



# Pell's Equation

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## 1 Introduction

**Definition 1.** Pell's equation is a diophantine equation of the form  $x^2 - dy^2 = 1$ ,  $x, y \in \mathbb{Z}$ , where  $d$  is a given natural number which is not a square.

An equation of the form  $x^2 - dy^2 = a$  for an integer  $a$  is usually referred to as a Pell-type equation.

An arbitrary quadratic diophantine equation with two unknowns can be reduced to a Pell-type equation. How can such equations be solved? Recall that the general solution of a linear diophantine equation is a linear function of some parameters. This does not happen with general quadratic diophantine equations. However, as we will see later, in the case of such equations with two unknowns there still is a relatively simple formula describing the general solution.

Why does the definition of Pell's equations assume  $d$  is not a square? Well, for  $d = c^2$ ,  $c \in \mathbb{Z}$ , the equation  $x^2 - dy^2 = a$  can be factored as  $(x - cy)(x + cy) = a$  and therefore solved without using any further theory. So, unless noted otherwise,  $d$  will always be assumed not to be a square.

The equation  $x^2 - dy^2 = a$  can still be factored as

$$(x + y\sqrt{d})(x - y\sqrt{d}) = a.$$

In order to be able to make use of this factorization, we must deal with numbers of the form  $x + y\sqrt{d}$ , where  $x, y$  are integers. This set is denoted by  $\mathbb{Z}[\sqrt{d}]$ . An important property of this set is that the sum and product of two of its elements remain in the set (i.e. this set is really a ring).

**Definition 2.** The conjugate of number  $z = x + y\sqrt{d}$  is defined as  $\bar{z} = x - y\sqrt{d}$ , and its norm as  $N(z) = z\bar{z} = x^2 - dy^2 \in \mathbb{Z}$ .

**Theorem 1.** The norm and the conjugate are multiplicative in  $\mathbb{Z}[\sqrt{d}]$ :  $N(z_1 z_2) = N(z_1)N(z_2)$  and  $\overline{z_1 z_2} = \bar{z}_1 \cdot \bar{z}_2$ .

# Imo Problems Pell Equation

**Titu Andreescu, Razvan Gelca**



## IMO Problems Pell Equation:

**Functional Equations and How to Solve Them** Christopher G. Small, 2007-04-03 Over the years a number of books have been written on the theory of functional equations However very little has been published which helps readers to solve functional equations in mathematics competitions and mathematical problem solving This book fills that gap The student who encounters a functional equation on a mathematics contest will need to investigate solutions to the equation by finding all solutions or by showing that all solutions have a particular property The emphasis here will be on the development of those tools which are most useful in assigning a family of solutions to each functional equation in explicit form At the end of each chapter readers will find a list of problems associated with the material in that chapter The problems vary greatly with the easiest problems being accessible to any high school student who has read the chapter carefully The most difficult problems will be a reasonable challenge to advanced students studying for the International Mathematical Olympiad at the high school level or the William Lowell Putnam Competition for university undergraduates The book ends with an appendix containing topics that provide a springboard for further investigation of the concepts of limits infinite series and continuity The IMO Compendium Dušan Djukić, Vladimir Janković, Ivan Matić, Nikola Petrović, 2011-05-05 The IMO Compendium is the ultimate collection of challenging high school level mathematics problems and is an invaluable resource not only for high school students preparing for mathematics competitions but for anyone who loves and appreciates mathematics The International Mathematical Olympiad IMO nearing its 50th anniversary has become the most popular and prestigious competition for high school students interested in mathematics Only six students from each participating country are given the honor of participating in this competition every year The IMO represents not only a great opportunity to tackle interesting and challenging mathematics problems it also offers a way for high school students to measure up with students from the rest of the world Until the first edition of this book appearing in 2006 it has been almost impossible to obtain a complete collection of the problems proposed at the IMO in book form The IMO Compendium is the result of a collaboration between four former IMO participants from Yugoslavia now Serbia and Montenegro to rescue these problems from old and scattered manuscripts and produce the ultimate source of IMO practice problems This book attempts to gather all the problems and solutions appearing on the IMO through 2009 This second edition contains 143 new problems picking up where the 1959 2004 edition has left off 40 Puzzles and Problems in Probability and Mathematical Statistics Wolf Schwarz, 2007-11-25 As a student I discovered in our library a thin booklet by Frederick Mosteller entitled 50 Challenging Problems in Probability It referred to as a supplementary regular textbook by William Feller An Introduction to Probability Theory and its Applications So I took this one along too and started on the rest of Mosteller's problems on the train riding home From that evening I caught on to probability These two books were not primarily about abstract formalisms but rather about basic modeling ideas and about ways often extremely elegant ones to apply those notions to a surprising variety of empirical phenomena Essentially these books taught the reader

the skill to think probabilistically and to apply simple probability models to real world problems The present book is in this tradition it is based on the view that those cognitive skills are best acquired by solving challenging nonstandard probability problems My own experience both in learning and in teaching is that challenging problems often help to develop and to sharpen our probabilistic intuition much better than plain style deductions from abstract concepts

