

Solutions to Abstract Algebra (Dummit and Foote 3e)

Chapter 2 : Subgroups

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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 2.1.1a

$0 + 0i$ is the identity element of G , and $a + ai, b + bi \in G$ implies $-b + (-b)i \in G$ with $(a + ai) + (-b + (-b)i) = (a - b) + (a - b)i \in G$.

Exercise 2.1.1b

1 is the identity element of G , and $a, b \in G$ implies $|ab^{-1}| = |a||b^{-1}| = |1||1| = 1$ so that $ab \in G$.

Exercise 2.1.1c

$\frac{n}{q}$ is the identity element of G , and $a/b, p/q \in G$ implies $b|a$ and $q|a$ so that $b = a/x$ and $q = a/y$ for some $x, y \in \mathbb{Z}$. Thus:

$$\frac{a}{b} - \frac{p}{q} = \frac{ax}{a} - \frac{py}{a} = \frac{ax - py}{a}$$

which, when reduced, becomes

$$= \frac{(ax - py) / \gcd(ax - py, a)}{a / \gcd(ax - py, a)}$$

The denominator of this fraction clearly divides a , and thus the fraction is $\in G$.

Exercise 2.1.1d

$\frac{n}{q}$ is the identity element of G , and $a/b, p/q \in G$ implies

$$\frac{a}{b} - \frac{p}{q} = \frac{aq - bp}{bq}$$

And if b, q are relatively prime to a then bq is also relatively prime to a so the fraction is $\in G$.

Exercise 2.1.1e

1 is the identity element of G , and $a, b \in G$ implies

$$(ab)^2 = a^2b^2$$

which is a product of elements of \mathbb{Q} and is thus an element of \mathbb{Q} .

Dummit And Foote Solutions Chapter 7

Guillaume Favre



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Table of Contents Dummit And Foote Solutions Chapter 7

1. Understanding the eBook Dummit And Foote Solutions Chapter 7
 - The Rise of Digital Reading Dummit And Foote Solutions Chapter 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Dummit And Foote Solutions Chapter 7
 - 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 Dummit And Foote Solutions Chapter 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dummit And Foote Solutions Chapter 7

- Personalized Recommendations
 - Dummit And Foote Solutions Chapter 7 User Reviews and Ratings
 - Dummit And Foote Solutions Chapter 7 and Bestseller Lists
5. Accessing Dummit And Foote Solutions Chapter 7 Free and Paid eBooks
 - Dummit And Foote Solutions Chapter 7 Public Domain eBooks
 - Dummit And Foote Solutions Chapter 7 eBook Subscription Services
 - Dummit And Foote Solutions Chapter 7 Budget-Friendly Options
 6. Navigating Dummit And Foote Solutions Chapter 7 eBook Formats
 - ePub, PDF, MOBI, and More
 - Dummit And Foote Solutions Chapter 7 Compatibility with Devices
 - Dummit And Foote Solutions Chapter 7 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dummit And Foote Solutions Chapter 7
 - Highlighting and Note-Taking Dummit And Foote Solutions Chapter 7
 - Interactive Elements Dummit And Foote Solutions Chapter 7
 8. Staying Engaged with Dummit And Foote Solutions Chapter 7
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dummit And Foote Solutions Chapter 7
 9. Balancing eBooks and Physical Books Dummit And Foote Solutions Chapter 7
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dummit And Foote Solutions Chapter 7
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Dummit And Foote Solutions Chapter 7
 - Setting Reading Goals Dummit And Foote Solutions Chapter 7
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Dummit And Foote Solutions Chapter 7

- Fact-Checking eBook Content of Dummit And Foote Solutions Chapter 7
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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