

# Infinitely many rational points

- $X_1(5)$ :  $b - c = 0 \Rightarrow E(b, b)$  is an elliptic curve defined over  $\mathbb{Q}$  with a rational torsion point of order 5.

$$E(b, b): y^2 + (1-b)xy - by = x^3 - bx^2; \quad b \in \mathbb{Q}.$$

- When does a modular curve has infinitely many  $K$ -rational points with a number field  $K$ ?

# Many Rational Points

**Timothy Gowers, June Barrow-  
Green, Imre Leader**

## Many Rational Points:

**Many Rational Points** N.E. Hurt, 2003-11-30 This monograph presents a comprehensive treatment of recent results on algebraic geometry as they apply to coding theory and cryptography with the goal the study of algebraic curves and varieties with many rational points. The book surveys recent developments on abelian varieties in particular the classification of abelian surfaces hyperelliptic curves modular towers Kloosterman curves and codes Shimura curves and modular jacobian surfaces. Applications of abelian varieties to cryptography are presented including a discussion of hyperelliptic curve cryptosystems. The inter relationship of codes and curves is developed building on Goppa's results on algebraic geometry codes. The volume provides a source book of examples with relationships to advanced topics regarding Sato Tate conjectures Eichler Selberg trace formula Katz Sarnak conjectures and Hecke operators

Automated Deduction in Geometry  
Dongming Wang, 1998-03-18 This book constitutes the thoroughly refereed and revised post workshop proceedings of the International Workshop on Automated Deduction in Geometry held in Toulouse France in September 1996. The revised extended papers accepted for inclusion in the volume were selected on the basis of double reviewing. Among the topics covered are automated geometric reasoning and the deduction applied to Dixon resultants Gröbner bases characteristic sets computational geometry algebraic geometry and planet motion furthermore the system REDLOG is demonstrated and the verification of geometric statements as well as the automated production of proof in Euclidean Geometry are present

**The Moduli Space of Curves** R. Dijkgraaf, Carel Faber, Gerard B.M. van der Geer, 1995-10-18 The moduli space  $M_g$  of curves of fixed genus  $g$  that is the algebraic variety that parametrizes all curves of genus  $g$  is one of the most intriguing objects of study in algebraic geometry these days. Its appeal results not only from its beautiful mathematical structure but also from recent developments in theoretical physics in particular in conformal field theory. Leading experts in the field explore in this volume both the structure of the moduli space of curves and its relationship with physics through quantum cohomology. Altogether this is a lively volume that testifies to the ferment in the field and gives an excellent view of the state of the art for both mathematicians and theoretical physicists. It is a persuasive example of the famous Wigner's comment and its converse on the unreasonable effectiveness of mathematics in the natural science. Witten's conjecture in 1990 describing the intersection behavior of tautological classes in the cohomology of  $M_g$  arose directly from string theory. Shortly thereafter a stunning proof was provided by Kontsevich who in this volume describes his solution to the problem of counting rational curves on certain algebraic varieties and includes numerous suggestions for further development. The same problem is given an elegant treatment in a paper by Manin. There follows a number of contributions to the geometry, cohomology and arithmetic of the moduli spaces of curves. In addition several contributors address quantum cohomology and conformal field theory

*Rational Points on Varieties* Bjorn Poonen, 2017-12-13 This book is motivated by the problem of determining the set of rational points on a variety but its true goal is to equip readers with a broad range of tools essential for current

research in algebraic geometry and number theory. The book is unconventional in that it provides concise accounts of many topics instead of a comprehensive account of just one. This is intentionally designed to bring readers up to speed rapidly. Among the topics included are Brauer groups, faithfully flat descent, algebraic groups, torsors, tale and fppf cohomology, the Weil conjectures and the Brauer-Manin and descent obstructions. A final chapter applies all these to study the arithmetic of surfaces. The down to earth explanations and the over 100 exercises make the book suitable for use as a graduate level textbook but even experts will appreciate having a single source covering many aspects of geometry over an unrestricted ground field and containing some material that cannot be found elsewhere.