**Mathematical Olympiad Challenges** Titu Andreescu, Răzvan Gelca, 2000-04-26 A collection of problems put together by coaches of the U S International Mathematical Olympiad Team [Index to Mathematical Problems, 1975-1979](#) Stanley Rabinowitz, Mark Bowron, 1999 [An 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

**An Excursion through Elementary Mathematics, Volume III** Antonio Caminha Muniz Neto, 2018-04-17 This book provides a comprehensive in depth overview of elementary mathematics as explored in Mathematical Olympiads around the world It expands on topics usually encountered in high school and could even be used as preparation for a first semester undergraduate course This third and last volume covers Counting Generating Functions Graph Theory Number Theory Complex Numbers Polynomials and much more As part of a collection the book differs from other publications in this field by not being a mere selection of questions or a set of tips and tricks that applies to specific problems It starts from the most basic theoretical principles without being either too general or too axiomatic Examples and problems are discussed only if they are helpful as applications of the theory Propositions are proved in detail and subsequently applied to Olympic problems or to other problems at the Olympic level The book also explores some of the hardest problems presented at National and International Mathematics Olympiads as well as many essential theorems related to the content An extensive Appendix offering hints on or full solutions for all difficult problems rounds out the book

[Exercises in Modules and Rings](#) T.Y. Lam, 2009-12-08 The idea of writing this book came roughly at the time of publication of my graduate text *Lectures on Modules and Rings* Springer GTM Vol 189 1999 Since that time teaching obligations and intermittent intervention of other projects caused prolonged delays in the work on this volume Only a lucky break in my schedule in 2006 enabled me to put the finishing touches on the completion of this long overdue book This book is intended to serve a dual purpose First it is designed as a problem book for *Lectures* As such it contains the statements and full solutions of the many exercises that appeared in *Lectures* Second this book is also offered as a reference

and repository for general information in the theory of modules and rings that may be hard to find in the standard textbooks in the field As a companion volume to Lectures this work covers the same mathematical material as its parent work namely the part of ring theory that makes substantial use of the notion of modules The two books thus share the same table of contents with the first half treating projective injective and flat modules homological and uniform dimensions and the second half dealing with noncommutative localizations and Goldie's theorems maximal rings of quotients Frobenius and quasi Frobenius rings concluding with Morita's theory of category equivalences and dualities

**Quadratic Diophantine Equations** Titu Andreescu, Dorin Andrica, 2015-06-29 This text treats the classical theory of quadratic diophantine equations and guides the reader through the last two decades of computational techniques and progress in the area The presentation features two basic methods to investigate and motivate the study of quadratic diophantine equations the theories of continued fractions and quadratic fields It also discusses Pell's equation and its generalizations and presents some important quadratic diophantine equations and applications The inclusion of examples makes this book useful for both research and classroom settings

**Square Matrices of Order 2** Vasile Pop, Ovidiu Furdui, 2017-04-04 This unique and innovative book presents an exciting and complete detail of all the important topics related to the theory of square matrices of order 2 The readers exploring every detailed aspect of matrix theory are gently led toward understanding advanced topics They will follow every notion of matrix theory with ease accumulating a thorough understanding of algebraic and geometric aspects of matrices of order 2 The prime jewel of this book is its offering of an unusual collection of problems theoretically motivated most of which are new original and seeing the light of publication for the first time in the literature Nearly all of the exercises are presented with detailed solutions and vary in difficulty from easy to more advanced Many problems are particularly challenging These and not only these invite the reader to unleash their creativity and research capabilities and to discover their own methods of attacking a problem Matrices have a vast practical importance to mathematics science and engineering therefore the readership of this book is intended to be broad high school students wishing to learn the fundamentals of matrix theory first year students who like to participate in mathematical competitions graduate students who want to learn more about an application of a certain technique doctoral students who are preparing for their prelim exams in linear algebra and linear algebra instructors Chapters 1-3 complement a standard linear algebra course Pure and applied mathematicians who use matrix theory for their applications will find this book useful as a refresher In fact anyone who is willing to explore the methodologies discussed in this book and work through a collection of problems involving matrices of order 2 will be enriched

