

Abstract Algebra: An Introduction, 3rd

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Chapter 1

Arithmetic in $\mathbb{Z}$ Revisited

1.1 The Division Algorithm

- $q = 4, r = 1.$
 - $q = 0, r = 0.$
 - $q = -5, r = 3.$
- $q = -9, r = 3.$
 - $q = 15, r = 17.$
 - $q = 117, r = 11.$
- $q = 6, r = 19.$
 - $q = -9, r = 54.$
 - $q = 62720, r = 92.$
- $q = 15021, r = 132.$
 - $q = -14940, r = 335.$
 - $q = 39763, r = 3997.$
- 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 .
- 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 .
- Answered in the text.
- 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 $4k + 3$.
- 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.
- 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 $a(k - q + q') < 1$ and we conclude that $k - q + q' = 0$. Therefore $r = r' = 0$, so that $r = r'$ as claimed.

Manual Abstract Algebra Hungerford

Michael Seilmaier



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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

Abstract Algebra Thomas W. Hungerford, 1990-01-01

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to enable students to do computations and write proofs This text stresses the importance of obtaining a solid introduction to the traditional topics while at the same time presenting abstract algebra as a contemporary and very much active subject which is currently being used by working physicists chemists and computer scientists For nearly four decades this classic text has been widely appreciated by instructors and students alike The book offers an enjoyable read and conveys and develops enthusiasm for the beauty of the topics presented It is comprehensive lively and engaging Students will learn how to do computations and write proofs A unique feature of the book are exercises that build the skill of generalizing a skill that students should develop but rarely do Examples elucidate the definitions theorems and proof techniques exercises facilitate understanding provide insight and develop the ability to do proofs The hallmark features of previous editions of the book are enhanced in this edition These include A good mixture of approximately 1900 computational and theoretical exercises appearing in each chapter that synthesizes concepts from multiple chapters Back of the book skeleton solutions and hints to odd numbered exercises Over 300 worked out examples ranging from routine computations to the more challenging Links to interactive True False questions with comments Links to computer exercises that utilize interactive software available on the author's website stressing guessing and making conjectures Many applications from scientific and computing fields as well as some from everyday life Numerous historical notes and biographies that spotlight the people and events behind the mathematics Motivational and humorous quotations Hundreds of figures photographs and tables Changes to the eleventh edition include new exercises examples biographies and quotes and an enrichment of the discussion portions These changes accentuate and enhance the hallmark features that have made previous editions of the book a comprehensive lively and engaging introduction to the subject While many partial solutions and sketches for the odd numbered exercises appear in the book an Instructor's Solutions Manual offers solutions for all the exercises A Student's Solution Manual has comprehensive solutions for all odd numbered exercises many even numbered exercises and numerous alternative solutions as well

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