Number Theory

Factorial Factors: The factorials: $n! = 1 \cdot 2 \cdot \ \cdots \ \cdot n = \prod_{k=1}^{n} k$, integer $n \geq 0$

We can find out factorial of an integer n using following recursive formula:

$0! = 1$

$n! = n(n-1)!$, for $n > 0$

Here are the first few values of the factorial function.

n	0	1	2	3	4	5	6	7	8	9	10
$n!$	0	1	2	6	24	120	720	5040	40320	362880	3628800

Because of it's exponential nature it's very difficult to find a closed form of factorial. To approximate $n!$ more accurately for large n we can use Stirling's formula:

$$n! \approx \sqrt{2\pi n}\left(\frac{n}{e}\right)^n$$

We would like to determine, for any given prime p, the largest power of p that divides $n!$; that is we want the exponent of p in $n!$'s unique factorization. We denote this number by $\varepsilon_p(n!)$, and we start our investigations with the small case $p = 2$ and $n = 10$.

	1	2	3	4	5	6	7	8	9	10	Powers of 2
Divisible by 2		X		X		X		X		X	$5 = \lfloor 10/2 \rfloor$
Divisible by 4				X				X			$2 = \lfloor 10/4 \rfloor$
Divisible by 8								X			$1 = \lfloor 10/8 \rfloor$
Powers of 2	0	1	0	2	0	1	0	3	0	1	8

For general n this method gives, $\varepsilon_2(n!) = \left\lfloor \frac{n}{2} \right\rfloor + \left\lfloor \frac{n}{4} \right\rfloor + \left\lfloor \frac{n}{8} \right\rfloor + \cdots = \sum_{k \geq 1} \left\lfloor \frac{n}{2^k} \right\rfloor$

This sum is actually finite, since the summand is zero when $2^k > n$. Therefore it has only $\lfloor \lg n \rfloor$ nonzero terms, and it's computationally quite easy. For instance, if n = 100,

$$\varepsilon_2(100!) = \left\lfloor \frac{100}{2} \right\rfloor + \left\lfloor \frac{100}{4} \right\rfloor + \left\lfloor \frac{100}{8} \right\rfloor + \left\lfloor \frac{100}{16} \right\rfloor + \left\lfloor \frac{100}{32} \right\rfloor + \left\lfloor \frac{100}{64} \right\rfloor = 50 + 25 + 12 + 6 + 3 + 1 = 97$$

Let's look at the binary representation of all numbers to find out what's going on.

$100 = (1100100)_2 = 100$

$\left\lfloor \frac{100}{2} \right\rfloor = (110010)_2 = 50$

$\left\lfloor \frac{100}{4} \right\rfloor = (11001)_2 = 25$

$\left\lfloor \frac{100}{8} \right\rfloor = (1100)_2 = 12$

$\left\lfloor \frac{100}{16} \right\rfloor = (110)_2 = 6$

$\left\lfloor \frac{100}{32} \right\rfloor = (11)_2 = 3$

$\left\lfloor \frac{100}{64} \right\rfloor = (1)_2 = 1$

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David Pengelley

Course In Number Theory:

