

Solutions to Abstract Algebra (Dummit and Foote 3e)

Chapter 1 : Group Theory

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This work was done as an undergraduate student: if you really don't understand something in one of these proofs, it is very possible that it doesn't make sense because it's wrong. Any questions or corrections can be directed to jason.rosendale@gmail.com.

Exercise 1.1.1

(a) is not associative: $3 - (2 - 1) \neq (3 - 2) - 1$. (b),(c),and (d) can be shown to be associative by grinding out the algebra and showing that $a * (b * c) = (a * b) * c$. (e) is not associative, as can be shown by letting $a = b = c = 2$.

Exercise 1.1.2

(a) and (e) can be shown to not be commutative by letting $a = 1, b = 2$. (b),(c) and (d) can be shown to be commutative by grinding out the algebra.

Exercise 1.1.3

$$\begin{aligned}\overline{a+b+c} \\ &= \overline{a+b} + c \quad \text{def. of modular addition} \\ &= \overline{a+b+c} \quad \text{def. of modular addition}\end{aligned}$$

Exercise 1.1.4

$$\begin{aligned}\overline{ab} \cdot c \\ &= \overline{a \cdot b} \cdot c \quad \text{def. of modular multiplication} \\ &= \overline{a \cdot bc} \quad \text{def. of modular multiplication}\end{aligned}$$

Exercise 1.1.5

To be a group, each element a would need a multiplicative inverse b such that $ab = 1$; but $\mathbb{Q}$ has no such inverse.

Exercise 1.1.6

(b) is not closed: $1/14 + 1/14 = 1/7$. (c) is not closed: $2/3 + 2/3 = 4/3$. (d) is not closed: $2 + (-3/2) = 1/2$. (f) is not closed: $1/2 + 1/3 = 5/6$. (a) and (e) are groups under addition.

Exercise 1.1.7

That $x * y$ is well-defined follows directly from the fact that $+\cdot,$ and the greatest integer function are well defined on $\mathbb{R}$. To prove that G is a group: G has an identity element ($0 \in G$ and $0 * x = x * 0 = x - [x] = 0$), each

Algebra Dummit Foote Solutions Manual

Kyle Burke, Otto Bretscher



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Table of Contents Algebra Dummit Foote Solutions Manual

1. Understanding the eBook Algebra Dummit Foote Solutions Manual
 - The Rise of Digital Reading Algebra Dummit Foote Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Dummit Foote Solutions Manual
 - 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 Algebra Dummit Foote Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Dummit Foote Solutions Manual
 - Personalized Recommendations

- Algebra Dummit Foote Solutions Manual User Reviews and Ratings
- Algebra Dummit Foote Solutions Manual and Bestseller Lists
- 5. Accessing Algebra Dummit Foote Solutions Manual Free and Paid eBooks
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 - Algebra Dummit Foote Solutions Manual Budget-Friendly Options
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 - Algebra Dummit Foote Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra Dummit Foote Solutions Manual
 - Highlighting and Note-Taking Algebra Dummit Foote Solutions Manual
 - Interactive Elements Algebra Dummit Foote Solutions Manual
- 8. Staying Engaged with Algebra Dummit Foote Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Dummit Foote Solutions Manual
- 9. Balancing eBooks and Physical Books Algebra Dummit Foote Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Dummit Foote Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra Dummit Foote Solutions Manual
 - Setting Reading Goals Algebra Dummit Foote Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra Dummit Foote Solutions Manual
 - Fact-Checking eBook Content of Algebra Dummit Foote Solutions Manual

- 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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