

# Solutions to Abstract Algebra (Dummit and Foote 3e)

## Chapter 1 : Group Theory

Jason Rosendale  
jason.rosendale@gmail.com

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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

# Abstract Algebra Dummit And Foote Solutions

**Jeffrey Hoffstein, Jill Pipher, Joseph H.  
Silverman**



## **Abstract Algebra Dummit And Foote 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 Mastering Algebra Sachin Nambeesan, 2025-02-20 Mastering Algebra is a comprehensive and student friendly exploration of fundamental principles and advanced applications of algebra tailored specifically for undergraduate students We provide a valuable resource for those seeking to deepen their understanding of algebraic theory and its diverse range of applications across various disciplines Our book starts with foundational concepts such as algebraic manipulation equation solving and functions It then progresses to more advanced topics including linear algebra abstract algebra and algebraic geometry offering a seamless transition from basic to advanced algebraic theory What sets this book apart is its emphasis on clarity coherence and practical relevance Each chapter is meticulously crafted to provide clear explanations of complex concepts supported by illustrative examples and thought provoking exercises that encourage active learning and critical thinking Furthermore Mastering Algebra highlights the practical applications of algebra in fields such as physics computer science engineering and economics demonstrating its importance and versatility in solving real world problems Whether you are a mathematics major looking to deepen your understanding of algebraic theory or a student from another discipline seeking to strengthen your quantitative skills this book is your essential companion on the journey to mastering algebra Prepare to embark on an enriching intellectual adventure that will empower you to unlock the full potential of algebraic concepts and their applications **An Introduction to Mathematical Cryptography** Jeffrey Hoffstein, Jill Pipher, Joseph H. Silverman, 2014-09-11 This self contained introduction to modern cryptography emphasizes the mathematics behind the theory of public key cryptosystems and digital signature schemes The book focuses on these key topics while developing the mathematical tools needed for the construction and security analysis of diverse cryptosystems Only basic linear algebra is required of the reader techniques from algebra number theory and probability are introduced and developed as required This text provides an ideal introduction for mathematics and computer science students to the mathematical foundations of modern cryptography The

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web pennzoil oil filter cross references are typically found on the manufacturer s website the information that must be reported on the cross reference includes the oil filter number the size of the filter the thread size the by pass valve the anti drainback valve the filter media the filter efficiency the part number and the vehicle

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