

# MATH 3110: Prelim 2 Practice Problems

November 8, 2016

## 1 General Guidelines

These are some guidelines on how to prepare for the second prelim exam.

As said before **Questions** in your textbook are very good to test your understanding of the material. They should all be doable, so if you look at one and can't figure out how to do it, you know a place you can study.

Another good way to test your understanding is to make sure that you can do the homeworks without looking at the book or any solutions (either your own or the official ones).

## 2 Practice Problems

Of course, the best way to test your understanding is to attempt problems that you have not tried before. While the **Problems** are a little too tricky to have as problems on the midterm, I think that either the **Questions** or one of the **Exercises** are simple and straightforward enough to test on a midterm exam.

These refer to the **Exercises** at the end of the Chapter in Mattuck that I think are good problems that I think a top-performing student in the class should be able to solve without too much difficulty. They mostly consist of examples, since those kinds of problems were not really tested on the homework assignments.

12.1/4

12.1/5

12.2/3-4

13.1/2  
13.2/1  
13.5/5-6  
14.1/1-4  
14.2/4-5  
14.3/1-3  
15.1/1-4  
15.2/1,3  
15.3/1  
15.4/1-4  
16.1/1,3  
16.2/1, 3, 4  
17.1/1  
17.2/4  
17.3/1-3  
17.4/1  
18.1  
18.4/1-2  
19.2/1, 3  
19.3/2,3  
19.4/1-4  
20.1/1  
20.2/1, 2 ,4  
20.3/1, 3, 5  
20.6/1-3  
21.1/1-3  
21.2/1-3  
21.4/1,3