    <u>A Course in Number Theory and Cryptography</u> Neal Koblitz,1987 The purpose of this book is to introduce the reader to arithmetic topics both ancient and modern that have been at the center of interest in applications of number theory particularly in cryptography Because number theory and cryptography are fast moving fields this new edition contains substantial revisions and updated references   **A Course in Number Theory** H. E. Rose,1995 The second edition of this undergraduate textbook is now available in paperback Covering up to date as well as established material it is the only textbook which deals with all the main areas of number theory taught in the third year of a mathematics course Each chapter ends with a collection of problems and hints and sketch solutions are provided at the end of the book together with useful tables   **Analytic Number Theory: An Introductory Course** Paul Trevier Bateman,Harold G Diamond,2004-09-07 This valuable book focuses on a collection of powerful methods of analysis that yield deep number theoretical estimates Particular attention is given to counting functions of prime numbers and multiplicative arithmetic functions Both real variable elementary and complex variable analytic methods are employed The reader is assumed to have knowledge of elementary number theory abstract algebra will also do and real and complex analysis Specialized analytic techniques including transform and Tauberian methods are developed as needed Comments and corrigenda for the book are found at www math uiuc edu diamond   <u>A Comprehensive Course in Number Theory</u> Alan Baker,2012 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   **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 **A First Course In Theory Of Numbers** K. C. Chowdhury,2007-07-01 Contents Number System Congruencies And Its Basic Properties Algebraic Congruences And Primitive Roots Arithmetic Functions Farey Sequence Continued Fraction Pell S Equations Quadratic Residues Levender S Symbols Jacobi S Symbols Homogeneous Quadratic Diophantine Equation Some Number Theoretic Problems Related To Mathematics Olympiads Answers Etc **Number Theory and Geometry: An Introduction to Arithmetic Geometry** Álvaro Lozano-Robledo,2019-03-21 Geometry and the theory of numbers are as old as some of the oldest historical records of humanity Ever since antiquity mathematicians have discovered many beautiful interactions between the two subjects and recorded them in such classical texts as Euclid s Elements and Diophantus s Arithmetica Nowadays the field of mathematics that studies the interactions between number theory and algebraic geometry is known as arithmetic geometry This book is an introduction to number theory and arithmetic geometry and the goal of the text is to use geometry as the motivation to prove the main theorems in the book For example the fundamental theorem of arithmetic is a consequence of the tools we develop in order to find all the integral points on a line in the plane Similarly Gauss s law of quadratic reciprocity and the theory of continued fractions naturally arise when we attempt to determine the integral points on a curve in the plane given by a quadratic polynomial equation After an introduction to the theory of diophantine equations the rest of the book is structured in three acts that correspond to the study of the integral and rational solutions of linear quadratic and cubic curves respectively This book describes many applications including modern applications in cryptography it also presents some recent results in arithmetic geometry With many exercises this book can be used as a text for a first course in number theory or for a subsequent course on arithmetic or diophantine geometry at the junior senior level **Number Theory Through the Eyes of Sophie Germain** David Pengelley,2023-06-29 Number Theory Through the Eyes of Sophie Germain An Inquiry Course is an innovative textbook for an introductory number theory course Sophie Germain 1776 1831 was largely self taught in mathematics and two centuries ago in solitude devised and implemented a plan to prove Fermat s Last Theorem We have only recently completely understood this work from her unpublished letters and manuscripts David Pengelley has been a driving force in unraveling this mystery and here he masterfully guides his readers along a path of discovery Germain because of her circumstances as the first woman to do important original mathematical research was forced to learn most of what we now include in an undergraduate number theory course for herself Pengelley has taken excerpts of her writings and those of others and by asking his readers to decipher them skillfully leads us through an inquiry

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A Course in Algebraic Number Theory Robert B. Ash,2010-01-01 This text for a graduate level course covers the general theory of factorization of ideals in Dedekind domains as well as the number field case It illustrates the use of Kummer s theorem proofs of the Dirichlet unit theorem and Minkowski bounds on element and ideal norms 2003 edition   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   An Introductory Course in Elementary Number Theory Wissam Raji,2013-05-09 These notes serve as course notes for an undergraduate course in number theory Most if not all universities worldwide offer introductory courses in number theory for math majors and in many cases as an elective course The notes contain a useful introduction to important topics that need to be addressed in a course in number theory Proofs of basic theorems are presented in an interesting and comprehensive way that can be read and understood even by non majors with the exception in the last three chapters where a background in analysis measure theory and abstract algebra is required The exercises are carefully chosen to broaden the understanding of the concepts Moreover these notes shed light on analytic number theory a subject that is rarely seen or approached by undergraduate students One of the unique characteristics of these notes is the careful choice of topics and its importance in the theory of numbers The freedom is given in the last two chapters because of the advanced nature of the topics that are presented   Elementary Number Theory James K. Strayer,2001-12-04 In this student friendly text Strayer presents all of the topics necessary for a first course in number theory Additionally chapters on primitive

roots Diophantine equations and continued fractions allow instructors the flexibility to tailor the material to meet their own classroom needs Each chapter concludes with seven Student Projects one of which always involves programming a calculator or computer All of the projects not only engage students in solving number theoretical problems but also help familiarize them with the relevant mathematical literature **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 topi **An Introduction to Number Theory** Harold M. Stark,1978-05-30 The majority of students who take courses in number theory are mathematics majors who will not become number theorists Many of them will however teach mathematics at the high school or junior college level and this book is intended for those students learning to teach in addition to a careful presentation of the standard material usually taught in a first course in elementary number theory this book includes a chapter on quadratic fields which the author has designed to make students think about some of the obvious concepts they have taken for granted earlier The book also includes a large number of exercises many of which are nonstandard Number Theory Tristin Cleveland,2018-04-11 In spite of the fact that arithmetic majors are generally familiar with number hypothesis when they have finished a course in conceptual polynomial math different students particularly those in training and the human sciences regularly require a more essential prologue to the theme In this book the writer takes care of the issue of keeping up the enthusiasm of understudies at the two levels by offering a combinatorial way to deal with basic number hypothesis In concentrate number hypothesis from such a point of view arithmetic majors are saved reiteration and furnished with new bits of knowledge while different understudies advantage from the subsequent effortlessness of the verifications for some hypotheses Of specific significance in this content is the creator s accentuation on the estimation of numerical cases in number hypothesis and the part of PCs in getting such illustrations The point of this book is to acquaint the reader with essential subjects in number hypothesis hypothesis of distinctness arithmetical capacities prime numbers geometry of numbers added substance number hypothesis probabilistic number hypothesis hypothesis of Diophantine approximations and logarithmic number hypothesis A Course in Arithmetic J-P. Serre,2012-12-06 This book is divided into two parts The first one is purely algebraic Its objective is the classification of quadratic forms over the field of rational numbers Hasse Minkowski theorem It is achieved in Chapter IV The first three chapters contain some preliminaries quadratic reciprocity law p adic fields Hilbert symbols Chapter V applies the preceding results to integral quadratic forms of discriminant I These forms occur in various questions modular functions differential topology finite groups The second part Chapters VI and VII uses analytic methods holomor phic functions Chapter VI gives the proof of the theorem on arithmetic progressions due to Dirichlet this theorem is used at a critical point in the first part

