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 associate: $3 - (2 - 1) \neq (3 - 2) - 1$. (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

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

Exercise 1.1.4

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

Exercise 1.1.5

To be a group, each element a would need a multiplicative inverse b such that $ab = 1$; but $\bar{0}$ 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 $+, -$, and the greatest integer function are well defined on $\Re$. To prove that G is a group: G has an identity element ($0 \in G$ and $0 * x = x * 0 = x - [x] = 0$), each

Solutions To Dummit And Foote Abstract Algebra

Mohammed Hichem Mortad

Solutions To Dummit And Foote Abstract Algebra:

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   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   *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 book includes an extensive bibliography and index supplementary materials are available online The book covers a variety of topics that are considered central to mathematical cryptography Key topics include classical cryptographic constructions such as Diffie Hellmann key exchange discrete logarithm based cryptosystems the RSA cryptosystem anddigital signatures fundamental mathematical tools for cryptography including primality testing factorization algorithms probability theory information theory and collision algorithms an in depth treatment of important cryptographic innovations such as elliptic curves elliptic curve and pairing based cryptography lattices lattice based cryptography and the NTRU cryptosystem The second edition of An Introduction to Mathematical Cryptography includes a significant revision of the material on digital signatures including an earlier introduction to RSA Elgamal and DSA signatures and new material on lattice based signatures and rejection sampling Many sections have been rewritten or expanded for clarity especially in the chapters on information theory elliptic curves and lattices and the chapter of additional topics has been expanded to include sections on digital cash and homomorphic encryption Numerous new exercises have been included   **A Practical Guide to Quantum Computing** Elías F. Combarro,Samuel González-Castillo,2025-07-30 Learn about quantum information processing with Qiskit through hands on projects A foundational resource for STEM professionals researchers and university students interested in quantum computers and

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