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 $\overline{0}$ 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 $\mathbb{R}$. To prove that G is a group: G has an identity element ($0 \in G$ and $0 * x = x * 0 = x - [x] = 0$), each

Solutions To Dummit And Foote Abstract Algebra

JOSEPH A. GALLIAN

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Table of Contents Solutions To Dummit And Foote Abstract Algebra

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

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