Number Theory I Assignment 7.1 Spring 2012

Exercise 1. Let $n$ be a positive integer. Prove that if $a \equiv b(\bmod n)$, then $\operatorname{gcd}(a, n)=$ $\operatorname{gcd}(b, n)$.

Exercise 2. Textbook exercise 5.2.3

Exercise 3. Textbook exercise 5.2.9

Exercise 4. Textbook exercise 7.3.5

Exercise 5. Textbook exercise 7.3.7

