

Homework 10

Math 469, Spring 2024

This homework is due on **MONDAY**, April 1 at 11:30 am. (Turn in your answers – via Gradescope – to questions 1–3.)

0. Read Sections 4.7–4.8.
1. Section 4.12 # 13, 14, 15
2. (a) In several sentences, describe the main message of Friday’s lecture (March 22).
(b) In several sentences, describe the main message of Monday’s lecture (March 25).
(c) Propose a homework problem arising from the topics covered in those two lectures. Solve it.
3. (This part of your homework pertains to your final project) *You may write this together with your project partner.*
 - (a) Review the comments you have received on the related writing assignments (Homeworks 5 and 7).
 - (b) Write a **draft of three sections¹ of your final paper**: (1) the INTRODUCTION (what mathematical/scientific questions does the article you read address? what are the objectives?), (2) the (mathematical/scientific) BACKGROUND, and (3) RESULTS (where you will state one main result from the article and then interpret and explain its significance). For full credit, you must implement the recommendations you have already received.
 - (c) SUBMISSION - PART 1. You or your partner must upload the draft to Gradescope (the draft must include your name and your partner’s name). If your partner turns in the draft, state this clearly in your Gradescope submission.
 - (d) SUBMISSION - PART 2. *Please print $n + 1$ copies of your draft, if you are a team of n students, and bring it to class on Monday, April 1. As part of a future homework, each student, plus the instructor or grader, will critique another student’s draft.*

¹Use section titles to organize your paper!