Math 30810: Honors Algebra III
Problem Set 1

The homework consists of the following problems from the second edition of Artin:

- Chapter 1, problem 5.1.

- Chapter 2, problems 1.3, 2.2, 2.3, 2.4, 2.6.

Make sure to write in complete sentences and to justify your answers! For instance, in problem 2.3 of chapter 2, it asks whether two facts follow from a first one. For each of those two facts, either give a proof if it does follow or give a counterexample if it does not.