

Abstract Algebra: An Introduction, 3rd

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Chapter 1

Arithmetic in $\mathbb{Z}$ Revisited

1.1 The Division Algorithm

1. (a) $q = 4, r = 1$. (b) $q = 0, r = 0$. (c) $q = -5, r = 3$.
2. (a) $q = -9, r = 3$. (b) $q = 15, r = 17$. (c) $q = 117, r = 11$.
3. (a) $q = 6, r = 19$. (b) $q = -9, r = 54$. (c) $q = 62720, r = 92$.
4. (a) $q = 15021, r = 132$. (b) $q = -14940, r = 335$. (c) $q = 39763, r = 3997$.
5. Suppose $a = bq + r$, with $0 \leq r < b$. Multiplying this equation through by c gives $ac = (bc)q + rc$. Further, since $0 \leq r < b$, it follows that $0 \leq rc < bc$. Thus this equation expresses ac as a multiple of bc plus a remainder between 0 and $bc - 1$. Since by Theorem 1.1 this representation is unique, it must be that q is the quotient and rc the remainder on dividing ac by bc .
6. When q is divided by c , the quotient is k , so that $q = ck$. Thus $a = bq + r = b(ck) + r = (bc)k + r$. Further, since $0 \leq r < b$, it follows (since $c \geq 1$) that $0 \leq r < bc$. Thus $a = (bc)k + r$ is the unique representation with $0 \leq r < bc$, so that the quotient is indeed k .
7. Answered in the text.
8. Any integer n can be divided by 4 with remainder r equal to 0, 1, 2 or 3. Then either $n = 4k$, $4k + 1$, $4k + 2$ or $4k + 3$, where k is the quotient. If $n = 4k$ or $4k + 2$ then n is even. Therefore if n is odd then $n = 4k + 1$ or $4k + 3$.
9. We know that every integer a is of the form $3q$, $3q + 1$ or $3q + 2$ for some q . In the last case $a^2 = (3q + 2)^2 = 9q^2 + 12q + 4 = 3(3q^2 + 4q + 1) + 1$. Other cases are similar.
10. Suppose $a = bq + r$ where $0 \leq r < a$ and $c = bq' + r'$ where $0 \leq r' < a$. If $r = r'$ then $a - c = b(q - q')$ and $k = q - q'$ is an integer. Conversely, given $a - c = ak$ we can substitute to find: $(r - r') = a(k - q + q')$. Suppose $r \geq r'$ (the other case is similar). The given inequalities imply that $0 \leq (r - r') < a$ and it follows that $a(k - q + q') < a$ and we conclude that $k - q + q' = 0$. Therefore $r = r'$, $q = q'$ and $a = c$ as claimed.

Manual Abstract Algebra Hungerford

**William W. Adams, Philippe
Loustaunau**



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Abstract Algebra Bland,2002-08 **Innovations in Teaching Abstract Algebra** Allen C. Hibbard, Ellen J. Maycock,2002

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1. Understanding the eBook Manual Abstract Algebra Hungerford
 - The Rise of Digital Reading Manual Abstract Algebra Hungerford
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual Abstract Algebra Hungerford
 - 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 Manual Abstract Algebra Hungerford
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Abstract Algebra Hungerford
 - Personalized Recommendations
 - Manual Abstract Algebra Hungerford User Reviews and Ratings
 - Manual Abstract Algebra Hungerford and Bestseller Lists
5. Accessing Manual Abstract Algebra Hungerford Free and Paid eBooks
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 - Manual Abstract Algebra Hungerford eBook Subscription Services
 - Manual Abstract Algebra Hungerford Budget-Friendly Options

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 - Manual Abstract Algebra Hungerford Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Manual Abstract Algebra Hungerford
 - Highlighting and Note-Taking Manual Abstract Algebra Hungerford
 - Interactive Elements Manual Abstract Algebra Hungerford
8. Staying Engaged with Manual Abstract Algebra Hungerford
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual Abstract Algebra Hungerford
9. Balancing eBooks and Physical Books Manual Abstract Algebra Hungerford
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual Abstract Algebra Hungerford
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Manual Abstract Algebra Hungerford
 - Setting Reading Goals Manual Abstract Algebra Hungerford
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Manual Abstract Algebra Hungerford
 - Fact-Checking eBook Content of Manual Abstract Algebra Hungerford
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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