Homework 13

due on Wednesday, April 11

Study carefully Chapter 3 of the book. Solve problems 43, 44, 50, 51, 56, 59, 65, 66 in Chapter 3.

Also solve the following problem.

Problem 1. For two artithmetic functions f, g we can define their usual product fg by (fg)(n) = f(n)g(n) for every positive integer n. Prove that f has the propert that f(g * h) = (fg) * (fh) for any arithmetic functions g, h if and only if f is completely multiplicative.