

## Math 112-40, Mr. Church

Studying for the first midterm: questions from the book.

I have divided up all the questions from the textbook according to which would be good to study. These are not exactly recommendations (I don't really think you need to review Exercise 1.3 and 1.4), it's just a rough guide as to which questions are too hard or too easy to look at.

**Good.** These questions would be good ones to study. Some are more important than others, of course, but you should be able to do all of them. I have bolded the questions that would be best to start with (these tend to be questions that have not appeared on the homework).

- Chapter 1: 3, 4, 5, 7, 9, 10, 11, 12, 13, 14, 15, 16, **17**, 18, 19, **20**, **21**, **24**, 25, 28, 29, 30, 31, 33, 39
- Chapter 2: **1**, 2, **3**, **4**, 7

**Difficult.** These questions are too difficult and even though some are interesting, they would not be an efficient use of your time.

- Chapter 1: 6, 22, 23, 26, 35, 40, 41
- Chapter 2: 6, 8, 9

**Basic.** These questions are too basic to be worth looking at, or are stated too imprecisely.

- Chapter 1: 1, 2, 8, 27, 32, 33, 34, 36, 37, 38
- Chapter 2: 5

Exercises 2.10 through 2.22 cover material that will not be on the first midterm.

**Practice problems.** All the practice problems are useful, because you can compare your answer with the solution in the book. These are the ones I think are most useful.

- Chapter 1: 4, 7, 8, 10, 12, 13, 18, 19, 22
- Chapter 2: 2, 4

**Note regarding axioms and theorems.** On the midterm, I will provide a sheet listing all the axioms we have seen (together with their definitions), and also Theorems 2.1, 2.2, 2.3, and 2.4.