

Math 103A Fall 2006 Homework 3

Due 10/13/06 in class

All exercise and page numbers refer to Gallian, 6th edition.

0. These exercises are suggestions for extra practice at home (or in section) and are *not to be turned in!*

Gallian Chapter 3, #1, 7, 9, 17, 21, 23, 33, 39, 43

Gallian Chapter 4, #1, 3, 5, 9

1. Do Gallian Chapter 3, #6, 8, 14, 16, 20, 22, 34, 36, 44, 51

2. Do Gallian Chapter 4, #10, 18, 22

Comments:

For Chapter 3 #14, you should prove the stronger result that the exercise suggests: Given any group G and a collection of subgroups H_i where i ranges over some index set I , then $\bigcap_{i \in I} H_i$ is a subgroup of G .