

## PRIMES OF THE FORM X2 NY2 DAVID A COX

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Written in a unique and accessible style for readers of varied mathematical backgrounds, the Second Edition of Primes of the Form  $p = x^2 + ny^2$  details the history behind how Pierre de Fermat's work ultimately gave birth to quadratic reciprocity and the genus theory of quadratic forms. The book also illustrates how results of Euler and Gauss can be fully understood only in the context of class field theory, and in addition, explores a selection of the magnificent formulas of complex ...

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Primes of the Form  $x^2+ny^2$ : Fermat, Class Field Theory, and Complex Multiplication (Pure and Applied Mathematics: A Wiley Series of Texts, Monographs and Tracts Book 119) (English Edition) eBook: Cox, David A.: Amazon.de: Kindle-Shop

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[University of Toronto Department of Mathematics](#)

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Provides a general solution to the question of which primes  $p$  can be expressed in the form  $x^2 + ny^2$ . Covered first are the special cases considered by Fermat, which involve only quadratic reciprocity and the genus theory of quadratic forms. Further, the book shows how the results of Euler and Gauss can be fully understood only in the context of class field theory. Finally,

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The central theme of the book is the story of which primes  $p$  can be expressed in the form  $x^2 + ny^2$ . An incomplete answer is given using quadratic forms. A better though abstract answer comes from class field theory, and finally, a concrete answer is provided by complex multiplication. Along the way, the reader is introduced to some wonderful number theory. Numerous exercises and examples are ...

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Primes of the Form  $p = x^2 + ny^2$ , Second Edition is both a useful reference for number theory theorists and an excellent text for undergraduate and graduate-level courses in number and Galois theory. Biografía del autor. DAVID A. COX, PhD, is William J. Walker Professor of Mathematics in the Department of Mathematics at Amherst College. Dr. Cox is the author of Galois Theory, Second Edition ...

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$p$  prime :  $p = x^2 + ny^2$  for some  $x, y \in \mathbb{Z}$  :  $n = 1$  ? (1.1) The set  $n$  prime :  $n = 1$  or is easily determined using quadratic reciprocity. Theorem 1.2. (Quadratic Reciprocity) [4] Let  $p, q$  be distinct odd primes, then we have  $p \equiv 1 \pmod{q}$  or  $q \equiv 1 \pmod{p}$  ; Accompanying the law of quadratic reciprocity we have the following two supplementary results. Theorem 1.3 (Supplementary Reciprocity Laws ...

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Primes of the Form  $X^2+ny^2$  : David A. Cox : John Wiley & Sons Inc : Fermat, Class Field Theory, and Complex Multiplication : 2013-4-22 : 378 : Paperback : Pure and Applied Mathematics: A Wiley Series of Texts, Monographs, and Tracts

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PRIMES OF THE FORM  $x^2 + ny^2$  ELISA LORENZO GARCIA Most first courses in Number Theory prove the following statement concerning an odd prime number  $p$ :  $p = x^2 + ny^2$  for some  $x, y \in \mathbb{Z}$  if and only if  $p \equiv 1 \pmod{4}$ : This is only one of the many cases treated in Fermat's works on the more general problem Question 0.1. Given a positive integer  $n$ , which prime numbers  $p$  can be expressed in the form  $x^2 + ny^2$  for some ...

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While most texts concentrate on only the elementary or advanced aspects of this story, Primes of the Form  $x^2 + ny^2$  begins with Fermat and explains how his work ultimately gave birth to quadratic reciprocity and the genus theory of quadratic forms. Further, the book shows how the results of Euler and Gauss can be fully understood only in the context of class field theory. Finally, in order to ...

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