

# 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](mailto: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

**A Loxley**



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**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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[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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