

Math 342, Spring 2024 — Homework 3

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Due February 16 at 5:00 pm

Instructions. This problem set contains problems from Week 3 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: 2.6, 2.12, 2.14 (use the law of total probability instead of a tree diagram), 2.28, 2.30, 2.34, 3.6, 3.10

Problem 2. Do parts a. and c. of Exercise 2.42. You should do your work in the [Homework 3 RMarkdown file](#). For your submission, you should knit the file to pdf.

Problem 3. 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): 2.7, 2.11, 2.17, 2.27, 2.31, 2.33, 3.9. Feel free to try others, including all the problems in the main sections, which include full explanations.