

$$y + \sqrt{-2} = a^3$$

$$y + \sqrt{-2} = (a + b\sqrt{-2})^3$$

# On Mordells Equation

**Richard Guy**



## On Mordells Equation:

**On Mordell's Equation** Y2-k Hymie London, Raphael Finkelstein, 1973      On Mordell's Equation Yp2s-k Hymie London, Raphael Finkelstein, 1973      **On Mordell's Equation** Stanley Rabinowitz, 1971      **Solving \$\$\$-Unit, Mordell, Thue, Thue-Mahler and Generalized Ramanujan-Nagell Equations via the Shimura-Taniyama Conjecture** Rafael von Känel, Benjamin Matschke, 2023-06-22 [View the abstract](#)      *Number Theory* Daniel Duverney, 2010 This textbook presents an elementary introduction to number theory and its different aspects approximation of real numbers irrationality and transcendence problems continued fractions diophantine equations quadratic forms arithmetical functions and algebraic number theory Clear concise and self contained the topics are covered in 12 chapters with more than 200 solved exercises The textbook may be used by undergraduates and graduate students as well as high school mathematics teachers More generally it will be suitable for all those who are interested in number theory the fascinating branch of mathematics      **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      Number Theory Prof. Jyothi M. J., Dr. Kemparaju R., 2024-09-13 Number Theory is a comprehensive exploration of the foundational concepts theorems and applications in number theory Prime numbers congruences and Diophantine equations offering both classical insights and modern perspectives It caters to a broad audience from students to advanced mathematicians with a focus on problem solving proofs and historical context Rich with examples exercises and applications Number Theory illuminates the subject's intrinsic beauty and its significance in fields like cryptography computer science and mathematical research      **Number Theory** Kalman Györy, Attila Pethö, Vera T. Sos, 2011-06-24 No detailed description available for Number Theory      **Unit Equations in Diophantine Number Theory** Jan-Hendrik Evertse, Kálmán Györy, 2015-12-30 A comprehensive graduate level treatment of unit equations and their various applications      *Elliptic Curves* Susanne Schmitt, Horst G. Zimmer, 2003 The content is kept as elementary as possible and therefore the book differs significantly from the numerous textbooks on elliptic curves nowadays available The book is addressed to graduate students and researchers in both mathematics and computer science **BOOK JACKET**      Algebraic Number Theory and Diophantine Analysis F. Halter-Koch, Robert F. Tichy, 2011-06-24 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications      **The Algorithmic Resolution of Diophantine Equations** Nigel P. Smart, 1998-11-12 A coherent account of the computational methods used to solve diophantine equations      *Polynomial Diophantine Equations* Bogdan

Grechuk,2024-09-01 This book proposes a novel approach to the study of Diophantine equations define an appropriate version of the equation s size order all polynomial Diophantine equations by size and then solve the equations in order Natural questions about the solution set of Diophantine equations are studied in this book using this approach Is the set empty Is it finite or infinite Can all integer solutions be parametrized By ordering equations by size the book attempts to answer these questions in a systematic manner When the size grows the difficulty of finding solutions increases and the methods required to determine solutions become more advanced Along the way the reader will learn dozens of methods for solving Diophantine equations each of which is illustrated by worked examples and exercises The book ends with solutions to exercises and a large collection of open problems often simple to write down yet still unsolved The original approach pursued in this book makes it widely accessible Many equations require only high school mathematics and creativity to be solved so a large part of the book is accessible to high school students especially those interested in mathematical competitions such as olympiads The main intended audience is undergraduate students for whom the book will serve as an unusually rich introduction to the topic of Diophantine equations Many methods from the book will be useful for graduate students while Ph D students and researchers may use it as a source of fascinating open questions of varying levels of difficulty **Unsolved**

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**Introduction to Diophantine Equations** Titu Andreescu,Dorin Andrica,Ion Cucurezeanu,2010-09-02 This problem solving book is an introduction to the study of Diophantine equations a class of equations in which only integer solutions are allowed The presentation features some classical Diophantine equations including linear Pythagorean and some higher degree equations as well as exponential Diophantine equations Many of the selected exercises and problems are original or are presented with original solutions An Introduction to Diophantine Equations A Problem Based Approach is intended for undergraduates advanced high school students and teachers mathematical contest participants including Olympiad and Putnam competitors as well as readers interested in essential mathematics The work uniquely presents unconventional and non routine examples ideas and techniques **Computational Problems, Methods, and Results in Algebraic Number**

**Theory** H. G. Zimmer,2006-11-15 **Number Theory** Don Redmond,2020-09-29 This text provides a detailed introduction

to number theory demonstrating how other areas of mathematics enter into the study of the properties of natural numbers It contains problem sets within each section and at the end of each chapter to reinforce essential concepts and includes up to date information on divisibility problems polynomial congruence the sums of squares and trigonometric sums Five or more copies may be ordered by college or university bookstores at a special price available on application     Algorithmic Number Theory Wieb Bosma,2006-12-30 This book constitutes the refereed proceedings of the 4th International Algorithmic Number Theory Symposium ANTS IV held in Leiden The Netherlands in July 2000 The book presents 36 contributed papers which have gone through a thorough round of reviewing selection and revision Also included are 4 invited survey papers Among the topics addressed are gcd algorithms primality factoring sieve methods cryptography linear algebra lattices algebraic number fields class groups and fields elliptic curves polynomials function fields and power sums     The Queen of Mathematics W.S. Anglin,2012-12-06 Like other introductions to number theory this one includes the usual curtsy to divisibility theory the bow to congruence and the little chat with quadratic reciprocity It also includes proofs of results such as Lagrange s Four Square Theorem the theorem behind Lucas s test for perfect numbers the theorem that a regular  $n$  gon is constructible just in case  $\phi(n)$  is a power of 2 the fact that the circle cannot be squared Dirichlet s theorem on primes in arithmetic progressions the Prime Number Theorem and Rademacher s partition theorem We have made the proofs of these theorems as elementary as possible Unique to The Queen of Mathematics are its presentations of the topic of palindromic simple continued fractions an elementary solution of Lucas s square pyramid problem Baker s solution for simultaneous Fermat equations an elementary proof of Fermat s polygonal number conjecture and the Lambek Moser Wild theorem     **Number Theory** Richard Mollin,2016-12-19 No detailed description available for Number Theory

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