Homework 5

due on Friday, February 9

Read section 2.2 and 2.3 in the book. Solve problems 28 e.f; 29 e,f; 34c; 35, 38. Also solve the following problems.

Problem 1. Let m, n be positive integers. How many multiples of n are in the sequence $m, 2m, 3m, \ldots, nm$?

Problem 2. Find a positive integer such that half of it is a square, a third of it is a cube, and a fifth of it is a fifth power. Hint: think in terms of prime factorization.