

This assignment covers the start of ring theory in Math 531. We won't cover Chapter 14 completely.

The usual comments apply - see previous homework assignments.

Chapter 12

Read Chapter 12 of Gallian.

p. 234 # 2, 3, 5, 6, 7, 9, 10, 11, 13, 14, 15, 17, 19, 20, 21, 22, 23, 25, 26, 27, 28,
34, 36, 38, 40, 41, 43, 44, 45, 46, 47, 48, 49

Chapter 13

Read Chapter 13 of Gallian.

p. 246 # 1, 2, 3, 4, 5, 7, 8, 9, 10, 13, 16, 17, , 21, 22, 23, 24, 26, 29,
30, 31, 32, 37, 40, 41, 45, 46, 52, 53, 54, 59

Chapter 14

Read the material on ideals in Chapter 14 of Gallian, pp. 253–254.

p. 260 # 1, 2, 3, 4, 5, 7, 9, 10, 17

Supplementary Problems for Chapters 12–14

p. 267 # 1, 2, 7, 11, 14, 15, 17, 19, 24, 33, 34, 39