



# Friendly Introduction to Number Theory

*Silverman*

Download now

Read Online 

[Click here](#) if your download doesn't start automatically

# Friendly Introduction to Number Theory

Silverman

## Friendly Introduction to Number Theory Silverman

Contents Flowchart of Chapter Dependencies Introduction 1. What Is Number Theory? 2. Pythagorean Triples 3. Pythagorean Triples and the Unit Circle 4. Sums of Higher Powers and Fermat's Last Theorem 5. Divisibility and the Greatest Common Divisor 6. Linear Equations and the Greatest Common Divisor 7. Factorization and the Fundamental Theorem of Arithmetic 8. Congruences 9. Congruences, Powers, and Fermat's Little Theorem 10. Congruences, Powers, and Euler's Formula 11. Euler's Phi Function and the Chinese Remainder Theorem 12. Prime Numbers 13. Counting Primes 14. Mersenne Primes 15. Mersenne Primes and Perfect Numbers 16. Powers Modulo  $m$  and Successive Squaring 17. Computing  $k$ th Roots Modulo  $m$  18. Powers, Roots, and "Unbreakable" Codes 19. Primality Testing and Carmichael Numbers 20. Squares Modulo  $p$  21. Quadratic Reciprocity 22. Proof of Quadratic Reciprocity 23. Which Primes Are Sums of Two Squares? 24. Which Numbers Are Sums of Two Squares? 25. Euler's Phi Function and Sums of Divisors 26. Powers Modulo  $p$  and Primitive Roots 27. Primitive Roots and Indices 28. The Equation  $X^4 + Y^4 = Z^4$  29. Square-Triangular Numbers Revisited 30. Pell's Equation 31. Diophantine Approximation 32. Diophantine Approximation and Pell's Equation 33. Number Theory and Imaginary Numbers 34. The Gaussian Integers and Unique Factorization 35. Irrational Numbers and Transcendental Numbers 36. Binomial Coefficients and Pascal's Triangle 37. Fibonacci's Rabbits and Linear Recurrence Sequences 38. Cubic Curves and Elliptic Curves 39. Elliptic Curves with Few Rational Points 40. Points on Elliptic Curves Modulo  $p$  41. Torsion Collections Modulo  $p$  and Bad Primes 42. Defect Bounds and Modularity Patterns 43. Elliptic Curves and Fermat's Last Theorem

 [Download Friendly Introduction to Number Theory ...pdf](#)

 [Read Online Friendly Introduction to Number Theory ...pdf](#)

**Download and Read Free Online Friendly Introduction to Number Theory Silverman**

---

## Download and Read Free Online Friendly Introduction to Number Theory Silverman

---

### From reader reviews:

#### **Arlene Oliver:**

Inside other case, little men and women like to read book Friendly Introduction to Number Theory. You can choose the best book if you love reading a book. Providing we know about how is important a new book Friendly Introduction to Number Theory. You can add know-how and of course you can around the world by way of a book. Absolutely right, due to the fact from book you can recognize everything! From your country until finally foreign or abroad you may be known. About simple matter until wonderful thing you could know that. In this era, we can open a book or maybe searching by internet unit. It is called e-book. You need to use it when you feel fed up to go to the library. Let's examine.

#### **Holly Taylor:**

The experience that you get from Friendly Introduction to Number Theory may be the more deep you digging the information that hide inside the words the more you get thinking about reading it. It does not mean that this book is hard to be aware of but Friendly Introduction to Number Theory giving you joy feeling of reading. The copy writer conveys their point in a number of way that can be understood by anyone who read the idea because the author of this reserve is well-known enough. This specific book also makes your vocabulary increase well. Therefore it is easy to understand then can go along with you, both in printed or e-book style are available. We propose you for having this Friendly Introduction to Number Theory instantly.

#### **Carla McFarlin:**

Information is provisions for folks to get better life, information today can get by anyone in everywhere. The information can be a knowledge or any news even an issue. What people must be consider when those information which is inside the former life are challenging to be find than now's taking seriously which one is acceptable to believe or which one often the resource are convinced. If you have the unstable resource then you get it as your main information you will have huge disadvantage for you. All those possibilities will not happen throughout you if you take Friendly Introduction to Number Theory as your daily resource information.

#### **Christopher Williams:**

As a university student exactly feel bored to help reading. If their teacher inquired them to go to the library or to make summary for some reserve, they are complained. Just little students that has reading's internal or real their leisure activity. They just do what the educator want, like asked to the library. They go to at this time there but nothing reading significantly. Any students feel that looking at is not important, boring in addition to can't see colorful pictures on there. Yeah, it is being complicated. Book is very important in your case. As we know that on this era, many ways to get whatever we really wish for. Likewise word says, many ways to reach Chinese's country. Therefore , this Friendly Introduction to Number Theory can make you experience more interested to read.

**Download and Read Online Friendly Introduction to Number Theory Silverman #1R984HMQPUX**

## **Read Friendly Introduction to Number Theory by Silverman for online ebook**

Friendly Introduction to Number Theory by Silverman Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Friendly Introduction to Number Theory by Silverman books to read online.

### **Online Friendly Introduction to Number Theory by Silverman ebook PDF download**

#### **Friendly Introduction to Number Theory by Silverman Doc**

#### **Friendly Introduction to Number Theory by Silverman Mobipocket**

#### **Friendly Introduction to Number Theory by Silverman EPub**