

**MATH 109 WINTER 2007 HOMEWORK 4, DUE 2/2/07  
IN CLASS**

(All exercise and page numbers refer to Eccles.)

**1. READING AND PRACTICE**

The exam next week will cover chapters 1-6 of the text. But we will continue to move on in class, so you should read chapter 7 (but don't worry about the part on the cartesian product of sets), and start reading chapters 15 and 16 and do the end of chapter exercises for practice (but do not hand them in.)

**2. EXERCISES TO SUBMIT ON FRIDAY 2/2**

**1.** In the Exercises II which begin on page 115 of the text, do #4, 7, 11(i)(iii)(iv)(v), 12.

*IMPORTANT: Numbers 4 and 7 deal with chapter 6 material and so if you need practice on chapter 6 you should look at those before the exam.*

**2.** In the Exercises IV which begin on page 225 of the text, do #2, 3. For #3, recall the proof that  $\sqrt{2}$  is not a rational number, and use that as a model.