

MA 162 - Exam #1 Study Guide

This document is intended to help guide your studying for the Exam on 9/22/2014. It will mostly contain references to other places on the course webpage or the textbook so if you have been keeping up with course then you already have a good start to your studying!

Please read the announcement posted on (Sept 16th) on the course website for some beginning information on the Exam. In particular, I will reiterate that this is the first time I have written exams for this course. This means there are not any previous exams that **I have written** to help you study. You may be able to find previous exams that someone else has written, but I can not guarantee that they will cover exactly the same topics or cover topics in the same order we are. Use any exams you find this way with caution.

This list may not be all inclusive and everything on here will not necessarily show up on the exam, but this is a good starting point for your studying. You should not expect the exam to be all problems you've already seen with only the numbers changed. Here are some things you can do to prepare for the exam:

Study the Lecture Notes: Completed versions of all the notes from class have been posted on the website. In general, these are posted a few days after the lecture in which we cover the topic and they will always be up in time to help you study for the exams.

Review the Homework and Recitation Materials: All the homework problems are intended to prepare you for the exams. The recitation worksheets are also intended to prepare you for the exam. Some solutions to these will be posted Friday, September 19th.

Do Practice Problems from the Book: There has been a list of practice problems from Chapter 1 posted on the course webpage since we finished Chapter 1. Practice problems from Chapter 2 were added to the website late Thursday, September 18th evening. These problems give a good range of types of problems that you could be asked. If you do not feel comfortable with a particular type of problem, then do more of them even if they aren't on the list. There will almost always be more problems of each type in the book that are not on the list of practice problems. Here is a list of the practice problems that are listed on the course webpage:

- Section 1.1: 7-12
- Section 1.2: 11, 12, 75, 77, 79
- Section 1.3: 11, 15, 29, 33, 41, 47
- Section 1.4: 11, 13, 15, 25, 29
- Section 2.1: 10, 14, 20, 24, 33, 42
- Section 2.2: 2, 6, 14, 20, 28, 58, 60, 69, 78
- Section 2.3: 4, 7, 20, 32, 41, 46
- Section 2.4: 13, 14, 20, 26, 32, 48, 52
- Section 2.5: 10, 12, 20, 36 (parts a and b only), 40, 42, 55

Things in the Sections we've done in the book that won't be on the exam: Again, everything not on this list will not necessarily show up on the exam, but the things on this list definitely will not be on the exam.

- Section 1.1 - Distance Formula, Equation of a Circle
- Section 2.4 - Transpose of a Matrix
- All "Using Technology" sections

Exam Format: The exam consists of ten questions (some with multiple parts). There is a mix of short answer, true/false, and multiple choice that will not require much, if any, work or explanation. There are also some questions which will require a large amount of work and/or explanation. The exam is two hours long.