

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

## Chapter 1 : Group Theory

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February 11, 2012

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

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

### 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

# 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

[The Bulletin of Mathematics Books](#), 1992

[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 graduate students in mathematics and mathematical physics who want to be introduced to different areas of current research in the new area of noncommutative algebra and geometry Publisher's website *How Many Zeroes?* Pinaki Mondal, 2021-11-07 This graduate textbook presents an approach through toric geometry to the problem of estimating the isolated solutions counted with appropriate multiplicity of  $n$  polynomial equations in  $n$  variables over an algebraically closed field The text collects and synthesizes a number of works on Bernstein's theorem of counting solutions of generic systems ultimately presenting the theorem commentary and extensions in a comprehensive and coherent manner It begins with Bernstein's original theorem expressing solutions of generic systems in terms of the mixed volume of their Newton polytopes including complete proofs of its recent extension to affine space and some applications to open problems The text also applies the developed techniques to derive and generalize Kushnirenko's results on Milnor numbers of hypersurface singularities which has served as a precursor to the development of toric geometry Ultimately the book aims to present material in an elementary format developing all necessary algebraic geometry to provide a truly accessible overview suitable to second year graduate students

**Integral Domains Inside Noetherian Power Series Rings: Constructions and Examples** William Heinzer, Christel Rotthaus, Sylvia Wiegand, 2021-10-08 Power series provide a technique for constructing examples of commutative rings In this book the authors describe this technique and use it to analyse properties of commutative rings and their spectra This book presents results obtained using this approach The authors put these results in perspective often the proofs of properties of classical examples are simplified The book will serve as a helpful resource for researchers working in commutative algebra

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