**Introduction to Functional Equations** Costas Efthimiou, 2011-10-13 Functions and their properties have been part of the rigorous precollege curriculum for decades And functional equations have been a favorite topic of the leading national and international mathematical competitions Yet the subject has not received equal attention by authors at an introductory level The majority of the books on the topic remain unreachable to the curious and intelligent precollege

student The present book is an attempt to eliminate this disparity The book opens with a review chapter on functions which collects the relevant foundational information on functions plus some material potentially new to the reader The next chapter presents a working definition of functional equations and explains the difficulties in trying to systematize the theory With each new chapter the author presents methods for the solution of a particular group of equations Each chapter is complemented with many solved examples the majority of which are taken from mathematical competitions and professional journals The book ends with a chapter of unsolved problems and some other auxiliary material The book is an invaluable resource for precollege and college students who want to deepen their knowledge of functions and their properties for teachers and instructors who wish to enrich their curricula and for any lover of mathematical problem solving techniques In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people their parents and teachers and the mathematics profession **Mathematical Education**, 1989 **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 **Pell's Equation** Edward Barbeau, 2003-01-14 Pell s equation is part of a central area of algebraic number theory that treats quadratic forms and the structure of the rings of integers in algebraic number fields It is an ideal topic to lead college students as well as some talented and motivated high school students to a better appreciation of the power of mathematical technique Even at the specific level of quadratic diophantine equations there are unsolved problems and the higher degree analogues of Pell s equation particularly beyond the third do not appear to have been well studied In this focused exercise book the topic is motivated and developed through sections of exercises which will allow the readers to

recreate known theory and provide a focus for their algebraic practice There are several explorations that encourage the reader to embark on their own research A high school background in mathematics is all that is needed to get into this book and teachers and others interested in mathematics who do not have or have forgotten a background in advanced mathematics may find that it is a suitable vehicle for keeping up an independent interest in the subject *Engaging Young Students In Mathematics Through Competitions - World Perspectives And Practices: Volume Iii - Keeping Competition Mathematics Engaging In Pandemic Times* Robert Geretschlager,2024-01-16 Engaging Young Students in Mathematics through Competitions presents a wide range of topics relating to mathematics competitions and their meaning in the world of mathematical research teaching and entertainment Following the earlier two volumes contributors explore a wide variety of fascinating problems of the type often presented at mathematics competitions In this new third volume many chapters are directly related to the challenges involved in organizing competitions under Covid 19 including many positive aspects resulting from the transition to online formats There are also sections devoted to background information on connections between the mathematics of competitions and their organization as well as the competitions interplay with research teaching and more The various chapters are written by an international group of authors involved in problem development many of whom were participants of the 9th Congress of the World Federation of National Mathematics Competitions in Bulgaria in 2022 Together they provide a deep sense of the issues involved in creating such problems for competition mathematics and recreational mathematics Solving the Pell Equation Michael Jacobson,Hugh Williams,2008-12-02 Pell s Equation is a very simple Diophantine equation that has been known to mathematicians for over 2000 years Even today research involving this equation continues to be very active as can be seen by the publication of at least 150 articles related to this equation over the past decade However very few modern books have been published on Pell s Equation and this will be the first to give a historical development of the equation as well as to develop the necessary tools for solving the equation The authors provide a friendly introduction for advanced undergraduates to the delights of algebraic number theory via Pell s Equation The only prerequisites are a basic knowledge of elementary number theory and abstract algebra There are also numerous references and notes for those who wish to follow up on various topics **The Art and Craft of Problem Solving** Paul Zeitz,2016-11-14 Appealing to everyone from college level majors to independent learners The Art and Craft of Problem Solving 3rd Edition introduces a problem solving approach to mathematics as opposed to the traditional exercises approach The goal of The Art and Craft of Problem Solving is to develop strong problem solving skills which it achieves by encouraging students to do math rather than just study it Paul Zeitz draws upon his experience as a coach for the international mathematics Olympiad to give students an enhanced sense of mathematics and the ability to investigate and solve problems Index to Mathematical Problems, 1980-1984 Stanley Rabinowitz,1992 A compendium of over 5 000 problems with subject keyword author and citation indexes *Mathematical Reviews* ,2007 **Mathematical Olympiad Challenges** Titu

Andreescu, Razvan Gelca, 2001-01-10 Mathematical Olympiad Challenges is a rich collection of problems put together by two experienced and well known professors and coaches of the U S International Mathematical Olympiad Team Hundreds of beautiful challenging and instructive problems from algebra geometry trigonometry combinatorics and number theory were selected from numerous mathematical competitions and journals An important feature of the work is the comprehensive background material provided with each grouping of problems The problems are clustered by topic into self contained sections with solutions provided separately All sections start with an essay discussing basic facts and one or two representative examples A list of carefully chosen problems follows and the reader is invited to take them on Additionally historical insights and asides are presented to stimulate further inquiry The emphasis throughout is on encouraging readers to move away from routine exercises and memorized algorithms toward creative solutions to open ended problems Aimed at motivated high school and beginning college students and instructors this work can be used as a text for advanced problem solving courses for self study or as a resource for teachers and students training for mathematical competitions and for teacher professional development seminars and workshops



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