

Required:

- Reading from Artin’s book *Algebra*: Chapter 11, Sections 1, 2, 4.
  - Solve the following problems from Artin’s book *Algebra*, at the end of Chapter 10:
    - Problems 1, 2, 3, 4, 6, 10, 13 from *Factorization of Integers and Polynomials*, pp.440-1.
    - Problems 1, 2, 3, 5, 6, 8, 9 from *Unique factorization domains,...* pp.441-2.
    - Problems 1, 2, 3, 12, 13, 14 from *Explicit factorization of Polynomials*, pp.443-4.

Suggested: From Artin’s book *Algebra*:

- Read Sections 3 and 5: *Gauß’s Lemma* and *Primes in the Ring of Gauß integers*.
- Try to solve all the problems at the end of Sections 1, 2, 3, 4, 5 of Chapter 11.