You should look at the problems with solutions from the book first and check your answers to be sure you understand the methods; all sections in chapter 1, first two sections in chapter 9.

Book problems:

page 35: 30, 31, 32, 33, 52, 55, 56.

page 308: 1, 2, 4, 5, 7

Remarks: The problems involving the Euclidean algorithm and gcd should be done using continued fractions. The Convergents of a continued fraction are the \((p_k, q_k)\).