Number Theory
Fall 2020

Assignment 5.3
Due September 30

Exercise 1. Let G be a group. For $a \in G$ define $L_a : G \to G$ by $L_a(x) = ax$. Prove that L_a is a bijection by showing that $(L_a)^{-1} = L_{a^{-1}}$.

Exercise 2. Textbook exercises 5.2.2(b) and 5.2.4(c).

Exercise 3. Textbook exercise 5.2.12.