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):
$$q = -5$$
, $r = 3$.

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

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

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

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

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

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

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

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Padhraic Smyth

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Abstract Algebra Manual Ayman Badawi, 2004 This is the most current textbook in teaching the basic concepts of abstract algebra The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem Therefore this is a hands on manual where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned Each chapter begins with a statement of a major result in Group and Ring Theory followed by problems and solutions Contents Tools and Major Results of Groups Problems in Group Theory Tools and Major Results of Ring Theory Problems in Ring Theory Index Algebra Thomas W. Hungerford, 1997 Introduction to Linear Algebra Rita Fioresi, Marta Morigi, 2021-09-01 Linear algebra provides the essential mathematical tools to tackle all the problems in Science Introduction to Linear Algebra is primarily aimed at students in applied fields e g Computer Science and Engineering providing them with a concrete rigorous approach to face and solve various types of problems for the applications of their interest This book offers a straightforward introduction to linear algebra that requires a minimal mathematical background to read and engage with Features Presented in a brief informative and engaging style Suitable for a wide broad range of undergraduates Contains many worked examples Innovations in Teaching Abstract Algebra Allen C. Hibbard, Ellen J. Maycock, 2002 and exercises Mathematics Using Latin Squares Charles F. Laywine, Gary L. Mullen, 1998-09-17 Over the past two decades research in the theory of Latin Squares has been growing at a fast pace and new significant developments have taken place This book offers a unique approach to various areas of discrete mathematics through the use of Latin Squares **Applications of** Spreadsheets in Education the Amazing Power of a Simple Tool Mark A. Lau, Stephen J. Sugden, 2011-10-04 This e book is devoted to the use of spreadsheets in the service of education in a broad spectrum of disciplines science mathematics engineering business and general education The effort is aimed at collecting the works of prominent researchers and

Introduction to Cryptography with Open-Source Software Alasdair McAndrew,2016-04-19 Once the privilege of a secret few cryptography is now taught at universities around the world Introduction to Cryptography with Open Source Software illustrates algorithms and cryptosystems using examples and the open source computer algebra system of Sage The author a noted educator in the field provides a highly practical learning experienc. A Journey Through The Realm of Numbers Menny Aka,Manfred Einsiedler,Thomas Ward,2020-10-03 This book takes the reader on a journey from familiar high school mathematics to undergraduate algebra and number theory The journey starts with the basic idea that new number systems arise from solving different equations leading to abstract algebra Along this journey the reader will be exposed to important ideas of mathematics and will learn a little about how mathematics is really done Starting at an elementary level the book gradually eases the reader into the complexities of higher mathematics in particular the formal structure of mathematical writing definitions theorems and proofs is introduced in simple terms The book covers a range of topics from the very

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