

Some Solutions for Burton's Elementary Number Theory

2 Divisibility Theory in the Integers

2.4 The Euclidean Algorithm

10 Given nonzero integers a and b , establish the following facts concerning $\text{lcm}(a, b)$:
(a) $\text{gcd}(a, b) = \text{lcm}(a, b)$ if and only if $a = \pm b$.
(b) If $k > 0$, then $\text{lcm}(ka, kb) = k\text{lcm}(a, b)$.
(c) If m is any common multiple of a and b , then $\text{lcm}(a, b) \mid m$. [Hint: Put $t = \text{lcm}(a, b)$ and use the Division Algorithm to write $m = qt + r$, where $0 \leq r < t$. Show that r is a common multiple of a and b .]

Solution: (a) If $a = \pm b$ then $\text{gcd}(a, b) = |a| = \text{lcm}(a, b)$.
Conversely if $\text{gcd}(a, b) = \text{lcm}(a, b)$ then $a \mid \text{lcm}(a, b)$ and $\text{lcm}(a, b) = \text{gcd}(a, b) \mid a$ tells us that $\text{lcm}(a, b) = \pm a$. Similarly, $\text{lcm}(a, b) = \pm b$ so $a = \pm b$.
(b) By Theorem 2.7, since $k > 0$ we know $\text{gcd}(ka, kb) = k\text{gcd}(a, b)$. So $\text{lcm}(ka, kb)k\text{gcd}(a, b) = k^2ab = k^2\text{lcm}(a, b)\text{gcd}(a, b)$ so $\text{lcm}(ka, kb) = k\text{lcm}(a, b)$.
(c) Let $t = \text{lcm}(a, b)$. By the Division Algorithm, there exist integers q and $0 \leq r < t$ such that $m = qt + r$. Then $r = m - qt$ so since a and b both divide m and t , they also divide r . So r is a common multiple of a and b strictly less than the lowest positive common multiple, so $r = 0$. So $m = qt$ which means $t \mid m$.

2.5 The Diophantine equation $ax + by = c$

4 If a and b are relatively prime positive integers, prove that the Diophantine equation $ax - by = c$ has infinitely many solutions in the positive integers. [Hint: There exist integers x_0 and y_0 such that $ax_0 + by_0 = c$. For any integer t , which is larger than both $|x_0|/b$ and $|y_0|/a$, a positive solution is $x = x_0 + bt, y = -(y_0 - at)$.]

Solution using hint: Since $\text{gcd}(a, b) = 1 \mid c$ we know there exist integers x_0, y_0 such that $ax_0 + by_0 = c$ by Theorem 2.9. Consider $x = x_0 + bt, y = -(y_0 - at)$. Need to show they are solutions and they are positive.

$$ax - by = ax_0 + abt + by_0 - abt = ax_0 + by_0 = c.$$

So they are solutions.

Now we show they are positive if $t > \frac{|y_0|}{a}, \frac{|x_0|}{b}$. If $t > \frac{|y_0|}{a}$ then $x = x_0 + bt > x_0 + |x_0| \geq 0$ and if $t > \frac{|x_0|}{b}$ then $y = -(y_0 - at) > -(y_0 - |y_0|) \geq 0$. (You may show $x_0 + |x_0| \geq 0$ by considering cases where $x_0 \geq 0$ and $x_0 < 0$.)
So we have positive solutions for infinitely many t .

Alternative solution (basically the same): By Corollary to Theorem 2.9, there is a solution x_0, y_0 and all other solutions are of the form $x = x_0 - bt, y = y_0 - at$. If $t < \frac{x_0}{b}, \frac{y_0}{a}$ so $-bt > -x_0$ and $-at > -y_0$. So $x = x_0 - bt > x_0 - x_0 = 0$ and $y = y_0 - at > y_0 - y_0 = 0$. So x, y are positive solutions for all t small enough, and there are infinitely many such t .

Note: Remember to write that if $t < \frac{x_0}{b}$ then $x > 0$ and not the other way round! (Actually it's an if and only if, but the direction we care about is $t < \frac{x_0}{b} \implies x > 0$).

3 Primes and their distribution

3.1 The fundamental theorem of arithmetic

5(b) If $\text{gcd}(a, b) = p$, a prime, what are the possible values of $\text{gcd}(a^2, b^2), \text{gcd}(a^2, b), \text{gcd}(a^2, b^2)$?

