

MATHEMATICS IN ANCIENT GREECE



TOBIAS DANTZIG

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Robert K. Logan



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Mathematics in Ancient Greece Tobias Dantzig, 2006-11-17 Originally published New York Scribner 1955

Mathematics in Ancient Greece Tobias Dantzig, 2012-10-02 More than a history of mathematics this lively book traces mathematical ideas and processes to their sources stressing the methods used by the masters of the ancient world Author Tobias Dantzig portrays the human story behind mathematics showing how flashes of insight in the minds of certain gifted individuals helped mathematics take enormous forward strides Dantzig demonstrates how the Greeks organized their precursors melange of geometric maxims into an elegantly abstract deductive system He also explains the ways in which some of the famous mathematical brainteasers of antiquity led to the development of whole new branches of mathematics A book that will both instruct and delight the mathematically minded this volume is also a treat for readers interested in the history of science Students and teachers of mathematics will particularly appreciate its unusual combination of human interest and sound scholarship

The Metaphysics of the Pythagorean Theorem Robert Hahn, 2017-05-01 Bringing together geometry and philosophy this book undertakes a strikingly original study of the origins and significance of the Pythagorean theorem Thales whom Aristotle called the first philosopher and who was an older contemporary of Pythagoras posited the principle of a unity from which all things come and back into which they return upon dissolution He held that all appearances are only alterations of this basic unity and there can be no change in the cosmos Such an account requires some fundamental geometric figure out of which appearances are structured Robert Hahn argues that Thales came to the conclusion that it was the right triangle by recombination and repackaging all alterations can be explained from that figure This idea is central to what the discovery of the Pythagorean theorem could have meant to Thales and Pythagoras in the sixth century BCE With more than two hundred illustrations and figures Hahn provides a series of geometric proofs for this lost narrative tracing it from Thales to Pythagoras and the Pythagoreans who followed and then finally to Plato's Timaeus Uncovering the philosophical motivation behind the discovery of the theorem Hahn's book will enrich the study of ancient philosophy and mathematics alike

Aristotle's Metaphysics Lambda Stefan Alexandru, 2014-09-04 In this annotated critical edition of Aristotle's Metaphysics Lambda Stefan Alexandru explores and utilizes for the first time numerous previously neglected textual sources written in Greek Latin Arabic and Hebrew The twelfth book of the Metaphysics originally an independent treatise is crucial for the understanding of Aristotle's philosophy primarily because the doctrine of the Unmoved Mover is nowhere else set forth in greater detail Not only all the forty two formerly known Greek codices have been collated but also commentaries and translations Moreover a hitherto undiscovered independent manuscript representing a tenuous and particularly valuable branch of the direct tradition is minutely investigated The document in question preserved in the Vatican is an autograph of the Byzantine humanist and Ecumenical Patriarch Gennadios II Scholarios

Number Tobias Dantzig, Joseph Mazur, 2007-01-30 Beyond doubt the most interesting book on the evolution of mathematics which has ever

fallen into my hands Albert Einstein Number is an eloquent accessible tour de force that reveals how the concept of number evolved from prehistoric times through the twentieth century Renowned professor of mathematics Tobias Dantzig shows that the development of math from the invention of counting to the discovery of infinity is a profoundly human story that progressed by trying and erring by groping and stumbling He shows how commerce war and religion led to advances in math and he recounts the stories of individuals whose breakthroughs expanded the concept of number and created the mathematics that we know today *Paths Between Head and Heart* Oliver C. Robinson,2018-08-31 *Paths Between Head and Heart* provides an accessible but comprehensive account of how science and spirituality relate not as enemies but as partners in the quest for a truth that is greater than either one can understand alone While many books have been written on science and religion not many have looked at how spirituality and science exist as complementary parts of a larger whole and how they relate specifically to the transitional challenges that define our era **Mathematical Reviews** ,2007

