

# 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 (c) 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

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

### Exercise 1.1.4

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

### 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

# Dummit Foote Abstract Algebra Solutions

**Joseph A. Gallian**



## **Dummit Foote Abstract Algebra Solutions:**

**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 **Basic**

**Abstract Algebra: Exercises And Solutions** Mohammed Hichem Mortad, 2022-02-10 This book is mainly intended for first year University students who undertake a basic abstract algebra course as well as instructors It contains the basic notions of abstract algebra through solved exercises as well as a True or False section in each chapter Each chapter also contains an essential background section which makes the book easier to use **An Introduction to Mathematical Cryptography**

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**Handbook of Linear Algebra** Leslie Hogben, 2006-11-02 The Handbook of Linear Algebra provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use handbook format The esteemed international contributors guide you from the very elementary aspects of the subject to the frontiers of current research The book features an accessible

[Noncommutative Birational Geometry, Representations and Combinatorics](#) Arkady Berenstein, Vladimir Retakh, 2013-05-01 This volume contains the proceedings of the AMS Special Session on Noncommutative Birational Geometry Representations and Cluster Algebras held from January 6-7 2012 in Boston MA The papers deal with various aspects of noncommutative birational geometry and related topics focusing mainly on structure and representations of quantum groups and algebras braided algebras rational series in free groups Poisson brackets on free algebras and related problems in combinatorics This volume is useful for researchers and

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**Contemporary Abstract Algebra** Joseph A. Gallian, 2021 Whereas many partial solutions and sketches for the odd numbered exercises appear in the book the Student Solutions Manual written by the author has comprehensive solutions for all odd numbered exercises and large number of even numbered exercises This Manual also offers many alternative solutions to those appearing in the text These will provide the student with a better understanding of the material This is the only available student solutions manual prepared by the author of Contemporary Abstract Algebra Tenth Edition and is designed to supplement that text

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### **Table of Contents Dummit Foote Abstract Algebra Solutions**

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

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

- 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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