**MATH 3770, How to prepare for the tests**

**Midterm 2**

You are responsible for all of the material covered in this course since the beginning of the semester. The Midterm 1 was on 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 3.1 and 3.2. The Midterm 2 will be on sections 3.1, 3.3, 3.4, 4.1, 4.2, 4.3, 4.4. The questions from section 3.4 are about finding answers (with some justification), answering true/false, but without proofs. The proof type questions may come from all of the other sections. 4.4 is limited to the lecture material on 11/1/2019.

Your preparation for your exams should include the following.

1. Learn all correct solutions of the assigned HW problems, even if some of them are not to be handed in.
2. Learn all examples and exercises done in class.
3. Learn all proofs done in class unless they are specifically excluded by announcement in class.
   1. You will need to reproduce some of the proofs in the test.
   2. Make sure to learn all the proofs specified with stars (\*)-(\*\*\*\*\*) (if any) in the class notes.
   3. Even if a proof a theorem is excluded, you are still required to know its statement and its applications.
4. Learn all definitions, since you need to know them to do problems in the test. You may need to state them in the test.
5. Learn the statements of the theorems precisely. Especially, you may be asked to state (and prove) some named theorems, definitions and axioms in the test.
6. Do not expect the questions to be identical to those in 1-5 above; there can be some differences.
7. The old tests are available in 2018 Fall Math 3770 web page. They may give you an idea about your test. However, they are tests for a similar but another class given during another semester. You should not expect an identical test. There will be differences between your test and the old tests. For that reason, your preparation must go beyond studying the old tests.