

Math 103B Winter 2006 HW 7

HW Due Friday 3/10/06 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 19, #7, 13, 19

Gallian Chapter 20, #13, 17, 19, 29

1. Gallian Chapter 19, #8, 14, 15, 16, 22.

2. Gallian Chapter 20, #1, 2, 3, 4, 5.

Comments and hints:

19.22: Knowing the result in exercise **19.19** may be helpful.

20.1: The hint in the back is useless. One way to “describe the elements” is to find a basis for the given field as a \mathbb{Q} -vector space. (Hint: it has dimension 3.)

20.2: If you’re stuck, Example 6 in Chapter 21 may be helpful.