NUMBER THEORY

For IOQM

STANDARD ALGEBRAIC IDENTITIES

DIVISIBILITY

In this section, whenever a word 'number' is used we would mean 'a natural number' unless specified otherwise. Lets consider two number 'a' and 'b' such that $b \geq a$. We say that 'b' is divisible by 'a', if 'b' is an integral multiple of 'a' i.e., 'a' is a factor of 'b'.

So, 15 is a multiple of 5 and hence 15 is divisible by 5. This is denoted by 5|15. In general, if 'b' is divisible by 'a', then we denote it by a/b

Tests of Divisibility:

Divisibility by 2

a	b

b must be divisible by 2 i.e., remainder = 0.

If the units digit of a number is 0, 2, 4, 6 or 8, then the number is divisible by 2.

For example, 2, 4, 6, 8, 10, 12, ...

Divisibility by 3 and 9

a	b

a + b must be divisible by 3 and 9 respectively i.e., remainder = 0.

If the sum of digits of a number is divisible by 3, then the number is divisible by 3)

For example, 6, 15, 81, 144, 282, ... etc.

Also, if the sum of the digits of a number is divisible by 9, then the number itself is divisible by 9.

For example, 27, 729, 72333 etc.

Divisibility by 4

a	c	b

cb must be divisible by 4 i.e., remainder = 0.

A number is divisible by 4 if the number formed by its last two digits (i.e., units and tens) is divisible by 4.

For example, 24, 84, 124, 1284, 156284 etc.

Divisibility by 5

a	b

b either be 0 or 5 i.e., b must be divisible by 5 i.e., remainder = 0.

If the unit's digit of a number is 0 or 5, then the number is divisible by 5.

For example, 10, 15, 100, 125, 1025 etc.

Divisibility by 6

Studies In Number Theory

Alina Carmen Cojocaru

Studies In Number Theory:

Topics in the Theory of Numbers Janos Suranyi,Paul Erdös,2003-01-14 Number theory the branch of mathematics that studies the properties of the integers is a repository of interesting and quite varied problems sometimes impossibly difficult ones In this book the authors have gathered together a collection of problems from various topics in number theory that they find beautiful intriguing and from a certain point of view instructive **A Comprehensive Course in Number Theory** Alan Baker,2012-08-23 Developed from the author s popular text A Concise Introduction to the Theory of Numbers this book provides a comprehensive initiation to all the major branches of number theory Beginning with the rudiments of the subject the author proceeds to more advanced topics including elements of cryptography and primality testing an account of number fields in the classical vein including properties of their units ideals and ideal classes aspects of analytic number theory including studies of the Riemann zeta function the prime number theorem and primes in arithmetical progressions a description of the Hardy Littlewood and sieve methods from respectively additive and multiplicative number theory and an exposition of the arithmetic of elliptic curves The book includes many worked examples exercises and further reading Its wider coverage and versatility make this book suitable for courses extending from the elementary to beginning graduate studies **Beginning Number Theory** Neville Robbins,2006 Thoroughly Revised And Updated The New Second Edition Of Neville Robbins Beginning Number Theory Includes All Of The Major Topics Covered In A Classic Number Theory Course And Blends In Numerous Applications And Specialized Treatments Of Number Theory Including Cryptology Fibonacci Numbers And Computational Number Theory The Text Strikes A Balance Between Traditional And Algorithmic Approaches To Elementary Number Theory And Is Supported With Numerous Exercises Applications And Case Studies Throughout Computer Exercises For CAS Systems Are Also Included **A Course in Analytic Number Theory** Marius Overholt,2014-12-30 This book is an introduction to analytic number theory suitable for beginning graduate students It covers everything one expects in a first course in this field such as growth of arithmetic functions existence of primes in arithmetic progressions and the Prime Number Theorem But it also covers more challenging topics that might be used in a second course such as the Siegel Walfisz theorem functional equations of L functions and the explicit formula of von Mangoldt For students with an interest in Diophantine analysis there is a chapter on the Circle Method and Waring s Problem Those with an interest in algebraic number theory may find the chapter on the analytic theory of number fields of interest with proofs of the Dirichlet unit theorem the analytic class number formula the functional equation of the Dedekind zeta function and the Prime Ideal Theorem The exposition is both clear and precise reflecting careful attention to the needs of the reader The text includes extensive historical notes which occur at the ends of the chapters The exercises range from introductory problems and standard problems in analytic number theory to interesting original problems that will challenge the reader The author has made an effort to provide clear explanations for the techniques of analysis used No background in