Solution: $a = pm, b = pn$ where $\text{gcd}(m, n) = 1$ so $\text{gcd}(a^2, b^2) = p^2 \text{gcd}(m, n) = p^2$.
Note that p cannot divide both m and n .

$$\text{gcd}(a^2, b) = p \text{gcd}(pm^2, n) = \begin{cases} p & \text{if } p \nmid n \\ p^2 & \text{if } p \mid n \end{cases}$$

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Student's Solutions Manual Elementary Number Theory David Burton, 2010-01-29 [Student's Solutions Manual to accompany Elementary Number Theory](#) David Burton, 2005-09-26 **Elementary Number Theory** Gareth A. Jones, Josephine M. Jones, 2012-12-06 An undergraduate level introduction to number theory with the emphasis on fully explained proofs and examples Exercises together with their solutions are integrated into the text and the first few chapters assume only basic school algebra Elementary ideas about groups and rings are then used to study groups of units quadratic residues and arithmetic functions with applications to enumeration and cryptography The final part suitable for third year students uses ideas from algebra analysis calculus and geometry to study Dirichlet series and sums of squares In particular the last chapter gives a concise account of Fermat's Last Theorem from its origin in the ancient Babylonian and Greek study of Pythagorean triples to its recent proof by Andrew Wiles **Elementary Number Theory: Primes, Congruences, and Secrets** William Stein, 2008-10-28 This is a book about prime numbers congruences secret messages and elliptic curves that you can read cover to cover It grew out of undergraduate courses that the author taught at Harvard UC San Diego and the University of Washington The systematic study of number theory was initiated around 300 B C when Euclid proved that there are infinitely many prime numbers and also cleverly deduced the fundamental theorem of arithmetic which asserts that every positive integer factors uniquely as a product of primes Over a thousand years later around 972 A D Arab mathematicians formulated the congruent number problem that asks for a way to decide whether or not a given positive integer n is the area of a right triangle all three of whose sides are rational numbers Then another thousand years later in 1976 Diffie and Hellman introduced the first ever public key cryptosystem which enabled two people to communicate secretly over a public communications channel with no predetermined secret this invention and the ones that followed it revolutionized the world of digital communication In the 1980s and 1990s elliptic curves revolutionized number theory providing striking new insights into the congruent number problem primality testing public key cryptography attacks on public key systems and playing a central role in Andrew Wiles' resolution of Fermat's Last Theorem **Elementary Number Theory** Underwood Dudley, 2012-06-04 Written in a lively engaging style by the author of popular mathematics books this volume features nearly 1 000 imaginative exercises and problems Some solutions included 1978 edition **Elementary Number Theory** James S. Kraft, Lawrence C. Washington, 2014-11-24 Elementary Number Theory takes an accessible approach to teaching students about the role of number theory in pure mathematics and its important applications to cryptography and other areas The first chapter of the book explains how to do proofs and includes a brief discussion of lemmas propositions theorems and corollaries The core of the text covers linear Diophantine equations unique factorization congruences Fermat's Euler's and Wilson's theorems order and primitive roots and quadratic reciprocity The authors also discuss numerous cryptographic

topics such as RSA and discrete logarithms along with recent developments The book offers many pedagogical features The check your understanding problems scattered throughout the chapters assess whether students have learned essential information At the end of every chapter exercises reinforce an understanding of the material Other exercises introduce new and interesting ideas while computer exercises reflect the kinds of explorations that number theorists often carry out in their research

Elements of Number Theory John Stillwell,2012-11-12 Solutions of equations in integers is the central problem of number theory and is the focus of this book The amount of material is suitable for a one semester course The author has tried to avoid the ad hoc proofs in favor of unifying ideas that work in many situations There are exercises at the end of almost every section so that each new idea or proof receives immediate reinforcement

Elementary Number Theory Kenneth H. Rosen,2013-10-03 Elementary Number Theory 6th Edition blends classical theory with modern applications and is notable for its outstanding exercise sets A full range of exercises from basic to challenging helps students explore key concepts and push their understanding to new heights Computational exercises and computer projects are also available Reflecting many years of professor feedback this edition offers new examples exercises and applications while incorporating advancements and discoveries in number theory made in the past few years The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed

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250 Problems in Elementary Number Theory Waław Sierpiński,Waław Sierpinski,1970

Discrete Mathematics and Its Applications Kenneth H. Rosen,2007 The companion Web site To the student The foundations logic sets and functions The fundamentals algorithms the integers and matrices Mathematical reasoning Counting Advanced counting techniques Relations Graphs Trees Boolean algebra Modeling computation

Introduction to Analytic Number Theory Tom M. Apostol,2013-06-29 This book is the first volume of a two volume textbook for undergraduates and is indeed the crystallization of a course offered by the author at the California Institute of Technology to undergraduates without any previous knowledge of number theory For this reason the book starts with the most elementary properties of the natural integers Nevertheless the text succeeds in presenting an enormous amount of material in little more than 300 pages MATHEMATICAL REVIEWS

