

## HOMEWORK 2, DUE WEDNESDAY OCTOBER 12TH

1. Give a description of  $D_4$ , the group of symmetries of the square, similar to the one given in class, and find all of its subgroups.
2. Chapter 2, Section 2: 1 and 2.
3. Chapter 2, Section 3: 1, 4, 5, 12, 16.
4. **Challenge Problems** Chapter 2, Section 3: 25-27.