analysis beyond rigorous calculus and a first course in complex function theory is assumed <u>Number Theory</u> Helmut Koch,2000 Algebraic number theory is one of the most refined creations in mathematics It has been developed by some of the leading mathematicians of this and previous centuries The primary goal of this book is to present the essential elements of algebraic number theory including the theory of normal extensions up through a glimpse of class field theory Following the example set for us by Kronecker Weber Hilbert and Artin algebraic functions are handled here on an equal footing with algebraic numbers This is done on the one hand to demonstrate the analogy between number fields and function fields which is especially clear in the case where the ground field is a finite field On the other hand in this way one obtains an introduction to the theory of higher congruences as an important element of arithmetic geometry Early chapters discuss topics in elementary number theory such as Minkowski s geometry of numbers public key cryptography and a short proof of the Prime Number Theorem following Newman and Zagier Next some of the tools of algebraic number theory are introduced such as ideals discriminants and valuations These results are then applied to obtain results about function fields including a proof of the Riemann Roch Theorem and as an application of cyclotomic fields a proof of the first case of Fermat s Last Theorem There are a detailed exposition of the theory of Hecke L series following Tate and explicit applications to number theory such as the Generalized Riemann Hypothesis Chapter 9 brings together the earlier material through the study of quadratic number fields Finally Chapter 10 gives an introduction to class field theory The book attempts as much as possible to give simple proofs It can be used by a beginner in algebraic number theory who wishes to see some of the true power and depth of the subject The book is suitable for two one semester courses with the first four chapters serving to develop the basic material Chapters 6 through 9 could be used on their own as a second semester course *The Whole Truth About Whole Numbers* Sylvia Forman,Agnes M. Rash,2015-01-02 The Whole Truth About Whole Numbers is an introduction to the field of Number Theory for students in non math and non science majors who have studied at least two years of high school algebra Rather than giving brief introductions to a wide variety of topics this book provides an in depth introduction to the field of Number Theory The topics covered are many of those included in an introductory Number Theory course for mathematics majors but the presentation is carefully tailored to meet the needs of elementary education liberal arts and other non mathematical majors The text covers logic and proofs as well as major concepts in Number Theory and contains an abundance of worked examples and exercises to both clearly illustrate concepts and evaluate the students mastery of the material **Studies in Number Theory** William Judson LeVeque,1962 **Introduction to Algebraic Number Theory** Henry B. Mann,Marshall Hall Jr.,2013-03 **Number Theory in Mathematics Education** Rina Zazkis,Stephen R. Campbell,2012-10-12 This book offers multiple interconnected perspectives on the largely untapped potential of elementary number theory for mathematics education its formal and cognitive nature its relation to arithmetic and algebra its accessibility its utility and intrinsic merits to name just a few Its purpose is to promote explication and critical dialogue about

