MATH 412 Abstract Algebra I Practice Problem List (last updated August 17)

Chapter 1: Arithmetic in Z Revisited

- Section 1:6.7.8.9.10
- Section 2: 16-27.
- Section 3: 21,23,25,26,30

Chapter 2 Congruence in Z and Modular Arithmetic

- Section 1: 11, 12, 14,15,16,20,
- Section 2: 14,15,16,
- Section 3: All problems on pg 41-42

Chapter 3

- Section 1: 20-29,35,36,29,43
- Section 2: All problems on pg 80-82
- Section 3: 16-23,30,35,38

Chapter 4

- Section 1: 11,12,13,15,16,18,20
- Section 2: 7.8.9
- Section 3: 15,16,20,21,22,23
- Section 4: 12,13,15,16,17,18,23,24,27,28
- Section 5: All Type A problems on pg 119
- Section 6: All Type A problems on pg 123

Chapter 5

- Section 1: 8-13
- Section 2: 5-11
- Section 3: 2-12

Chapter 6

- Section 1: 1-3, 8-13,15-23, 24-32,36,37,38,40-43
- Section 2: 1-8, 10, 11,12,16,17,18
- Section 3: 1-9, 10-12,15,17,18

Chapter 10

- Section 1: all problems
- Section 2: 1-21
- Section 3: TBA