

Math 342, Spring 2024 — Homework 8

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Due April 12 at 5:00 pm

Instructions. This problem set contains problems from Weeks 10 and 11 of class. The problem numbers refer to our textbook, *Probability with Applications and R*, by Amy Wagaman and Robert Dobrow, 2nd edition.

Problem 1. Do the following textbook problems and submit on Gradescope: 6.26, 6.27, 6.28ac, 6.30, 6.34, 7.4, 7.6, 7.10. You may use Wolfram Alpha to do your integration after setting up the integrals but make sure you can do these kinds of integrals by hand on a quiz or exam.

Problem 2. If you liked the problems above or want more practice, our textbook has more great problems. The odd-numbered ones have solutions in the back. Here are some that I recommend (as optional, not to be turned in): 6.25, 6.29c, 7.3, 7.5, 7.7. Feel free to try others, including all the problems in the main sections, which include full explanations.