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Probably the most famous Diophantine equation is the one representing Fermat's last theorem, finally proved hundreds of years after it was proposed by Andrew Wiles: If  $n > 2$ , there are no non-trivial solutions in integers to the equation:  $x^n + y^n = z^n$ . There are many, many forms of Diophantine equations, but equations of the sort that

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An introduction to Diophantine equations: A problem-based approach Titu Andreescu , Dorin Andrica , Ion Cucurezeanu (auth.) This problem-solving book is an introduction to the study of Diophantine equations, a class of equations in which only integer solutions are allowed.

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In mathematics, a Diophantine equation is a polynomial equation, usually in two or more unknowns, such that only the integer solutions are sought or studied (an integer solution is such that all the unknowns take integer values). A linear Diophantine equation equates the sum of two or more monomials, each of degree 1 in one of the variables, to a constant.

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Introduction A diophantine equation is an expression of form:  $f(x_1; x_2; \dots; x_n) = 0$  where  $f$  is an  $n$  variable function with  $n \geq 2$ . If  $f$  is a polynomial with integral coefficients, then this equation is called algebraic diophantine equation. If we call  $F$  to be the algebraic system (like  $Z, Z^+, Q, R, C$  etc.) in which we will solve our equation, then ...

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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 ...

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An Introduction to Diophantine Equations: A Problem-Based Approach Titu Andreescu Dorin Andrica Ion Cucurezeanu Diophantus' Arithmetica is a collection of problems each followed by a solution.

Introduction to Diophantine Equations

INTRODUCTION TO DIOPHANTINE EQUATIONS In the early 20th century, Thue made an important breakthrough in the study of diophantine equations. His proof is one of the first examples of the polynomial method. His proof influenced a lot of later work in number theory, including dio-

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Preface.-Part 1: Diophantine Equations.-Elementary Methods for Solving Diophantine Equations.-The Decomposition Method.-Solving Diophantine Equations Using Inequalities.-The Parametric Method.-The Modular Arithmetic Method.-The Method of Mathematical Induction.-Fermat's Method of Infinite Descent (FMID).-Miscellaneous Diophantine Equations.-Some Classical Diophantine Equation.-Linear ...

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iii In 2014 the partial result was extended to all even numbers smaller than  $4 \cdot 10^{18}$ , [Oliveira e Silva, 2014]. For any positive integer  $n$ , let  $f(n)$  denote the number of solutions

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In this article, I discuss what Diophantine Equations are and the difficulty of solving them. Then, I detail how to solve two-variable linear diophantine equations. Towards the end, I solve a multi-variable linear Diophantine equation concerning pennies, dimes, and quarters.

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methods in solving Diophantine equations, such as decomposition, modular arithmetic, mathematical induction, and Fermat's infinite descent. Chapter 2 presents classical Diophantine equations, including linear, Pythagorean, higher-degree, and exponential equations, such as Catalan's. Chapter 3 focuses on Pell-type equations, serving

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