Abstract Algebra: An Introduction, 3rd

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Chapter 1

Arithmetic in Z Revisited

1.1 The Division Algorithm

1. (a)
$$q = 4$$
, $r = 1$.

(b)
$$q = 0$$
, $r = 0$.

(a),
$$a = -5$$
, $r = 3$.

2. (a)
$$q = -9$$
, $r = 3$.

(b)
$$q = 15$$
, $r = 17$.

(a)
$$q = 117$$
, $r = 11$.

3. (a)
$$q = 6$$
, $r = 19$.

(b)
$$q = -9$$
, $r = 54$.

(c)
$$q = 62720$$
, $r = 92$.

(b)
$$q = -14940$$
, $r = 335$.

(c)
$$q = 39763$$
, $r = 3997$.

- 5. Suppose a = bq + r, with 0 ≤ r < b. Multiplying this equation through by c gives ac = (bc)q + rc. Further, since 0 ≤ r < b, it follows that 0 ≤ 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.</p>
- 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 ≤ r < b, it follows (since c≥ 1) than 0 ≤ r < bc. Thus a = (bc)k + r is the unique representation with 0 ≤ r < bc, so that the quotient is indeed k.</p>
- 7. Answered in the text.
- 8. Any integer a can be divided by 4 with remainder r equal to 0, 1, 2 or 3. Then either s = 4k, 4k + 1, 4k + 2 or 4k + 3, where k is the quotient. If s = 4k or 4k + 2 then a is even. Therefore if s is odd then s = 4k + 1 or 4k + 3.
- We know that every integer a is of the focus 3q, 3q + 1 or 3q + 2 for some q. In the last case a' = (3q + 2)' = 27q' + 54q' + 36q + 8 = 94 + 8 where 4 = 3q' + 6q' + 4q. Other cases are similar.
- 10. Suppose a = nq + r where 0 ≤ r < n and c = nq'+ r'where 0 < r'< n. If r = r'then a c = n(q q) and k = q q' is an integer. Conversely, given a c = nk we can substitute to find: (r r') = n(k q + q). Suppose r ≥ r' (the other case is similar). The given inequalities imply</p>

that $0 \le (r + r) \le n$ and allows the $0 \le (r - r) + 0 \le 1$ and that 4 - q + q' = 0. Therefore r = r = 0, that n = r' and almost

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 - The Rise of Digital Reading Hungerford Abstract Algebra Solutions
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Hungerford Abstract Algebra Solutions
 - 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 Hungerford Abstract Algebra Solutions
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Hungerford Abstract Algebra Solutions
 - Personalized Recommendations
 - Hungerford Abstract Algebra Solutions User Reviews and Ratings
 - Hungerford Abstract Algebra Solutions and Bestseller Lists
- 5. Accessing Hungerford Abstract Algebra Solutions Free and Paid eBooks
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 - Hungerford Abstract Algebra Solutions eBook Subscription Services
 - Hungerford Abstract Algebra Solutions Budget-Friendly Options
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 - Interactive Elements Hungerford Abstract Algebra Solutions
- 8. Staying Engaged with Hungerford Abstract Algebra Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hungerford Abstract Algebra Solutions
- 9. Balancing eBooks and Physical Books Hungerford Abstract Algebra Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hungerford Abstract Algebra Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hungerford Abstract Algebra Solutions
 - Setting Reading Goals Hungerford Abstract Algebra Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hungerford Abstract Algebra Solutions
 - Fact-Checking eBook Content of Hungerford Abstract Algebra Solutions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Interactive and Gamified eBooks

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