Elementary Introduction to Number Theory Calvin T. Long,1972

An Introduction to Diophantine Equations Titu Andreescu,Dorin Andrica,Ion Cucurezeanu,2010-09-02 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 presented with original solutions An Introduction to Diophantine Equations A Problem Based Approach is intended for undergraduates advanced high school students and teachers mathematical contest participants including Olympiad and Putnam competitors as well as readers interested in essential mathematics The work uniquely presents unconventional and non routine examples ideas and techniques

A First Course in Rings and Ideals David M. Burton, 1970

Number Theory Titu Andreescu, Dorin Andrica, 2009-06-12 This introductory textbook takes a problem solving approach to number theory situating each concept within the framework of an example or a problem for solving Starting with the essentials the text covers divisibility unique factorization modular arithmetic and the Chinese Remainder Theorem Diophantine equations binomial coefficients Fermat and Mersenne primes and other special numbers and special sequences Included are sections on mathematical induction and the pigeonhole principle as well as a discussion of other number systems By emphasizing examples and applications the authors motivate and engage readers

A Modern Introduction To Classical Number Theory Tianxin Cai, 2021-07-21 Natural numbers are the oldest human invention This book describes their nature laws history and current status It has seven chapters The first five chapters contain not only the basics of elementary number theory for the convenience of teaching and continuity of reading but also many latest research results The first time in history the traditional name of the Chinese Remainder Theorem is replaced with the Qin Jiushao Theorem in the book to give him a full credit for his establishment of this famous theorem in number theory Chapter 6 is about the fascinating congruence modulo an integer power and Chapter 7 introduces a new problem extracted by the author from the classical problems of number theory which is out of the combination of additive number theory and multiplicative number theory One feature of the book is the supplementary material after each section there by broadening the reader's knowledge and imagination These contents either discuss the rudiments of some aspects or introduce new problems or conjectures and their extensions such as perfect number problem Egyptian fraction problem Goldbach's conjecture the twin prime conjecture the $3x+1$ problem Hilbert Waring problem Euler's conjecture Fermat's Last Theorem Landau's problem and etc This book is written for anyone who loves natural numbers and it can also be read by mathematics majors graduate students and researchers The book contains many illustrations and tables Readers can appreciate the author's sensitivity of history broad range of knowledge and elegant writing style while benefiting from the classical works and great achievements of masters in number theory

[Elementary Number Theory in Nine Chapters](#) James J. Tattersall, 1999-10-14 This book is intended to serve as a one semester introductory course in number theory Throughout the book a historical perspective has been adopted and emphasis is given to some of the subject's applied aspects in particular the field of cryptography is highlighted At the heart of the book are the major number theoretic accomplishments

of Euclid Fermat Gauss Legendre and Euler and to fully illustrate the properties of numbers and concepts developed in the text a wealth of exercises have been included It is assumed that the reader will have pencil in hand and ready access to a calculator or computer For students new to number theory whatever their background this is a stimulating and entertaining introduction to the subject

Elementary Number Theory Charles Vanden Eynden, 2006-02-15 This practical and versatile text evolved from the author's years of teaching experience and the input of his students Vanden Eynden strives to alleviate the anxiety that many students experience when approaching any proof oriented area of mathematics including number theory His informal yet straightforward writing style explains the ideas behind the process of proof construction showing that mathematicians develop theorems and proofs from trial and error and evolutionary improvement not spontaneous insight Furthermore the book includes more computational problems than most other number theory texts to build students familiarity and confidence with the theory behind the material The author has devised the content organization and writing style so that information is accessible students can gain self confidence with respect to mathematics and the book can be used in a wide range of courses from those that emphasize history and type A problems to those that are proof oriented

An Illustrated Theory of Numbers Martin H. Weissman, 2020-09-15 News about this title Author Marty Weissman has been awarded a Guggenheim Fellowship for 2020 Learn more here Selected as a 2018 CHOICE Outstanding Academic Title 2018 PROSE Awards Honorable Mention *An Illustrated Theory of Numbers* gives a comprehensive introduction to number theory with complete proofs worked examples and exercises Its exposition reflects the most recent scholarship in mathematics and its history Almost 500 sharp illustrations accompany elegant proofs from prime decomposition through quadratic reciprocity Geometric and dynamical arguments provide new insights and allow for a rigorous approach with less algebraic manipulation The final chapters contain an extended treatment of binary quadratic forms using Conway's topograph to solve quadratic Diophantine equations e.g. Pell's equation and to study reduction and the finiteness of class numbers Data visualizations introduce the reader to open questions and cutting edge results in analytic number theory such as the Riemann hypothesis boundedness of prime gaps and the class number 1 problem Accompanying each chapter historical notes curate primary sources and secondary scholarship to trace the development of number theory within and outside the Western tradition Requiring only high school algebra and geometry this text is recommended for a first course in elementary number theory It is also suitable for mathematicians seeking a fresh perspective on an ancient subject

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Elementary Number Theory Burton Solutions Pdf Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Elementary Number Theory Burton Solutions Pdf**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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