

Please explain briefly but clearly your reasoning (unless it is totally obvious from your answer, i.e., when you have to list the elements of a set or to draw a set in the plane).

Please write the problems in the same order as they are given in the assignment.

Note that the odd-numbered problems have answers at the end of Hammack's book. I strongly suggest that you do *all* odd-numbered problems for practice; moreover, many of them are very similar to the assigned homework problems.

Hammack, Sec. 11.4: Exercises 2*, 4, 6.

* No need to write anything about the comparison between this exercise and Exercise 6 from Sec. 11.3, just think about this comparison, and how it relates to Theorems 11.1 and 11.2 from Sec. 11.4.

Hammack, Sec. 12.1: Exercises 4, 6, 8, 10.

Hammack, Sec. 12.2: Exercises 4, 8, 14, 16.