

Math 342, Fall 2024 — Homework 6

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Due October 25 at 5:00 pm

Instructions. This problem set contains problems from Week 6 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: 4.12, 4.18, 4.26, 4.27, 4.32, 4.34, 5.14, 5.17 (look at Example 5.5 and the worksheet on moment generating functions as you think about this problem), 5.18.

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): 4.17, 4.19, 4.25, 4.29, 5.13, 5.15. Feel free to try others, including all the problems in the main sections, which include full explanations.