HW #2

100 Points

DUE: Friday, 3/6

Instructions: Your solutions to questions 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, and 12 should be handwritten or typed and turned in at the beginning of class on Wednesday, March 4th. Questions 4 and 13 should be completed using R, and your code should be submitted via the Assignments -> Ch.6 HW (R Code) page on Canvas.

6.1

1. 6.1 #2

2. 6.1 #4

3. 6.1 #6

4. Files -> Homework -> Review Unit -> RHW2\_Q4.R

6.2

5. 6.2, #15

6. 6.2, #16

7. 6.2, #19

6.3

8. 6.3, #27

9. 6.3, #32

10. 6.3, #33

6.4

11. 6.4 #51

12. Let . Furthermore, let . What is the distribution of ? Be sure to prove your answer.

13. Write a simulation that visually depicts (through a plot of the pdf) the relationship described in 6.4, Proposition I. (Hint: use the density() function.)