

Mathematics 19
Introduction to Set Theory
Winter 2020
Homework

There will be three kinds of homework in Math 19.

(1.) Reading assignments are assigned each class and due the next class. Reading assignments will sometimes include written problems. These problems are due when the reading assignment is due, and should be turned in at the beginning of class. They will be graded credit or no credit, and you will get credit if you have made a serious attempt at all the problems, whether or not your solutions are correct.

Bring any questions about the reading to class. I am happy to answer questions, and to clarify any part of the reading that was hard to understand. If there are no questions, I assume everybody understood it all completely.

(2.) There will be occasional proof-writing problems. Ordinary homework will also entail writing proofs, but the problems in this category are specifically assigned to work on writing. They will be graded credit or no credit, and to get credit, your proof writing must have no gaps or errors and be clear and easy to understand. On the other hand, if you don't get credit, you will be able to rewrite your proof until you do.

(3.) Ordinary written homework will be assigned each class day, and due in class on the following Monday. This homework will be graded on both the completeness and correctness of your mathematics, and the completeness, correctness, and clarity of your writing.

The way the honor code applies to homework in Math 19 is spelled out in the syllabus. Basically, you are encouraged to collaborate, but you must write up your solutions yourself.

For proof-writing problems, you must of course do the writing yourself. You may collaborate on how to solve the problems. You may also have anyone else read your proof and give feedback and suggestions, and I encourage you to do this for each other.

See the back for the first homework assignments.

Homework assigned Monday, January 6:

Reading (due Wednesday, January 8): Read Chapter 1, Introduction, pages 1-16. Do exercise 7 on page 9.

Written homework (due Monday, January 17): Exercises 2, 3, and 4 on page 7.

Proof-writing homework (due Monday, January 17): Exercise 35 on page 34.