

Math 419-01, Written Problem Set for Chapter 3

This assignment is due on October 20, at the beginning of class.

If, for any reason, you would like an extension on the assignment, please discuss this with me before the assignment is due.

To create your written problem set:

1. Choose 14 exercises to write up nicely:
 - (a) Pick 10-12 problems from the list of selected discussion problems, at least one from each class day.
 - (b) Pick 2-4 challenge problems from Chapter 3.
2. Write up each problem nicely, making sure to restate the problem and provide a full explanation.
3. Identify one of the problems that was particularly interesting to you, and write a short paragraph about what you found interesting in the problem.
4. Identify one of the problems that you struggled with, and write a short paragraph about what caused you difficulty in the problem and how you resolved the difficulty.

****Note:** These are a few changes to the challenge problems from the hand-out I gave on the first day.

- The challenge problems for Section 3.3 are #4, 6. (You may use #5 to do #6, but #5 itself is nothing but an observation.)
- Additional challenge problem for Section 3.5: #2.
- Challenge problem for Appendix 3.1: #3 on the hand-out.

Selected Discussion Problems:

Section 3.1: 3.1.1 # 2,4 3.1.2 # 4

Section 3.2: 3.2.1 # 3, 3.2.3 # 1, 2

Section 3.3: # 7, 8

Section 3.4-I: 3.4.1 # 10, 11

Section 3.4-II: 3.4.2 # 4, 5, 6 (Remember that #5 has a typo.)

Section 3.4-III: 3.4.3 # 1, 2, 3, 6a

Section 3.5: #4

Appendix 3.1: # 1, 2

I will add the selected problems section by section, after we cover the material in class.