

MODERN ALGEBRA 1: HOMEWORK 4

- (1) Chapter 2: 5.1
- (2) Chapter 2: 6.2
- (3) Chapter 2: 6.7
- (4) Chapter 2: 9.7
- (5) Consider the function $\phi: G \rightarrow G$ defined by $\phi(g) = g^{-1}$. Show that ϕ is a homomorphism if and only if G is abelian.