

NUMBER THEORY PROBLEMS

Question: If a number consists of units digit as a and the ten's digit as b , such a number is:

- (a) $b + a$
- (b) bx
- (c) $10b + a$
- (d) $10a + b$

Ans: (c)

Question: If a number consists of units digit as 6 and the ten's digit as 5, such a number is:

- (a) 65
- (b) 56
- (c) 605
- (d) 506

Ans: (b)

Question: If n is even, $n(n^2 - 1)$ is always divisible by:

- (a) 6
- (b) 8
- (c) 15
- (d) 17

Ans: (a)

Question: If n is odd, $n(n^2 - 1)$ is always divisible by:

- (a) 18
- (b) 20
- (c) 24
- (d) 32

Ans: (c)

Question: If n is even number, then $n(n^2 + 10)$ is always divisible by:

- (a) 10
- (b) 4
- (c) 6
- (d) 28

Ans: (b)

Question: 9876543210 is divisible by:

- (a) 5, 9 and 11
- (b) 5, 9 but not by 11
- (c) 9 and 11 but not by 5
- (d) 11 and 5 but not by 9

Ans: (b)

Question: If a four digit number 2AB5 (A and B digits) is divisible by 9, then the number AB is:

- (a) 38
- (b) 24
- (c) 44
- (d) 13

Number Theory And Related Topics

**B. Ramakrishnan, Bernhard
Heim, Brundaban Sahu**



Number Theory And Related Topics:

Bulletin of Number Theory and Related Topics, 1981 *Analytic Number Theory And Related Topics - Proceedings Of The Conference* Kenji Nagasaka, 1993-08-26 The proceedings consists of invited papers by distinguished mathematicians reviewing the recent progress in analytic number theory and related topics Papers on Diophantine approximations zeta functions Dirichlet L functions normal numbers dispersion of multi dimensional sequences Diophantine equations etc are also presented **Vertex Operator Algebras, Number Theory and Related Topics** Matthew Krauel, Michael Tuite, Gaywalee Yamskulna, 2020-07-13 This volume contains the proceedings of the International Conference on Vertex Operator Algebras Number Theory and Related Topics held from June 11 15 2018 at California State University Sacramento California The mathematics of vertex operator algebras vector valued modular forms and finite group theory continues to provide a rich and vibrant landscape in mathematics and physics The resurgence of moonshine related to the Mathieu group and other groups the increasing role of algebraic geometry and the development of irrational vertex operator algebras are just a few of the exciting and active areas at present The proceedings center around active research on vertex operator algebras and vector valued modular forms and offer original contributions to the areas of vertex algebras and number theory surveys on some of the most important topics relevant to these fields introductions to new fields related to these and open problems from some of the leaders in these areas **Modular Forms and Related Topics in Number Theory** B. Ramakrishnan, Bernhard Heim, Brundaban Sahu, 2020-11-24 This book collects the papers presented at the Conference on Number Theory held at the Kerala School of Mathematics Kozhikode Kerala India from December 10 14 2018 The conference aimed at bringing the active number theorists and researchers in automorphic forms and allied areas to demonstrate their current research works This book benefits young research scholars postdoctoral fellows and young faculty members working in these areas of research **Number Theory** R.P. Bambah, V.C. Dumir, R.J. Hans-Gill, 2012-12-06 The Indian National Science Academy on the occasion of the Golden Jubilee Celebration Fifty years of India's Independence decided to publish a number of monographs on the selected fields The editorial board of INS A invited us to prepare a special monograph in Number Theory In response to this assignment we invited several eminent Number Theorists to contribute expository research articles for this monograph on Number Theory Although some of those invited due to other preoccupations could not respond positively to our invitation we did receive fairly encouraging response from many eminent and creative number theorists throughout the world These articles are presented herewith in a logical order We are grateful to all those mathematicians who have sent us their articles We hope that this monograph will have a significant impact on further development in this subject R P Bambah v C Dumir R J Hans Gill A Centennial History of the Prime Number Theorem Tom M Apostol The Prime Number Theorem Among the thousands of discoveries made by mathematicians over the centuries some stand out as significant landmarks One of these is the prime number theorem which describes the asymptotic distribution of prime numbers It can be stated in

