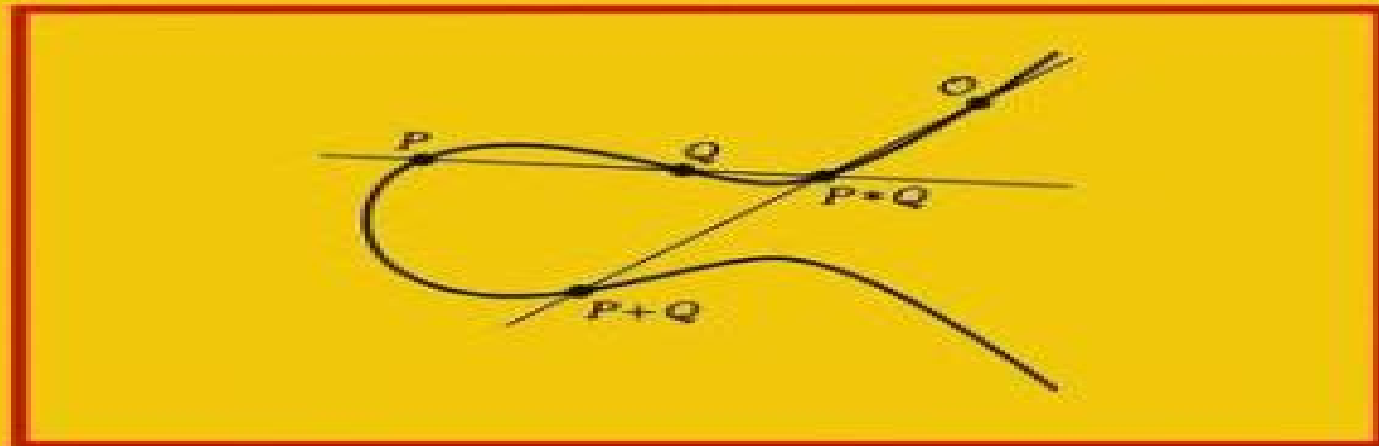


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Rational Points on Modular Elliptic Curves Henri Darmon, 2004 The book surveys some recent developments in the arithmetic of modular elliptic curves It places a special emphasis on the construction of rational points on elliptic curves the Birch and Swinnerton Dyer conjecture and the crucial role played by modularity in shedding light on these two closely related issues The main theme of the book is the theory of complex multiplication Heegner points and some conjectural variants The first three chapters introduce the background and prerequisites elliptic curves modular forms and the Shimura Taniyama Weil conjecture complex multiplication and the Heegner point construction The next three chapters introduce variants of modular parametrizations in which modular curves are replaced by Shimura curves attached to certain indefinite quaternion algebras The main new contributions are found in Chapters 7-9 which survey the author's attempts to extend the theory of Heegner points and complex multiplication to situations where the base field is not a CM field Chapter 10 explains the proof of Kolyvagin's theorem which relates Heegner points to the arithmetic of elliptic curves and leads to the best evidence so far for the Birch and Swinnerton Dyer conjecture

Rational Points on Elliptic Curves Joseph H. Silverman, John T. Tate, 1994-11-18 The theory of elliptic curves involves a blend of algebra geometry analysis and number theory This book stresses this interplay as it develops the basic theory providing an opportunity for readers to appreciate the unity of modern mathematics The book's accessibility the informal writing style and a wealth of exercises make it an ideal introduction for those interested in learning about Diophantine

equations and arithmetic geometry Rational Points on Elliptic Curves David Grant,1981 **Rational Points on Elliptic Curves** Kendra Hershey,1993 **The Rational Points on Elliptic Curves** Julian Rojter,1974 Elliptic Curves Dale Husemöller,2004 First Edition sold over 2500 copies in the Americas New Edition contains three new chapters and two new appendices *Rational Points on Elliptic Curves Over Function Fields* Thomas Russell Bolton,2008 Investigating the Structure of Rational Points on Elliptic Curves Eren Scott,California State Polytechnic University, Pomona. Department of Mathematics and Statistics,2013 *Rational Points on Elliptic Curves (microfilm)*. P. M. Scarowsky,1969 **Rational Points on Elliptic Curves Over Finite Fields** □□□,1999 *Distribution of the Number of Rational Points on Elliptic Curves Over Finite Fields* Vita Pasic,2009 **Rational Points on Some Families of Elliptic Curves** ,2004 Torsion Subgroups of Rational Points on Elliptic Curves Katherine F. Stevenson,1989 *Elliptic Curves* R. V. Gurjar,2006 These notes constitute a lucid introduction to Elliptic Curves one of the central and vigorous areas of current mathematical research The subject has been studied from diverse viewpoints analytic algebraic and arithmetical These notes offer the reader glimpses of all three aspects and present some of the basic important theorems in all of them The first part introduces a little of the theory of Riemann surfaces and goes on to the study of tori and their projective embeddings as cubics This part ends with a discussion of the identification of the moduli space of complex tori with the quotient of the upper half plane by the modular groups The second part handles the algebraic geometry of elliptic curves It begins with a rapid introduction to some basic algebraic geometry and then focuses on elliptic curves The Riemann-Roch theorem and the Riemann hypothesis for elliptic curves are proved and the structure of the endomorphism ring of an elliptic curve is described The third and last part is on the arithmetic of elliptic curves over $\mathbb{Q}$ The Mordell-Weil theorem Mazur's theorem on torsion in rational points of an elliptic curve over $\mathbb{Q}$ and theorems of Thue and Siegel are among the results which are presented There is a brief discussion of theta functions Eisenstein series and cusp forms with an application to representation of natural numbers as sums of squares The notes end with the formulation of the Birch and Swinnerton-Dyer conjectures There is an additional brief chapter Appendix C written in July 2004 by Kirti Joshi describing some developments since the original notes were written up in the present form in 1992 **The Arithmetic of Elliptic Curves** Joseph H. Silverman,2009-04-20 The theory of elliptic curves is distinguished by its long history and by the diversity of the methods that have been used in its study This book treats the arithmetic approach in its modern formulation through the use of basic algebraic number theory and algebraic geometry Following a brief discussion of the necessary algebro-geometric results the book proceeds with an exposition of the geometry and the formal group of elliptic curves elliptic curves over finite fields the complex numbers local fields and global fields Final chapters deal with integral and rational points including Siegel's theorem and explicit computations for the curve $Y^2 = X^3 + DX$ while three appendices conclude the whole Elliptic Curves in Characteristics 2 and 3 Group Cohomology and an overview of more advanced topics Modern Cryptography and Elliptic Curves Thomas R. Shemanske,2017-07-31 This book offers

