

introduction to number theory pdf

theory for math majors and in many cases as an elective course. The notes contain a useful introduction to important topics that need to be addressed in a course in number theory.

An Introductory Course in Elementary Number Theory

A Friendly Introduction to Number Theory is an introductory undergraduate text designed to entice non-math majors into learning some mathematics, while at the same time teaching them how to think mathematically. The exposition is informal, with a wealth of numerical examples that are analyzed for patterns and used to make conjectures.

A Friendly Introduction to Number Theory

Introduction to number theory. This free course is available to start right now. Review the full course description and key learning outcomes and create an account and enrol if you want to track your learning.

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A Computational Introduction to Number Theory and Algebra

2 ALEXANDRU BUIUM 1. Introduction This is an introduction to number theory at the undergraduate level. For most of the course the only prerequisites are the basic facts of arithmetic learned in

A FIRST COURSE IN NUMBER THEORY

2 Course Notes, Week 6: Introduction to Number Theory 1.1 Facts About Divisibility The lemma below states some basic facts about divisibility that are not difficult to prove: Lemma 1.1. The following statements about divisibility hold. 1. If $a \mid b$, then $a \mid bc$ for all c . 2. If $a \mid b$ and $b \mid c$, then $a \mid c$. 3.

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Theorem (Euler, 1747). Every prime number p of the form $4n + 1$ is a sum of two squares, $p = a^2 + b^2$ for some $a, b \in \mathbb{N}$. For example, we have representations $5 = 2^2 + 1^2$, $13 = 3^2 + 2^2$, $17 = 4^2 + 1^2$, $29 = 5^2 + 2^2$, $37 = 6^2 + 1^2$, and $41 = 5^2 + 4^2$. The primes of the form $4n+3$ are never sum of two squares because squares give modulo 4 only residues 0 and 1.

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An Introduction to the Theory of Numbers by G.H. Hardy and E. M. Wright is found on the reading list of virtually all elementary number theory courses and is widely regarded as the primary and classic text in elementary number theory.

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