these issues within the international mathematics education community The studies comprise a variety of pedagogical and research orientations by an international group of researchers that collectively make a compelling case for the relevance and importance of number theory in mathematics education in both pre K 16 settings and mathematics teacher education Topics variously engaged include understanding particular concepts related to numerical structure and number theory elaborating on the historical and psychological relevance of number theory in concept development attaining a smooth transition and extension from pattern recognition to formative principles appreciating the aesthetics of number structure exploring its suitability in terms of making connections leading to aha insights and reaching toward the learner s affective domain reexamining previously constructed knowledge from a novel angle investigating connections between technique and theory utilizing computers and calculators as pedagogical tools and generally illuminating the role number theory concepts could play in developing mathematical knowledge and reasoning in students and teachers Overall the chapters of this book highlight number theory related topics as a stepping stone from arithmetic toward generalization and algebraic formalism and as a means for providing intuitively grounded meanings of numbers variables functions and proofs Number Theory in Mathematics Education Perspectives and Prospects is of interest to researchers teacher educators and students in the field of mathematics education and is well suited as a text for upper level mathematics education courses **Number Theory in Mathematics Education** Rina Zazkis,Stephen R. Campbell,2006 This book offers multiple interconnected perspectives on the largely untapped potential of elementary number theory for mathematics education its formal and cognitive nature its relation to arithmetic and algebra its accessibility its utility and intrinsic merits to name just a few Its purpose is to promote explication and critical dialogue about these issues within the international mathematics education community The studies comprise a variety of pedagogical and research orientations by an international group of researchers that collectively make a compelling case for the relevance and importance of number theory in mathematics education in both pre K 16 settings and mathematics teacher education Topics variously engaged include understanding particular concepts related to numerical structure and number theory elaborating on the historical and psychological relevance of number theory in concept development attaining a smooth transition and extension from pattern recognition to formative principles appreciating the aesthetics of number structure exploring its suitability in terms of making connections leading to aha insights and reaching toward the learner s affective domain reexamining previously constructed knowledge from a novel angle investigating connections between technique and theory utilizing computers and calculators as pedagogical tools and generally illuminating the role number theory concepts could play in developing mathematical knowledge and reasoning in students and teachers Overall the chapters of this book highlight number theory related topics as a stepping stone from arithmetic toward generalization and algebraic formalism and as a means for providing intuitively grounded meanings of numbers variables functions and proofs Number Theory in Mathematics Education Perspectives and Prospects is of interest to

researchers teacher educators and students in the field of mathematics education and is well suited as a text for upper level mathematics education courses   Number Theory John J. Watkins,2013-12-29 An introductory textbook with a unique historical approach to teaching number theory The natural numbers have been studied for thousands of years yet most undergraduate textbooks present number theory as a long list of theorems with little mention of how these results were discovered or why they are important This book emphasizes the historical development of number theory describing methods theorems and proofs in the contexts in which they originated and providing an accessible introduction to one of the most fascinating subjects in mathematics Written in an informal style by an award winning teacher Number Theory covers prime numbers Fibonacci numbers and a host of other essential topics in number theory while also telling the stories of the great mathematicians behind these developments including Euclid Carl Friedrich Gauss and Sophie Germain This one of a kind introductory textbook features an extensive set of problems that enable students to actively reinforce and extend their understanding of the material as well as fully worked solutions for many of these problems It also includes helpful hints for when students are unsure of how to get started on a given problem Uses a unique historical approach to teaching number theory Features numerous problems helpful hints and fully worked solutions Discusses fun topics like Pythagorean tuning in music Sudoku puzzles and arithmetic progressions of primes Includes an introduction to Sage an easy to learn yet powerful open source mathematics software package Ideal for undergraduate mathematics majors as well as non math majors Digital solutions manual available only to professors   **WIN -- Women in Numbers** Alina Carmen Cojocaru,2011 This is a collection of papers on number theory which evolved out of the workshop WIN Women In Numbers held November 2 7 2008 It includes articles showcasing outcomes from collaborative research initiated during the workshop as well as survey papers aimed at introducing graduate students and recent PhDs to important research topics in number theory   Reviews in Number Theory 1973-83 Richard K. Guy,1984   Number Theory W.A. Coppel,2006-02-02 Undergraduate courses in mathematics are commonly of two types On the one hand are courses in subjects such as linear algebra or real analysis with which it is considered that every student of mathematics should be acquainted On the other hand are courses given by lecturers in their own areas of specialization which are intended to serve as a preparation for research But after taking courses of only these two types students might not perceive the sometimes surprising interrelationships and analogies between different branches of mathematics and students who do not go on to become professional mathematicians might never gain a clear understanding of the nature and extent of mathematics The two volume Number Theory An Introduction to Mathematics attempts to provide such an understanding of the nature and extent of mathematics It is a modern introduction to the theory of numbers emphasizing its connections with other branches of mathematics Part A which should be accessible to a first year undergraduate deals with elementary number theory Part B is more advanced than the first and should give the reader some idea of the scope of mathematics today The connecting theme is the theory of numbers By exploring its