Mathematics Before and After Pythagoras Ravi P. Agarwal,2024-11-29 This book provides the reader with a comprehensive account of the contributions of Pythagoras to mathematics and philosophy using them as a starting point to compare pre Pythagorean accomplishments with the myriad mathematical developments that followed It begins with a thorough study of Pythagoreanism and the early Pythagoreans including the major events in Pythagoras life and the origins of the mystical significance attributed by Pythagoreans to natural numbers From Chapter 3 onward the book describes how mathematical thinking works and prepares the reader for the subsequent chapters which cover mathematical logic and proofs their application to the study of natural and prime numbers the investigation of Pythagorean triples figurative numbers and irrational numbers all interwoven with rich historical context Aimed at students and teachers at all levels this work is accessible to non mathematicians as well with the main prerequisite being an avid curiosity about some of the ideas and thinkers that helped to forge the mathematical world as we know it Early praises for *Mathematics Before and After Pythagoras* Your book is charming and fun to read It would be fine to be able to teach from it Steve Krantz USA your new book an obvious labor of love I can see that it will be an inspiration for young students Bruce Berndt USA It is an excellent book and I am deeply grateful for sending it to me It is an extraordinary gift and I am so grateful for this Carlo Cattani Italy I am really impressed by the wealth of interesting material you have collected and presented Rainer Kress Germany *The Story of Science: Aristotle Leads the Way* Joy Hakim,2016-04-26 Readers will travel back in time to ancient Babylonia Egypt and Greece They will meet the world s first astronomers mathematicians and physicists and explore the lives and ideas of such famous people as Pythagoras Archimedes Brahmagupta al Khwarizmi Fibonacci Ptolemy St Augustine and St Thomas Aquinas Hakim will introduce them to Aristotle one of the greatest philosophers of all time whose scientific ideas dominated much of the world for eighteen centuries In the three book *The Story of Science* series master storyteller Joy Hakim narrates the evolution of scientific thought from ancient times to the present With lively character driven narrative Hakim spotlights

the achievements of some of the world's greatest scientists and encourages a similar spirit of inquiry in readers. The books include hundreds of color photographs, charts, maps, and diagrams; informative sidebars; suggestions for further reading; and excerpts from the writings of great scientists.

The Pythagorean Theorem Eli Maor, 2019-11-19 An exploration of one of the most celebrated and well-known theorems in mathematics. By any measure, the Pythagorean theorem is the most famous statement in all of mathematics. In this book, Eli Maor reveals the full story of this ubiquitous geometric theorem. Although attributed to Pythagoras, the theorem was known to the Babylonians more than a thousand years earlier. Pythagoras may have been the first to prove it, but his proof, if indeed he had one, is lost to us. The theorem itself, however, is central to almost every branch of science, pure or applied. Maor brings to life many of the characters that played a role in its history, providing a fascinating backdrop to perhaps our oldest enduring mathematical legacy.

Adult Catalog: Subjects Los Angeles County Public Library, 1970

What is Contemporary Mathematics William Leonard Schaaf, 1966

History of Political Economy, 1969

Toward better writing John C. Gerber, 1958

The History of Mathematics David M. Burton, 1991

This text is designed for the junior/senior mathematics major who intends to teach mathematics in high school or college. It concentrates on the history of those topics typically covered in an undergraduate curriculum or in elementary schools or high schools. At least one year of calculus is a prerequisite for this course. This book contains enough material for a 2-semester course, but it is flexible enough to be used in the more common 1-semester course.

Burton's History of Mathematics David M. Burton, 1995

Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 New York Public Library. Research Libraries, 1979

The Alphabet Effect Robert K. Logan, 2004 This book is a study of the evolution of writing systems. It describes the role the phonetic alphabet has played in the development of Western civilization. Drawing a variety of conclusions about how societies advance, the author shows how the advent of mass communication and the use of computers affect how we communicate.

