

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  $\alpha$  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  $\alpha$  is onto and the uniqueness property guarantees that the map  $\alpha$  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,  $\alpha$  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:

$\circ$	$\alpha_1$	$\alpha_2$
$\alpha_1$	$\alpha_1$	$\alpha_2$
$\alpha_2$	$\alpha_2$	$\alpha_1$

$\circ$	$\beta_1$	$\beta_2$
$\beta_1$	$\beta_1$	$\beta_2$
$\beta_2$	$\beta_2$	$\beta_1$

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.

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**Jeffrey A. Cole**



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## **Table of Contents Abstract Algebra Manual Problems Solutions Tcurry**

1. Understanding the eBook Abstract Algebra Manual Problems Solutions Tcurry
  - The Rise of Digital Reading Abstract Algebra Manual Problems Solutions Tcurry
  - Advantages of eBooks Over Traditional Books
2. Identifying Abstract Algebra Manual Problems Solutions Tcurry
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Abstract Algebra Manual Problems Solutions Tcurry
  - User-Friendly Interface
4. Exploring eBook Recommendations from Abstract Algebra Manual Problems Solutions Tcurry

- Personalized Recommendations
  - Abstract Algebra Manual Problems Solutions Tcurry User Reviews and Ratings
  - Abstract Algebra Manual Problems Solutions Tcurry and Bestseller Lists
5. Accessing Abstract Algebra Manual Problems Solutions Tcurry Free and Paid eBooks
- Abstract Algebra Manual Problems Solutions Tcurry Public Domain eBooks
  - Abstract Algebra Manual Problems Solutions Tcurry eBook Subscription Services
  - Abstract Algebra Manual Problems Solutions Tcurry Budget-Friendly Options
6. Navigating Abstract Algebra Manual Problems Solutions Tcurry eBook Formats
- ePub, PDF, MOBI, and More
  - Abstract Algebra Manual Problems Solutions Tcurry Compatibility with Devices
  - Abstract Algebra Manual Problems Solutions Tcurry Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Abstract Algebra Manual Problems Solutions Tcurry
  - Highlighting and Note-Taking Abstract Algebra Manual Problems Solutions Tcurry
  - Interactive Elements Abstract Algebra Manual Problems Solutions Tcurry
8. Staying Engaged with Abstract Algebra Manual Problems Solutions Tcurry
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Abstract Algebra Manual Problems Solutions Tcurry
9. Balancing eBooks and Physical Books Abstract Algebra Manual Problems Solutions Tcurry
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Abstract Algebra Manual Problems Solutions Tcurry
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Abstract Algebra Manual Problems Solutions Tcurry
- Setting Reading Goals Abstract Algebra Manual Problems Solutions Tcurry
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Abstract Algebra Manual Problems Solutions Tcurry

- Fact-Checking eBook Content of Abstract Algebra Manual Problems Solutions Tcurry
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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