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## ~~Solving Diophantine Equations~~

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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iii In 2014 the partial result was extended to all even numbers smaller than 4 1018, [Oliveira e Silva, 2014]. For any positive integer  $n$ , let  $f(n)$  denote the number of solutions

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Preface.-Part 1: Diophantine Equations.-Elementary Methods for

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Inequalities.-The Parametric  
Method.-The Modular Arithmetic  
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Induction.-Fermat's Method of Infinite  
Descent (FMID).-Miscellaneous  
Diophantine Equations.-Some Classical  
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In this article, I discuss what Diophantine Equations are and the difficulting 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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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  $n \geq 2$ .  
2.1 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<sup>2</sup> (like  $\mathbb{Z}$ ,  $\mathbb{Z}^+$ ,  $\mathbb{Q}$ ,  $\mathbb{R}$ ,  $\mathbb{C}$  etc.) in which we will solve our equation, then ...

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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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In mathematics, a Diophantine equation is a polynomial equation, usually in two or more unknowns, such that only the

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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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Diophantus' Arithmetica is a collection of problems each followed by a solution.

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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,



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many forms of Diophantine equations, but equations of the sort that

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