## **Algebra**

D. Zack Garza

August 15, 2019

1

## **Contents**

1 Lecture 1 (Thu 15 Aug 2019)

## 1 Lecture 1 (Thu 15 Aug 2019)

Definition: A group is an ordered pair  $(G, \cdot : G \times G \to G)$  where G is a set and  $\cdot$  is a binary operation, which satisfies the following axioms:

1. Associativity:  $(g_1g_2)g_3 = g_1(g_2g_3)$