

Math 103B Winter 2006 HW 1

HW Due Friday 1/13/06 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 12, # 19, 29, 31, 37, 39, 41, 47.

1. Gallian Chapter 12, #2, 6, 18, 26, 42, 46.

In exercise 26, the following notation from exercise 22 is used: given a commutative ring R with identity, the set of all elements in R which are units is denoted $U(R)$. (Exercise 22 proves that $U(R)$ is a group, but you don't need to know this to do exercise 26.)