

Read Chapters 5 and 6 of Gallian.

The following problems give you practice with the concepts in Chapters 5 and 6. I have tried to pick an interesting collection of problems. Some are very easy, some hard; some may be done in class. You might first browse through the problems and see which you can do easily and which interest you. The majority will not be turned in. Some will turn up (perhaps varied a bit) on exams.

Note: there are answers to most odd-numbered problems in the back of the book.

I will ask you to hand in some of these problems for a grade later. I may also assign additional problems. Some of these problems may form the basis of in-class presentations.

Note that Gallian writes $G \approx H$ where we would more commonly write $G \cong H$.

Chapter 5

p. 111 # 1, 3, 4, 6, 7, 8, 9, 12, 14, 15, 16, 17, 18, 21, 22, 25, 26, 27, 28,
34, 37, 40, 41, 42, 45, 46, 51

Chapter 6

p. 129 # 1, 2, 3, 4, 5, 6, 7, 10, 11, 14, 16, 17, 19, 20, 22, 25, 27, 30, 31, 37