the beginning undergraduate student some of the vista of modern mathematics by developing and presenting the tools needed to gain an understanding of the arithmetic of elliptic curves over finite fields and their applications to modern cryptography This gradual introduction also makes a significant effort to teach students how to produce or discover a proof by presenting mathematics as an exploration and at the same time it provides the necessary mathematical underpinnings to investigate the practical and implementation side of elliptic curve cryptography ECC Elements of abstract algebra number theory and affine and projective geometry are introduced and developed and their interplay is exploited Algebra and geometry combine to characterize congruent numbers via rational points on the unit circle and group law for the set of points on an elliptic curve arises from geometric intuition provided by Bezout's theorem as well as the construction of projective space The structure of the unit group of the integers modulo a prime explains RSA encryption Pollard's method of factorization Diffie Hellman key exchange and ElGamal encryption while the group of points of an elliptic curve over a finite field motivates Lenstra's elliptic curve factorization method and ECC The only real prerequisite for this book is a course on one variable calculus other necessary mathematical topics are introduced on the fly Numerous exercises further guide the exploration

Elliptic Curves James S Milne, 2023-02 This book uses the beautiful theory of elliptic curves to introduce the reader to some of the deeper aspects of number theory It assumes only a knowledge of the basic algebra complex analysis and topology usually taught in first year graduate courses An elliptic curve is a plane curve defined by a cubic polynomial Although the problem of finding the rational points on an elliptic curve has fascinated mathematicians since ancient times it was not until 1922 that Mordell proved that the points form a finitely generated group There is still no proven algorithm for finding the rank of the group but in one of the earliest important applications of computers to mathematics Birch and Swinnerton Dyer discovered a relation between the rank and the numbers of points on the curve computed modulo a prime Chapter IV of the book proves Mordell's theorem and explains the conjecture of Birch and Swinnerton Dyer Every elliptic curve over the rational numbers has an L series attached to it Hasse conjectured that this L series satisfies a functional equation and in 1955 Taniyama suggested that Hasse's conjecture could be proved by showing that the L series arises from a modular form This was shown to be correct by Wiles and others in the 1990s and as a consequence one obtains a proof of Fermat's Last Theorem Chapter V of the book is devoted to explaining this work The first three chapters develop the basic theory of elliptic curves For this edition the text has been completely revised and updated

Elliptic Curves S. Lang, 1978-11-01 It is possible to write endlessly on elliptic curves This is not a threat We deal here with diophantine problems and we lay the foundations especially for the theory of integral points We review briefly the analytic theory of the Weierstrass function and then deal with the arithmetic aspects of the addition formula over complete fields and over number fields giving rise to the theory of the height and its quadraticity We apply this to integral points covering the inequalities of diophantine approximation both on the multiplicative group and on the elliptic curve directly Thus the book splits naturally in

two parts The first part deals with the ordinary arithmetic of the elliptic curve The transcendental parametrization the p -adic parametrization points of finite order and the group of rational points and the reduction of certain diophantine problems by the theory of heights to diophantine inequalities involving logarithms The second part deals with the proofs of selected inequalities at least strong enough to obtain the finiteness of integral points

Elliptic Curves Dale Husemoller, 2013-06-29

The book divides naturally into several parts according to the level of the material the background required of the reader and the style of presentation with respect to details of proofs For example the first part to Chapter 6 is undergraduate in level the second part requires a background in Galois theory and the third some complex analysis while the last parts from Chapter 12 on are mostly at graduate level A general outline of much of the material can be found in Tate's colloquium lectures reproduced as an article in Inventiones 1974 The first part grew out of Tate's 1961 Haverford Philips Lectures as an attempt to write something for publication closely related to the original Tate notes which were more or less taken from the tape recording of the lectures themselves This includes parts of the Introduction and the first six chapters The aim of this part is to prove by elementary methods the Mordell theorem on the finite generation of the rational points on elliptic curves defined over the rational numbers In 1970 Tate returned to Haverford to give again in revised form the original lectures of 1961 and to extend the material so that it would be suitable for publication This led to a broader plan for the book

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