many connections with other branches we may obtain a broad picture   Number Theory Revealed: An Introduction Andrew Granville,2019-11-12 Number Theory Revealed An Introduction acquaints undergraduates with the Queen of Mathematics The text offers a fresh take on congruences power residues quadratic residues primes and Diophantine equations and presents hot topics like cryptography factoring and primality testing Students are also introduced to beautiful enlightening questions like the structure of Pascal s triangle mod p p and modern twists on traditional questions like the values represented by binary quadratic forms and large solutions of equations Each chapter includes an elective appendix with additional reading projects and references An expanded edition Number Theory Revealed A Masterclass offers a more comprehensive approach to these core topics and adds additional material in further chapters and appendices allowing instructors to create an individualized course tailored to their own and their students interests   **Number Theory in Memory of Eduard Wirsing** Helmut Maier,Jörn Steuding,Rasa Steuding,2023-08-28 Eduard Wirsing was an outstanding number theorist In his research he made significant contributions to various subfields of number theory and also collaborated with other eminent scientists e g with the Fields Medalist Alan Baker as well as Don Zagier This commemorative volume includes numerous papers on current research in number theory by well known experts as well as some personal recollections by companions of Wirsing The topics covered in this volume include arithmetical functions continued fractions elementary proofs of the prime number theorem friable integers the Goldbach problem Dirichlet series Euler products and more There is something for every interested reader   **Number Theory** Titu Andreescu,Dorin Andrica,2009-06-12 This introductory textbook takes a problem solving approach to number theory situating each concept within the framework of an example or a problem for solving Starting with the essentials the text covers divisibility unique factorization modular arithmetic and the Chinese Remainder Theorem Diophantine equations binomial coefficients Fermat and Mersenne primes and other special numbers and special sequences Included are sections on mathematical induction and the pigeonhole principle as well as a discussion of other number systems By emphasizing examples and applications the authors motivate and engage readers and engage readers   *Handbook of Number Theory I* József Sándor,Dragoslav S. Mitrinovic,Borislav Crstici,2005-11-17 This handbook covers a wealth of topics from number theory special attention being given to estimates and inequalities As a rule the most important results are presented together with their refinements extensions or generalisations These may be applied to other aspects of number theory or to a wide range of mathematical disciplines Cross references provide new insight into fundamental research Audience This is an indispensable reference work for specialists in number theory and other mathematicians who need access to some of these results in their own fields of research   Introduction to Number Theory Anthony Vazzana,Martin Erickson,David Garth,2007-10-30 One of the oldest branches of mathematics number theory is a vast field devoted to studying the properties of whole numbers Offering a flexible format for a one or two semester course Introduction to Number Theory uses worked examples numerous exercises and two popular software packages to

describe a diverse array of number theory topics This classroom tested student friendly text covers a wide range of subjects from the ancient Euclidean algorithm for finding the greatest common divisor of two integers to recent developments that include cryptography the theory of elliptic curves and the negative solution of Hilbert s tenth problem The authors illustrate the connections between number theory and other areas of mathematics including algebra analysis and combinatorics They also describe applications of number theory to real world problems such as congruences in the ISBN system modular arithmetic and Euler s theorem in RSA encryption and quadratic residues in the construction of tournaments The book interweaves the theoretical development of the material with Mathematica and MapleTM calculations while giving brief tutorials on the software in the appendices Highlighting both fundamental and advanced topics this introduction provides all of the tools to achieve a solid foundation in number theory   Number Theory W.A. Coppel,2006-02-02 This two volume book is a modern introduction to the theory of numbers emphasizing its connections with other branches of mathematics Part A is accessible to first year undergraduates and deals with elementary number theory Part B is more advanced and gives the reader an idea of the scope of mathematics today The connecting theme is the theory of numbers By exploring its many connections with other branches a broad picture is obtained The book contains a treasury of proofs several of which are gems seldom seen in number theory books

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