

13. Consumer/Producer Surplus

- Find consumer and producer surplus assuming production and price correspond to the equilibrium of supply and demand. (p. 474 Example 3)

14. Constructing Probability Density Functions

- Determine the value of k needed to make $kf(x)$ a probability density function on a specified domain.
 - closed, bounded domain (p. 497 Example 7)
 - unbounded domain (Fall 2013 Test 3 #3)

15. Using Probability Density Functions

- Given a probability density function, compute the following:
 - $P(a \leq X \leq b)$ (p. 500 Example 10, Fall 2013 Test 3 # 4)
 - mean (p. 506 Example 1,2)

16. Normal Distribution

- Convert a normal random variable to standard normal and use table to determine the probability of some event. (p. 509 Example 3, p. 511 Example 4, Fall 2013 Test 3 # 4)