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 $G$. 