CHAPTER 6: Continuous Probability Distributions

Learning Objectives

After reading this chapter and doing the exercises, you should be able to:

- Understand the difference between how probabilities are computed for discrete and continuous random variables.
- Know how to compute probability values for a continuous uniform probability distribution and be able to compute the expected value and variance for such a distribution.
- Be able to compute probabilities using a normal probability distribution.
 Understand the role of the standard normal distribution in this process.
- Be able to use the normal distribution to approximate binomial probabilities.
- 5. Be able to compute probabilities using an exponential probability distribution.
- Understand the relationship between the Poisson and exponential probability distributions.