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The Society of Natural History also held its anniversary yesterday afternoon ... the Bradley Prize for Mathematics, to Isaac E. Hasbrouck. The President then stated that Dr. LINDSEY A.

COMMENCEMENT SEASON.;

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*RULGER'S COLLEGE. Beginning of
the Commencement Exercises. The
Junior Exhibition Conferring Degrees.*
Each month he treated his readers to
a tour of some mathematical
recreation that he made tantalizing for
people who, like himself, had no
advanced training in mathematics ...

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*Martin Gardner in the Twenty-First
Century*

Sean Stilwell presents us with a powerful entry into the rich debate on the nature and history of slavery and slaving in Africa. His book represents

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both a valuable point of entry for any scholar ...

Slavery and Slaving in African History

With her consistent scoring, Sapulpa won its fifth state championship in school history and its first in 14 years. Poindexter's father Ray also played at

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Tulsa, and was an all-stater at
Sapulpa.

*All-World Awards 2021: Future Tulsa
stars Ostroski, Poindexter take Boys,
Girls Athlete of the Year*

Each month he treated his readers to
a tour of some mathematical

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recreation that he made tantalizing for people who, like himself, had no advanced training in mathematics ... the English word 'snark' ...

Martin Gardner in the Twenty-First Century

"Sean Stilwell presents us with a

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powerful entry into the rich debate on the nature and history of slavery and slaving in Africa. His book represents both a valuable point of entry for any scholar ...

A concise, unified view of mathematics

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together with its historical development. Aiming at mathematicians who have mastered the basic topics but wish to gain a better grasp of mathematics as a whole, the author gives the reasons for the emergence of the main fields of modern mathematics, and explains the

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connections between them by tracing the course of a few mathematical themes from ancient times down to the 20th century. The emphasis here is on history as a method for unifying and motivating mathematics, rather than as an end in itself, and there is more mathematical detail than in other

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History Solutions. However, no general historical expertise is assumed, and classical mathematics is rephrased in modern terms where needed. Nevertheless, there are copious references to original sources for readers wishing to explore the classics for themselves. In summary, readers

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will be able to add to their
mathematical knowledge as well as
gaining a new perspective on what
they already know.

This textbook provides a unified and
concise exploration of undergraduate
mathematics by approaching the

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History through its history. Readers will discover the rich tapestry of ideas behind familiar topics from the undergraduate curriculum, such as calculus, algebra, topology, and more. Featuring historical episodes ranging from the Ancient Greeks to Fermat and Descartes, this volume offers a

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glimpse into the broader context in which these ideas developed, revealing unexpected connections that make this ideal for a senior capstone course. The presentation of previous versions has been refined by omitting the less mainstream topics and inserting new connecting material,

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allowing instructors to cover the book in a one-semester course. This condensed edition prioritizes succinctness and cohesiveness, and there is a greater emphasis on visual clarity, featuring full color images and high quality 3D models. As in previous editions, a wide array of mathematical

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topics are covered, from geometry to computation; however, biographical sketches have been omitted.

Mathematics and Its History: A Concise Edition is an essential resource for courses or reading programs on the history of mathematics. Knowledge of basic

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calculus, algebra, geometry, topology, and set theory is assumed. From reviews of previous editions:

“Mathematics and Its History is a joy to read. The writing is clear, concise and inviting. The style is very different from a traditional text. I found myself picking it up to read at the expense of

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my usual late evening thriller or detective novel.... The author has done a wonderful job of tying together the dominant themes of undergraduate mathematics." Richard J. Wilders, MAA, on the Third Edition "The book...is presented in a lively style without unnecessary detail. It is very

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stimulating and will be appreciated not only by students. Much attention is paid to problems and to the development of mathematics before the end of the nineteenth century.... This book brings to the non-specialist interested in mathematics many interesting results. It can be

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recommended for seminars and will be enjoyed by the broad mathematical community." European Mathematical Society, on the Second Edition

Elements of Mathematics takes readers on a fascinating tour that begins in elementary

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mathematics—but, as John Stillwell shows, this subject is not as elementary or straightforward as one might think. Not all topics that are part of today's elementary mathematics were always considered as such, and great mathematical advances and discoveries had to occur in order for

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History subjects to become "elementary." Stillwell examines elementary mathematics from a distinctive twenty-first-century viewpoint and describes not only the beauty and scope of the discipline, but also its limits. From Gaussian integers to propositional logic, Stillwell delves