various equivalent forms two of which are $x \mid K[X]$ as $x \mid 00 \text{ ogx}$ and $P_n \mid n \log n$ as $n \mid 00 \mid 2 \mid n \mid 1 \mid K[X]$ denotes the number of primes $P \mid x$ for any $x \in \mathbb{O}$ *Number Theory, Geometry and Related Topics*, 1996 *Number Theory Related to Modular Curves* Joan-Carles Lario, V. Kumar Murty, 2018-01-29 This volume contains the proceedings of the Barcelona Boston Tokyo Number Theory Seminar which was held in memory of Fumiyuki Momose a distinguished number theorist from Chuo University in Tokyo Momose who was a student of Yasutaka Ihara made important contributions to the theory of Galois representations attached to modular forms rational points on elliptic and modular curves modularity of some families of Abelian varieties and applications of arithmetic geometry to cryptography Papers contained in this volume cover these general themes in addition to discussing Momose's contributions as well as recent work and new results **Number Theory** Takashi Aoki, Shigeru Kanemitsu, Jianya Liu, 2010 This volume aims at collecting survey papers which give broad and enlightening perspectives of various aspects of number theory Kitaoka's paper is a continuation of his earlier paper published in the last proceedings and pushes the research forward Browning's paper introduces a new direction of research on analytic number theory OCo quantitative theory of some surfaces and Bruedern et al's paper details state of the art affairs of additive number theory There are two papers on modular forms OCo Kohnen's paper describes generalized modular forms GMF which has some applications in conformal field theory while Liu's paper is very useful for readers who want to have a quick introduction to Maass forms and some analytic number theoretic problems related to them Matsumoto et al's paper gives a very thorough survey on functional relations of root system zeta functions Hoshi OCo Miyake's paper is a continuation of Miyake's long and fruitful research on generic polynomials and gives rise to related Diophantine problems and Jia's paper surveys some dynamical aspects of a special arithmetic function connected with the distribution of prime numbers There are two papers of collections of problems by Shparlinski on exponential and character sums and Schinzel on polynomials which will serve as an aid for finding suitable research problems Yamamura's paper is a complete bibliography on determinant expressions for a certain class number and will be useful to researchers Thus the book gives a good balance of classical and modern aspects in number theory and will be useful to researchers including enthusiastic graduate students Sample Chapter s Chapter 1 Recent Progress on the Quantitative Arithmetic of Del Pezzo Surfaces 329 KB Contents Recent Progress on the Quantitative Arithmetic of Del Pezzo Surfaces T D Browning Additive Representation in Thin Sequences VIII Diophantine Inequalities in Review J Brdern et al Recent Progress on Dynamics of a Special Arithmetic Function C H Jia Some Diophantine Problems Arising from the Isomorphism Problem of Generic Polynomials A Hoshi A Statistical Relation of Roots of a Polynomial in Different Local Fields II Y Kitaoka Generalized Modular Functions and Their Fourier Coefficients W Kohnen Functional Relations for Zeta Functions of Root Systems Y Komori et al A Quick Introduction to Maass Forms J Y Liu The Number of Non Zero Coefficients of a Polynomial Solved and Unsolved Problems A Schinzel Open Problems on Exponential and Character Sums I E Shparlinski Errata to OC A General Modular Relation in Analytic Number Theory OCO H

Tsukada Bibliography on Determinantal Expressions of Relative Class Numbers of Imaginary Abelian Number Fields K Yamamura Readership Graduate students and researchers in mathematics

Class Groups of Number Fields and Related Topics Kalyan Chakraborty, Azizul Hoque, Prem Prakash Pandey, 2024-12-02 This book collects original research papers and survey articles presented at two conferences on the same theme the International Conference on Class Groups of Number Fields and Related Topics held at Kerala School of Mathematics Kozhikode Kerala India from 21-24 October 2021 and then from 21-24 November 2022 It presents the fundamental research problems that arise in the study of class groups of number fields and related areas The book also covers some new techniques and tools to study these problems Topics in this book include class groups of number fields units Ankeny Artin Chowla conjecture Iwasawa theory elliptic curves Diophantine equations partition functions Diophantine tuples congruent numbers Carmichael ideals in a number field and their connection with class groups This book will be a valuable resource for graduate students and researchers in mathematics interested in class groups of number fields and their connections to other branches of mathematics It also attracts new researchers to the field and young researchers will benefit immensely from the diverse problems discussed in this book All the contributing authors are leading academicians scientists and profound researchers This book is dedicated to Prof Michel Waldschmidt a renowned French number theorist on his 75th birthday

