

Chapter 6, Problem 10. Let G be a group. Prove that the mapping $\alpha(g) = g^{-1} \forall g \in G$ is an automorphism if and only if G is Abelian.

Solution:(\Rightarrow) Let G be a group and let a and $b \in G$. Assume that the map α such that $\alpha(g) = g^{-1} \forall g \in G$ is an automorphism. Then we know $\alpha(ab) = \alpha(a)\alpha(b)$. But since $ab \in G$, we can write $\alpha(ab) = (ab)^{-1} = b^{-1}a^{-1} = \alpha(b)\alpha(a)$. Hence, $\alpha(a)\alpha(b) = \alpha(b)\alpha(a)$, so by Theorem 6.2 (part 3), G is Abelian.

(\Leftarrow) Let G be an Abelian group and let a and $b \in G$. Let $\alpha : G \rightarrow G$ be the map $\alpha(g) = g^{-1} \forall g \in G$. The existence property of inverses in a group guarantees that the map α is onto and the uniqueness property guarantees that the map α is one-to-one. Now, consider $\alpha(ab)$. Since G is Abelian, $ab = ba$ so $\alpha(ab) = \alpha(ba) = (ba)^{-1} = a^{-1}b^{-1} = \alpha(a)\alpha(b)$. So we have $\alpha(ab) = \alpha(a)\alpha(b)$. Hence, α is an automorphism.

Chapter 6, Problem 12. Find two groups G and H such that $G \not\cong H$, but $\text{Aut}(G) \cong \text{Aut}(H)$.

Solution: Consider the groups Z (the integers under addition) and Z_3 . We see immediately that $Z \not\cong Z_3$ since Z has an infinite number of elements while Z_3 has only 3. However, since these are both cyclic groups, we know that generators must be mapped to generators, and each of these groups has exactly two generators, hence there are exactly two automorphisms on each. Under addition, $Z = \langle 1 \rangle = \langle -1 \rangle$, and under addition modulo 3, $Z_3 = \langle 1 \rangle = \langle 2 \rangle$. So the automorphisms on Z are the maps

$\alpha_1 : Z \rightarrow Z : x \mapsto x$ and $\alpha_2 : Z \rightarrow Z : x \mapsto -x$ for $x \in Z$.

The automorphisms on Z_3 are the maps

$\beta_1 : Z_3 \rightarrow Z_3 : y \mapsto y$ and $\beta_2 : Z_3 \rightarrow Z_3 : y \mapsto -y$ for $y \in Z_3$ (that is, $0 \mapsto 0; 1 \mapsto 2; 2 \mapsto 1$).

So we can compare the Cayley tables of the automorphism groups:

| | | |
|------------|------------|------------|
| \circ | α_1 | α_2 |
| α_1 | α_1 | α_2 |
| α_2 | α_2 | α_1 |

| | | |
|-----------|-----------|-----------|
| \circ | β_1 | β_2 |
| β_1 | β_1 | β_2 |
| β_2 | β_2 | β_1 |

We can see from these that $\text{Aut}(G) \cong \text{Aut}(H)$.

Chapter 6, Problem 22. Prove or disprove that $U(20)$ and $U(24)$ are isomorphic.

Solution: These groups are **not** isomorphic. In $U(24)$ every element other than the identity has order 2 (since $5^2 = 25 = 1 \pmod{24}$, etc.). However, in $U(20)$, the order of the element 3 is 8. Since Theorem 6.2 part 5, tells us that isomorphisms preserve order, there cannot be an isomorphism between these two groups.

Chapter 7, Problem 22. Suppose that G is a group with more than one element and G has no proper, nontrivial subgroups. Prove that $|G|$ is prime. Do not assume at the outset that G is finite.

Abstract Algebra Manual Problems Solutions

Puja Mehta



Abstract Algebra Manual Problems Solutions:

Abstract Algebra Manual Ayman Badawi, 2001 Abstract Algebra Manual Ayman Badawi, 2004 This is the most current textbook in teaching the basic concepts of abstract algebra The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem Therefore this is a hands on manual where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned Each chapter begins with a statement of a major result in Group and Ring Theory followed by problems and solutions Contents Tools and Major Results of Groups Problems in Group Theory Tools and Major Results of Ring Theory Problems in Ring Theory Index A Gentle Introduction to Group Theory Bana Al Subaiei, Muneerah Al Nuwairan, 2023-05-31 The book is intended to serve as an introductory course in group theory geared towards second year university students It aims to provide them with the background needed to pursue more advanced courses in algebra and to provide a rich source of examples and exercises Studying group theory began in the late eighteenth century and is still gaining importance due to its applications in physics chemistry geometry and many fields in mathematics The text is broadly divided into three parts The first part establishes the prerequisite knowledge required to study group theory This includes topics in set theory geometry and number theory Each of the chapters ends with solved and unsolved exercises relating to the topic By doing this the authors hope to fill the gaps between all the branches in mathematics that are linked to group theory The second part is the core of the book which discusses topics on semigroups groups symmetric groups subgroups homomorphisms isomorphism and Abelian groups The last part of the book introduces SAGE a mathematical software that is used to solve group theory problems Here most of the important commands in SAGE are explained and many examples and exercises are provided

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