Chapter Ill no 2 2 Chapter VII deals with modular forms and in particular with theta functions Some of the quadratic forms of Chapter V reappear here The two parts correspond to lectures given in 1962 and 1964 to second year students atthe Ecole Normale Superieure A redaction of these lectures in the form of duplicated notes was made by J J Sansuc Chapters I IV and J P Ramis and G Ruget Chapters VI VII They were very useful to me I extend here my gratitude to their authors

Elementary Number Theory in Nine Chapters James J. Tattersall,1999-10-14 This book is intended to serve as a one semester introductory course in number theory Throughout the book a historical perspective has been adopted and emphasis is given to some of the subject s applied aspects in particular the field of cryptography is highlighted At the heart of the book are the major number theoretic accomplishments of Euclid Fermat Gauss Legendre and Euler and to fully illustrate the properties of numbers and concepts developed in the text a wealth of exercises have been included It is assumed that the reader will have pencil in hand and ready access to a calculator or computer For students new to number theory whatever their background this is a stimulating and entertaining introduction to the subject **Introduction to Number Theory** Daniel E. Flath,2018-09-27 Growing out of a course designed to teach Gauss s Disquisitiones Arithmeticae to honors level undergraduates Flath s Introduction to Number Theory focuses on Gauss s theory of binary quadratic forms It is suitable for use as a textbook in a course or self study by advanced undergraduates or graduate students who possess a basic familiarity with abstract algebra The text treats a variety of topics from elementary number theory including the distribution of primes sums of squares continued factions the Legendre Jacobi and Kronecker symbols the class group and genera But the focus is on quadratic reciprocity several proofs are given including one that highlights the p q symmetry and binary quadratic forms The reader will come away with a good understanding of what Gauss intended in the Disquisitiones and Dirichlet in his Vorlesungen The text also includes a lovely appendix by J P Serre titled b2 4ac The clarity of the author s vision is matched by the clarity of his exposition This is a book that reveals the discovery of the quadratic core of algebraic number theory It should be on the desk of every instructor of introductory number theory as a source of inspiration motivation examples and historical insight *Elements of the Theory of Numbers* Joseph B. Dence,Thomas P. Dence,1999-01-20 Elements of the Theory of Numbers teaches students how to develop implement and test numerical methods for standard mathematical problems The authors have created a two pronged pedagogical approach that integrates analysis and algebra with classical number theory Making greater use of the language and concepts in algebra and analysis than is traditionally encountered in introductory courses this pedagogical approach helps to instill in the minds of the students the idea of the unity of mathematics Elements of the Theory of Numbers is a superb summary of classical material as well as allowing the reader to take a look at the exciting role of analysis and algebra in number theory In depth coverage of classical number theory Thorough discussion of the theory of groups and rings Includes application of Taylor polynomials Contains more advanced material than other texts Illustrates the results of a theorem with an example Excellent presentation of the standard

computational exercises Nearly 1000 problems many are proof oriented several others require the writing of computer programs to complete the computations Clear and well motivated presentation Provides historical references noting distinguished number theory luminaries such as Euclid de Fermat Hilbert Brun and Lehmer to name a few Annotated bibliographies appear at the end of all of the chapters **An Introduction to Commutative Algebra and Number Theory** Sukumar Das Adhikari,2001-11 This is an elementary introduction to algebra and number theory The text begins by a review of groups rings and fields The algebra portion addresses polynomial rings UFD PID and Euclidean domains field extensions modules and Dedckind domains The number theory portion reviews elementary congruence quadratic reciprocity algebraic number fields and a glimpse into the various aspects of that subject This book could be used as a one semester course in graduate mathematics

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