

Math 422: Abstract Algebra I
Homework 1, Due Wednesday, January 30

Most of the following are meant to remind you of key terminology from Math 421 while also introducing you to direct products and normal subgroups.

Review the material in Chapter 4. In particular, be able to use Theorem 4.2 on page 76, and understand the proof of Corollary 2 on page 75. In addition, do the following problems:

- Chapter 8: # 7, 14, 21, 28, 30
- Chapter 9: # 1, 4
- Write a careful proof of Corollary 1 on page 156.