Abelian Varieties and Number Theory Moshe Jarden, Tony Shaska, 2021-05-03 This book is a collection of articles on Abelian varieties and number theory dedicated to Gerhard Frey's 75th birthday It contains original articles by experts in the area of arithmetic and algebraic geometry The articles cover topics on Abelian varieties and finitely generated Galois groups ranks of Abelian varieties and Mordell Lang conjecture Tate Shafarevich group and isogeny volcanoes endomorphisms of superelliptic Jacobians obstructions to local global principles over semi global fields Drinfeld modular varieties representations of étale fundamental groups and specialization of algebraic cycles Deuring's theory of constant reductions etc The book will be a valuable resource to graduate students and experts working on Abelian varieties and related areas

Unsolved Problems in Number Theory Richard Guy, 2013-03-09 Mathematics is kept alive by the appearance of new unsolved problems problems posed from within mathematics itself and also from the increasing number of disciplines where mathematics is applied This book provides a steady supply of easily understood if not easily solved problems which can be considered in varying depths by mathematicians at all levels of mathematical maturity For this new edition the author has included new problems on symmetric and asymmetric primes sums of higher powers Diophantine m -tuples and Conway's RATS and palindromes The author has also included a useful new feature at the end of several of the sections lists of references to OEIS Neil Sloane's Online Encyclopedia of Integer Sequences About the first Edition many talented young mathematicians will write their first papers starting out from problems found in this book András Skrzimski MathSciNet

Number Theory and Related Fields Jonathan M. Borwein, Igor Shparlinski, Wadim Zudilin, 2013-05-16 Number Theory and Related Fields collects contributions

based on the proceedings of the International Number Theory Conference in Memory of Alf van der Poorten hosted by CARMA and held March 12-16th 2012 at the University of Newcastle Australia. The purpose of the conference was to promote number theory research in Australia while commemorating the legacy of Alf van der Poorten who had written over 170 papers on the topic of number theory and collaborated with dozens of researchers. The research articles and surveys presented in this book were written by some of the most distinguished mathematicians in the field of number theory and articles will include related topics that focus on the various research interests of Dr van der Poorten. *Number Theory and Modular Forms* Bruce C. Berndt, Ken Ono, 2013-11-11 Robert A Rankin one of the world's foremost authorities on modular forms and a founding editor of The Ramanujan Journal died on January 27 2001 at the age of 85. Rankin had broad interests and contributed fundamental papers in a wide variety of areas within number theory geometry analysis and algebra. To commemorate Rankin's life and work the editors have collected together 25 papers by several eminent mathematicians reflecting Rankin's extensive range of interests within number theory. Many of these papers reflect Rankin's primary focus in modular forms. It is the editors' fervent hope that mathematicians will be stimulated by these papers and gain a greater appreciation for Rankin's contributions to mathematics. This volume would be an inspiration to students and researchers in the areas of number theory and modular forms. *Combinatorial Number Theory* Bruce Landman, Melvyn B.

Nathanson, Jaroslav Nesetril, Richard J. Nowakowski, Carl Pomerance, 2011-12-22 This carefully edited volume contains selected refereed papers based on lectures presented by many distinguished speakers at the Integers Conference 2005 an international conference in combinatorial number theory. The conference was held in celebration of the 70th birthday of Ronald Graham a leader in several fields of mathematics. *Automorphisms of Riemann Surfaces, Subgroups of Mapping Class Groups and Related Topics* Aaron Wootton, S. Allen Broughton, Jennifer Paulhus, 2022-02-03 Automorphism groups of Riemann surfaces have been widely studied for almost 150 years. This area has persisted in part because it has close ties to many other topics of interest such as number theory graph theory mapping class groups and geometric and computational group theory. In recent years there has been a major revival in this area due in part to great advances in computer algebra systems and progress in finite group theory. This volume provides a concise but thorough introduction for newcomers to the area while at the same time highlighting new developments for established researchers. The volume starts with two expository articles. The first of these articles gives a historical perspective of the field with an emphasis on highly symmetric surfaces such as Hurwitz surfaces. The second expository article focuses on the future of the field outlining some of the more popular topics in recent years and providing 78 open research problems across all topics. The remaining articles showcase new developments in the area and have specifically been chosen to cover a variety of topics to illustrate the range of diversity within the field. *Number Theory for the Millennium III* M.A. Bennett, Bruce Berndt, N. Boston, A.J. Hildebrand, H.G. Diamond, W. Philipp, 2023-03-17 Building on the tradition of an outstanding series of conferences at the University of Illinois

