 140 candies and we sample candies with replacement until we select 5 mint chocolate candies.

- Let X be the total number of candies you draw. What is the distribution of X ?
- What are the mean and variance of X ?
- Let Z be the number of non-mint chocolate candies you draw. What is the distribution of Z ?
- What are the mean and variance of Z ?
- What is the relationship between X and Z ?