Architecture and Mathematics from Antiquity to the Future Kim Williams, Michael J. Ostwald, 2015-02-09 Every age and every culture has relied on the incorporation of mathematics in their works of architecture to imbue the built environment with meaning and order. Mathematics is also central to the production of architecture, to its methods of measurement, fabrication, and analysis. This two-volume edited collection presents a detailed portrait of the ways in which two seemingly different disciplines are interconnected. Over almost 100 chapters, it illustrates and examines the relationship between architecture and mathematics. Contributors of these chapters come from a wide range of disciplines and backgrounds: architects, mathematicians, historians, theoreticians, scientists, and educators. Through this work, architecture may be seen and understood in a new light by professionals as well as non-professionals. Volume I covers architecture from antiquity through Egyptian, Mayan, Greek, Roman, Medieval, Incan, Gothic, and early Renaissance eras and styles. The themes that are covered range from symbolism and proportion to measurement and structural stability. From Europe to Africa, Asia, and South America, the chapters span different countries, cultures, and practices.

To Infinity and

Beyond Eli Maor, 2017-11-21 Eli Maor examines the role of infinity in mathematics and geometry and its cultural impact on the arts and sciences. He evokes the profound intellectual impact the infinite has exercised on the human mind from the horror infiniti of the Greeks to the works of M. C. Escher from the ornamental designs of the Moslems to the sage Giordano Bruno whose belief in an infinite universe led to his death at the hands of the Inquisition. But above all the book describes the mathematician's fascination with infinity, a fascination mingled with puzzlement. Maor explores the idea of infinity in mathematics and in art and argues that this is the point of contact between the two best exemplified by the work of the Dutch artist M. C. Escher, six of whose works are shown here in beautiful color plates. Los Angeles Times. Eli Maor's enthusiasm for the topic carries the reader through a rich panorama. Choice. Fascinating and enjoyable places the ideas of infinity in a cultural context and shows how they have been espoused and molded by mathematics. Science.

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Table of Contents Mathematics In Ancient Greece Tobias Dantzig

1. Understanding the eBook Mathematics In Ancient Greece Tobias Dantzig
 - The Rise of Digital Reading Mathematics In Ancient Greece Tobias Dantzig
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics In Ancient Greece Tobias Dantzig
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics In Ancient Greece Tobias Dantzig
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics In Ancient Greece Tobias Dantzig
 - Personalized Recommendations
 - Mathematics In Ancient Greece Tobias Dantzig User Reviews and Ratings
 - Mathematics In Ancient Greece Tobias Dantzig and Bestseller Lists

5. Accessing Mathematics In Ancient Greece Tobias Dantzig Free and Paid eBooks
 - Mathematics In Ancient Greece Tobias Dantzig Public Domain eBooks
 - Mathematics In Ancient Greece Tobias Dantzig eBook Subscription Services
 - Mathematics In Ancient Greece Tobias Dantzig Budget-Friendly Options
6. Navigating Mathematics In Ancient Greece Tobias Dantzig eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics In Ancient Greece Tobias Dantzig Compatibility with Devices
 - Mathematics In Ancient Greece Tobias Dantzig Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics In Ancient Greece Tobias Dantzig
 - Highlighting and Note-Taking Mathematics In Ancient Greece Tobias Dantzig
 - Interactive Elements Mathematics In Ancient Greece Tobias Dantzig
8. Staying Engaged with Mathematics In Ancient Greece Tobias Dantzig
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics In Ancient Greece Tobias Dantzig
9. Balancing eBooks and Physical Books Mathematics In Ancient Greece Tobias Dantzig
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics In Ancient Greece Tobias Dantzig
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics In Ancient Greece Tobias Dantzig
 - Setting Reading Goals Mathematics In Ancient Greece Tobias Dantzig
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics In Ancient Greece Tobias Dantzig
 - Fact-Checking eBook Content of Mathematics In Ancient Greece Tobias Dantzig
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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