MATH THOUGHT
DR. GRAHAM-SQUIRE

TEST 2 REVIEW

- The test will be about 7-10 problems, most of which will be proofs. You will have the entire period for the test, though it may not take you the full 90 minutes. There will also be 1-2 questions that you will do as a take-home portion.
- The test will cover everything that we have studied so far, but will focus on sections 4.1 to section 6.5. Thus although proof by contradiction was on the first test, you might still need to use a proof by contradiction on *this* test to prove something about functions, for example. You should know the basic definitions, but beyond those there is not a lot of "memorization". The main question is "can you write an understandable proof?", and that is more a process you need to understand than it is something which can be memorized.
- Unless otherwise specified, you can use anything that we have proved in class or in homework as a part of a proof on the test. Some exceptions would be if in the question it specifically says that you have to use the *definitions*, or if the question is exactly the same as one that we proved in class or on homework. If you are unsure at any point in the test if you can use something or if you need to prove it, just ask me.
- The best way to study for one of my tests is to do practice problems, especially ones that you have not seen before (since those are the kinds of problems you will see on the test). I recommend you work on the recommended problems from each section (the ones listed on the lecture notes, especially the ones that you did NOT do for homework). You can also read over the textbook, your notes, and rework HW problems and quizzes. It might also be helpful to try to answer the "Preview Activities" listed in the textbook–the answers to all of those are in the Appendix of the textbook. Lastly, at the end of each Chapter is a Review section–it might be useful to look over those to make sure you understand the main concepts that have been covered.
- We will have some time for review at the end of the class before the test (Wednesday)–you should come prepared with questions. If you have no questions, I will expect you to spend the time in class working on review questions on your own or in small groups.