

## STAT 150 HOMEWORK #8

SPRING 2024

**Due Friday, Mar 22nd, at 11:59 PM on Gradescope.**

Note that there are *Exercises* and *Problems* in the textbook. Make sure you read the homework carefully to find the assigned question.

1. Durrett, Exercise 2.36
2. Durrett, Exercise 2.59
3. Durrett, Exercise 2.61
4. Pinsky and Karlin, EXERCISE 7.5.1
5. Pinsky and Karlin, Problem 7.5.2 (you can leave your final answer as a ratio of two integrals).
6. Pinsky and Karlin, Problem 7.5.4
7. Durrett, Exercise 3.5
8. Durrett, Exercise 3.9
9. Durrett, Exercise 3.12
10. Durrett, Exercise 3.18 (a) (no need to do part (b) since the roots of the derivative cannot be easily found)