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into arithmetic, computation, algebra, geometry, calculus, combinatorics, probability, and logic. He discusses how each area ties into more advanced topics to build mathematics as a whole. Through a rich collection of basic principles, vivid examples, and interesting problems, Stillwell

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History Solutions demonstrates that elementary mathematics becomes advanced with the intervention of infinity. Infinity has been observed throughout mathematical history, but the recent development of "reverse mathematics" confirms that infinity is essential for proving well-known theorems, and

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helps to determine the nature, contours, and borders of elementary mathematics. Elements of Mathematics gives readers, from high school students to professional mathematicians, the highlights of elementary mathematics and glimpses of the parts of math beyond its

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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

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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.

A beautiful and relatively elementary account of a part of mathematics

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where three main fields - algebra, analysis and geometry - meet. The book provides a broad view of these subjects at the level of calculus, without being a calculus book. Its roots are in arithmetic and geometry, the two opposite poles of mathematics, and the source of historic conceptual

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conflict. The resolution of this conflict, and its role in the development of mathematics, is one of the main stories in the book. Stillwell has chosen an array of exciting and worthwhile topics and elegantly combines mathematical history with mathematics. He covers the main

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Ideas of Euclid, but with 2000 years of extra insights attached. Presupposing only high school algebra, it can be read by any well prepared student entering university. Moreover, this book will be popular with graduate students and researchers in mathematics due to its attractive and

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unusual treatment of fundamental topics. A set of well-written exercises at the end of each section allows new ideas to be instantly tested and reinforced.

This Element aims to present an outline of mathematics and its history,

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with particular emphasis on events that shook up its philosophy. It ranges from the discovery of irrational numbers in ancient Greece to the nineteenth- and twentieth-century discoveries on the nature of infinity and proof. Recurring themes are intuition and logic, meaning and

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History, Solutions, and the discrete and the continuous. These themes have evolved under the influence of new mathematical discoveries and the story of their evolution is, to a large extent, the story of philosophy of mathematics.

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Winner of a CHOICE Outstanding Academic Title Award for 2011! This book offers an introduction to modern ideas about infinity and their implications for mathematics. It unifies ideas from set theory and mathematical logic, and traces their effects on mainstream mathematical

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topics of today, such as number theory and combinatorics. The treatment is historical and partly informal, but with due attention to the subtleties of the subject. Ideas are shown to evolve from natural mathematical questions about the nature of infinity and the nature of proof, set against a

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background of broader questions and developments in mathematics. A particular aim of the book is to acknowledge some important but neglected figures in the history of infinity, such as Post and Gentzen, alongside the recognized giants Cantor and Gödel.

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Algebra is abstract mathematics - let us make no bones about it - yet it is also applied mathematics in its best and purest form. It is not abstraction for its own sake, but abstraction for the sake of efficiency, power and insight. Algebra emerged from the struggle to

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solve concrete, physical problems in geometry, and succeeded after 2000 years of failure by other forms of mathematics. It did this by exposing the mathematical structure of geometry, and by providing the tools to analyse it. This is typical of the way algebra is applied; it is the best and

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purest form of application because it reveals the simplest and most universal mathematical structures. The present book aims to foster a proper appreciation of algebra by showing abstraction at work on concrete problems, the classical problems of construction by straightedge and

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compass. These problems originated in the time of Euclid, when geometry and number theory were paramount, and were not solved until the 19th century, with the advent of abstract algebra. As we now know, algebra brings about a unification of geometry, number theory and indeed most

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branches of mathematics. This is not really surprising when one has a historical understanding of the subject, which I also hope to impart.

This book explores the history of mathematics from the perspective of the creative tension between common

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sense and the "impossible" as the author follows the discovery or invention of new concepts that have marked mathematical progress: - Irrational and Imaginary Numbers - The Fourth Dimension - Curved Space - Infinity and others The author puts these creations into a broader context

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involving related "impossibilities" from art, literature, philosophy, and physics. By imbedding mathematics into a broader cultural context and through his clever and enthusiastic explication of mathematical ideas the author broadens the horizon of students beyond the narrow confines of rote

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memorization and engages those who are curious about the place of mathematics in our intellectual landscape.

Unusually clear, accessible introduction covers counting, properties of numbers, prime numbers,

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Aliquot parts, Diophantine problems,
congruences, much more.

Bibliography.

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