Due: April 15, 2005

Math 370 (Algebra) / Homework # 10

Required:

- Reading from Artin’s book *Algebra*: Chapter 12, Sections 1; Chapter 3, Sections 1, 2, 3.
- Solve the following problems from Artin’s book *Algebra*, at the end of Chapter 12:
  - Problems 8, 10, 12a from *The Definition of a Module*, pp.484.
- Solve the following problems from Artin’s book *Algebra*, at the end of Chapter 3:
  - Problems 7, 11, 14, 15 from *Abstract fields*, pp.104-5.
  - Problems 1, 2, 3, 4, 7, 11, 12, 13, 16 from *Bases and Dimension*, pp.105-6.

Suggested: From Artin’s book *Algebra*:

- Read Sections 2 from Chapter 12; Sections 4, 5, 6 from Chapter 3.
- Try to solve all the problems at the end of Sections 1, 2 of Chapter 12, and all the problems at the end of Chapter 3.