### **Elementary Theory of Numbers** W.

Sierpinski, 1988-02-01. Since the publication of the first edition of this work considerable progress has been made in many of the questions examined. This edition has been updated and enlarged and the bibliography has been revised. The variety of topics covered here includes divisibility, diophantine equations, prime numbers (especially Mersenne and Fermat primes), the basic arithmetic functions, congruences, the quadratic reciprocity law, expansion of real numbers into decimal fractions, decomposition of integers into sums of powers, some other problems of the additive theory of numbers and the theory of Gaussian integers.

### **Rational Points on Curves Over Finite Fields** Harald Niederreiter, Chaoping Xing, 2001-06-14

Ever since the seminal work of Goppa on algebraic geometry codes, rational points on algebraic curves over finite fields have been an important research topic for algebraic geometers and coding theorists. The focus in this application of algebraic geometry to coding theory is on algebraic curves over finite fields with many rational points relative to the genus. Recently the authors discovered another important application of such curves, namely to the construction of low-discrepancy sequences. These sequences are needed for numerical methods in areas as diverse as computational physics and mathematical finance. This has given additional impetus to the theory of and the search for algebraic curves over finite fields with many rational points. This book aims to sum up the theoretical work on algebraic curves over finite fields with many rational points and to discuss the applications of such curves to algebraic coding theory and the construction of low-discrepancy sequences.

### **Numbers and**

**Geometry** John Stillwell, 1997-10-30. A beautiful and relatively elementary account of a part of mathematics where three main fields—algebra, analysis, and geometry—meet. The book provides a broad view of these subjects at the level of calculus, without being a calculus book. Its roots are in arithmetic and geometry—the two opposite poles of mathematics—and the source of historic conceptual conflict. The resolution of this conflict, and its role in the development of mathematics, is one of the main stories in the book. Stillwell has chosen an array of exciting and worthwhile topics and elegantly combines mathematical history with mathematics. He covers the main ideas of Euclid but with 2000 years of extra insights attached. Presupposing only high school algebra, it can be read by any well prepared student entering university. Moreover, this book will be popular with graduate students and researchers in mathematics due to its attractive and unusual treatment of fundamental topics. A set of well written exercises at the end of each section allows new ideas to be instantly tested and reinforced.

### **Finite**

**Fields: Theory and Computation** Igor Shparlinski, 2013-03-09 This book is mainly devoted to some computational and algorithmic problems in finite fields such as for example polynomial factorization finding irreducible and primitive polynomials the distribution of these primitive polynomials and of primitive points on elliptic curves constructing bases of various types and new applications of finite fields to other areas of mathematics For completeness we include two special chapters on some recent advances and applications of the theory of congruences optimal coefficients congruential pseudo random number generators modular arithmetic etc and computational number theory primality testing factoring integers computation in algebraic number theory etc The problems considered here have many applications in Computer Science Coding Theory Cryptography Numerical Methods and so on There are a few books devoted to more general questions but the results contained in this book have not till now been collected under one cover In the present work the author has attempted to point out new links among different areas of the theory of finite fields It contains many very important results which previously could be found only in widely scattered and hardly available conference proceedings and journals In particular we extensively review results which originally appeared only in Russian and are not well known to mathematicians outside the former USSR

*A Course of Pure Mathematics* Godfrey Harold Hardy, 1928

**Rudiments of Mathematics Part 1 ,**

**Construction of Algebraic Curves with Many Rational Points Over Finite Fields** Virgile Ducet, 2013 The study of the number of rational points of a curve defined over a finite field naturally falls into two cases when the genus is small typically  $g \leq 1$

**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  $\pi(x) \sim \frac{x}{\ln x}$  and  $\pi(x) \sim \frac{x}{\ln x} - \frac{x}{\ln \ln x}$  In this  $\pi(x)$  denotes the number of primes  $p \leq x$  for any  $x > 0$

