

MATH122 200610 Midterm Test 1 Study Guide

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Midterm Test 1 will take place on Wednesday, February 15 during the regular lecture time. The test will be 50 minutes long and will be out of 50 marks.

The midterm will test the material in chapter 1 we have covered: chapters 1.1 through 1.9, with the exception of economics and flows in chapter 1.6. Furthermore, you do not need to memorize the proofs in chapter 1, although I do encourage A students to try to read and understand the proofs.

I recommend you take the following steps to help you prepare for the midterm.

1. Do as many of the extra exercises listed at the end of each problem set as necessary for you to understand the material. You should not set a limit on the number of exercises you try; rather you should do similar exercises (make up your own if you run out) until you know the procedures by heart. The online solutions to the problem sets give model solutions for the most common types of problems.
2. In order to consolidate your understanding of the concepts of chapter 1, I recommend you do each of the true/false questions in chapters 1.1–1.9. The true/false questions can be found around exercise 20 or so in each chapter.
3. In order to consolidate your understanding of the concepts of 1–1 and onto I recommend you prepare four sheets of paper, one for each of “ T is 1–1 means ...”, “ T is not 1–1 means ...”, “ T is onto means ...”, “ T is not onto means”. Understanding all the different equivalents to those statements will go a long way toward filling in your knowledge of the material.
4. After you’ve done all that, try the supplementary exercises to chapter 1, questions 1–24. These questions are harder than the questions within the chapter, so if you can do these, you’ll be quite well prepared for the test.
5. Try the sample midterm on the web site under timed conditions. I think it is a little too long; I will probably put only 4 questions, not 5, on the actual midterm.