Due: Mar 25, 2005

Math 370 (Algebra) / Homework # 8

Required:

- Reading from Artin’s book *Algebra*: Chapter 10, Sections 4, 5, 6, 7.
- Solve the following problems from Artin’s book *Algebra*, at the end of Chapter 10:
  - Problems 2, 3, 6, 7, 8 from *Quotient rings and Relations in a ring*, pp.382-3.
  - Problems 1, 2, 9, 10, 11, 14, 16, 17 from *Adjunction of elements*, pp.383-4.
  - Problems 2, 3, 4, 5, 7, 9 from *Integral domains and fraction fields*, pp.384.
  - Problems 1, 2, 5, 6, 7, 12, 13 from *Maximal ideals*, pp.384

Suggested: From Artin’s book *Algebra*:

- Try to solve further/all problems at the end of Chapter 10, especially the *Miscellaneous Exercises*.
- Make sure that you are familiar with the material of Chapter 10.