

Test I review for Math 189, section 3, fall 2021

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The intention of highlighting these problems is to indicate what skills you need to succeed on the test. Of course there isn't going to be a question like each one of these problems on the test. The test will have somewhere between 8 and 12 problems. You will be allowed one standard sized sheet of notebook paper with whatever you like written or printed on it.

section 1.1: There isn't a lot here that won't be included in subsequent sections.

section 1.2: 1.2.3, 1.2.4 1.2.5 are good problems to review.

section 1.3: 1.3.4, 1.3.5, 1.3.6 are relevant problems.

section 1.4: 1.4.1, 1.4.2, 1.4.3.

section 1.5: You will have the table of rules for section 1.5 attached to your test. 1.5.1, 1.5.2, 1.5.3 are relevant.

section 1.6: 1.6.2, 1.6.3, 1.6.4.

section 1.7: 1.7.4, 1.7.6, 1.7.9

section 1.8: 1.8.1, 1.8.3, 1.8.4

section 1.9: 1.9.2, 1.9.3, 1.9.4

In the manual of logical style: you will have a summary of the rules of the proof system in the manual attached to your test. Problems 1,2,3,6,7 in the first exercise set and problems 1,2,3 in the second exercise set are good for study. Please notice that solutions for both exercise sets are now visible.

I am more likely to ask for proofs of implications than biconditionals for reasons of space and time on the test.

section 2.1: No problems for the review. Definitions you need at the test will be provided. That doesn't mean that you shouldn't study and think about the ones likely to be used.

section 2.2: section 2.2.2, section 2.2.3, section 2.2.4 (you all did not do well on this on the homework, remind me to talk through it in class), section 2.2.5.

section 2.3: 2.3.1, 2.3.2, 2.3.3. I don't know yet how you did on these or to what extent I'm likely to write partial or error infested proofs and ask you to fix them.

section 2.4: 2.4.1, 2.4.2, 2.4.4. Be aware that I may have you prove theorems about divisibility, which do appear in the book and have been done in class: the style issues are similar to those in 2.4.1. I am not going to ask for 2.4.3 style problems.