

## STAT 150 HOMEWORK #7

SPRING 2023

**Due Friday, March 17th, 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. Pinsky and Karlin, Problem 5.3.6
2. Pinsky and Karlin, Problem 5.3.8 (Note: do not simply cite the density of a beta distribution. The point is to derive the density from properties of the Poisson distribution.)
3. Pinsky and Karlin, Problem 5.4.1 (Note: this requires the assigned reading I mentioned on the schedule. Alternatively, if you understand conditional densities, then you will be fine.)
4. Pinsky and Karlin, Problem 5.4.4
5. Pinsky and Karlin, Problem 5.4.5
6. Pinsky and Karlin, Problem 5.4.6
7. Pinsky and Karlin, Problem 5.4.7
8. Pinsky and Karlin, Problem 5.4.9