**The Princeton Companion to Mathematics** Timothy Gowers, June Barrow-Green, Imre Leader, 2010-07-18 The ultimate mathematics reference book This is a one of a kind reference for anyone with a serious interest in mathematics Edited by Timothy Gowers a recipient of the Fields Medal it presents nearly two hundred entries

written especially for this book by some of the world's leading mathematicians that introduce basic mathematical tools and vocabulary trace the development of modern mathematics explain essential terms and concepts examine core ideas in major areas of mathematics describe the achievements of scores of famous mathematicians explore the impact of mathematics on other disciplines such as biology finance and music and much much more Unparalleled in its depth of coverage The Princeton Companion to Mathematics surveys the most active and exciting branches of pure mathematics Accessible in style this is an indispensable resource for undergraduate and graduate students in mathematics as well as for researchers and scholars seeking to understand areas outside their specialties Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents major ideas and branches of pure mathematics in a clear accessible style Defines and explains important mathematical concepts methods theorems and open problems Introduces the language of mathematics and the goals of mathematical research Covers number theory algebra analysis geometry logic probability and more Traces the history and development of modern mathematics Profiles more than ninety five mathematicians who influenced those working today Explores the influence of mathematics on other disciplines Includes bibliographies cross references and a comprehensive index Contributors include Graham Allan Noga Alon George Andrews Tom Archibald Sir Michael Atiyah David Aubin Joan Bagaria Keith Ball June Barrow Green Alan Beardon David D Ben Zvi Vitaly Bergelson Nicholas Bingham B la Bollob s Henk Bos Bodil Branner Martin R Bridson John P Burgess Kevin Buzzard Peter J Cameron Jean Luc Chabert Eugenia Cheng Clifford C Cocks Alain Connes Leo Corry Wolfgang Coy Tony Crilly Serafina Cuomo Mihalis Dafermos Partha Dasgupta Ingrid Daubechies Joseph W Dauben John W Dawson Jr Francois de Gandt Persi Diaconis Jordan S Ellenberg Lawrence C Evans Florence Fasanelli Anita Burdman Feferman Solomon Feferman Charles Fefferman Della Fenster Jos Ferreira David Fisher Terry Gannon A Gardiner Charles C Gillispie Oded Goldreich Catherine Goldstein Fernando Q Gouvêa Timothy Gowers Andrew Granville Ivor Grattan Guinness Jeremy Gray Ben Green Ian Grojnowski Niccolò Guicciardini Michael Harris Ulf Hashagen Nigel Higson Andrew Hodges F E A Johnson Mark Joshi Kiran S Kedlaya Frank Kelly Sergiu Klainerman Jon Kleinberg Israel Kleiner Jacek Klinowski Eberhard Knobloch János Kollar T W Körner Michael Krivelevich Peter D Lax Imre Leader Jean François Le Gall W B R Lickorish Martin W Liebeck Jesper Lützen Des MacHale Alan L Mackay Shah Majid Lech Maligranda David Marker Jean Mawhin Barry Mazur Dusa McDuff Colin McLarty Bojan Mohar Peter M Neumann Catherine Nolan James Norris Brian Osserman Richard S Palais Marco Panza Karen Hunger Parshall Gabriel P Paternain Jeanne Peiffer Carl Pomerance Helmut Pulte Bruce Reed Michael C Reed Adrian Rice Eleanor Robson Igor Rodnianski John Roe Mark Ronan Edward Sandifer Tilman Sauer Norbert Schappacher Andrzej Schinzel Erhard Scholz Reinhard Siegmund-Schultze Gordon Slade David J Spiegelhalter Jacqueline Stedall Arild Stubhaug Madhu Sudan Terence Tao Jamie Tappenden C H Taubes Rüdiger Thiele Burt Totaro Lloyd N Trefethen Dirk van Dalen Richard Weber Dominic Welsh Avi Wigderson Herbert Wilf David Wilkins B Yandell Eric Zaslow and Doron Zeilberger

**On Curves with**

**Many Rational Points Over Finite Fields** Arnaldo Garcia,2001      **Foundations of Algebra for High School Mathematics Teachers** Bruce Elwyn Meserve,1955      **Algebraic Curves Over F2 with Many Rational Points** René Schoof,1990      [Transactions of the American Mathematical Society](#) ,1918      [Acta Arithmetica](#) ,2011      [Rational Points and Canonical Heights on Varieties with Many Elliptic Fibrations](#) Lan Wang,1994      **Congressus Numerantium** ,1970

## Reviewing **Many Rational Points**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Many Rational Points**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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