

393 HOMEWORK 4

- Our first midterm is on Friday May 2. It will cover all the material in chapter 5 ONLY (nothing from chapter 6). So you should revise the linear algebra we've done, focussing on the dimension of a vector space, and its application to the tower law for field extensions. Then you should revise the geometric applications: how did we prove for example that the angle 20 degrees is *not* constructible. I am not going to give out a review sheet for this exam. The best way to revise is to go over the homework sheets 1,2,3 so far this term and make sure you understand all the answers!!!
- Read section 6.1 if you didn't already. Pay especial attention to the examples 1,2,3,4 discussed there – we should also be discussing most of these in class in the next week or so.
- Exercises 6.1: 0, 1,2,4, 10, 11, 14.
- Think about Exercise 6.1: 16. For example, can you work out the *order* of the group of symmetries of the regular n -gon?