at Urbana Champaign the organizers attracted an international group of scholars to open the new Millennium with a conference that reviewed the current state of number theory research and pointed to future directions in the field The conference was the largest general number theory conference in recent history featuring a total of 159 talks with the plenary lectures given by George Andrews Jean Bourgain Kevin Ford Ron Graham Andrew Granville Roger Heath Brown Christopher Hooley Winnie Li Kumar Murty Mel Nathanson Ken Ono Carl Pomerance Bjorn Poonen Wolfgang Schmidt Chris Skinner K Soundararajan Robert Tijdeman Robert Vaughan and Hugh Williams The Proceedings Volumes of the conference review some of the major number theory achievements of this century and to chart some of the directions in which the subject will be heading during the new century These volumes will serve as a useful reference to researchers in the area and an introduction to topics of current interest in number theory for a general audience in mathematics

Recent Developments in Integrable Systems and Related Topics of Mathematical Physics Victor M. Buchstaber, Sotiris Konstantinou-Rizos, Alexander V. Mikhailov, 2018-12-30 This volume whose contributors include leading researchers in their field covers a wide range of topics surrounding Integrable Systems from theoretical developments to applications Comprising a unique collection of research articles and surveys the book aims to serve as a bridge between the various areas of Mathematics related to Integrable Systems and Mathematical Physics Recommended for postgraduate students and early career researchers who aim to acquire knowledge in this area in preparation for further research this book is also suitable for established researchers aiming to get up to speed with recent developments in the area and may very well be used as a guide for further study

Number Theory with an Emphasis on the Markoff Spectrum Andrew Pollington, 2017-10-05 Presenting the proceedings of a recently held conference in Provo Utah this reference provides original research articles in several different areas of number theory highlighting the Markoff spectrum Detailing the integration of geometric algebraic analytic and arithmetic ideas Number Theory with an Emphasis on the Markoff Spectrum contains refereed contributions on general problems of diophantine approximation quadratic forms and their connections with automorphic forms the modular group and its subgroups continued fractions hyperbolic geometry and the lower part of the Markoff spectrum Written by over 30 authorities in the field this book should be a useful resource for research mathematicians in harmonic analysis number theory algebra geometry and probability and graduate students in these disciplines

Handbook of Number Theory II J. Sándor, B. Crstici, 2004 This handbook focuses on some important topics from Number Theory and Discrete Mathematics These include the sum of divisors function with the many old and new issues on Perfect numbers Euler's totient and its many facets the Möbius function along with its generalizations extensions and applications the arithmetic functions related to the divisors or the digits of a number the Stirling Bell Bernoulli Euler and Eulerian numbers with connections to various fields of pure or applied mathematics Each chapter is a survey and can be viewed as an encyclopedia of the considered field underlining the interconnections of Number Theory with Combinatorics Numerical mathematics Algebra or Probability

Theory This reference work will be useful to specialists in number theory and discrete mathematics as well as mathematicians or scientists who need access to some of these results in other fields of research *Number Theory: Arithmetic In Shangri-la - Proceedings Of The 6th China-japan Seminar* Shigeru Kanemitsu,Hongze Li,Jianya Liu,2013-02-20
This volume is based on the successful 6th China Japan Seminar on number theory that was held in Shanghai Jiao Tong University in August 2011 It is a compilation of survey papers as well as original works by distinguished researchers in their respective fields The topics range from traditional analytic number theory additive problems divisor problems Diophantine equations to elliptic curves and automorphic L functions It contains new developments in number theory and the topics complement the existing two volumes from the previous seminars which can be found in the same book series

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