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RIVAS PATRICK

Advanced Euclidean Geometry Courier Corporation

Fascinating, accessible introduction to unusual mathematical system in which distance is not measured by straight lines. Illustrated topics include applications to urban geography and comparisons to Euclidean geometry. Selected answers to problems.

Geometry, Its Elements and Structure Perfection Learning

This classic text explores the geometry of the triangle and the circle, concentrating on extensions of Euclidean theory, and examining in detail many relatively recent theorems. 1929 edition.

Pascal's Arithmetical Triangle Prometheus Books

Research shows that students learn best when they actively participate in their learning. In particular, hands-on activities provide the greatest opportunities for gaining understanding and promoting retention. Apart from simple manipulatives, the mathematics classroom offers few options for hands-on activities. However, the history of mathematics offers many ways to incorporate hands-on learning. By bringing this material culture of mathematics into the classroom, students can experience historical applications and uses of mathematics in a setting rich in discovery and intellectual interest. This volume is a compilation of articles from researchers and educators who use the history of mathematics to facilitate active learning in the classroom. The contributions range from simple devices, such as the rectangular protractor, to elaborate models of descriptive geometry. Other chapters provide detailed descriptions on how to build and use historical models in the high school or collegiate classroom.

Journey into Mathematics Pearson

Explores Thales's speculative philosophy through a study of geometrical diagrams. 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.

The Pythagorean Triangle WestBow Press

This classic study probes the geometric interrelationships between art and life in discussions ranging from dissertations by Plato, Pythagoras, and Archimedes to examples of modern architecture and art. Other topics include the Golden Section, geometrical shapes on the plane, geometrical shapes in space, crystal lattices, and other fascinating subjects. 80 plates and 64 figures.

The Book of Tangrams Courier Corporation

Although we all remember the Pythagorean Theorem from our school days, not until you read this book will you find out about the marvelous treasures this most famous mathematical concept holds. In an easily understood manner, the author entertains us with the wonders surrounding this theorem. This is the sort of treatment that will help popularize mathematics!-Charlotte K. Frank, PhD, SVP, research and development, McGraw-Hill Education, The McGraw-Hill CompaniesUsing the familiar Pythagorean theorem as the main theme the authors show the power and beauty of mathematics as we would have perhaps wished to have seen it when we were first introduced to this ubiquitous theorem in our school days. This book is a must read for anyone with even a small interest in mathematics.-Daniel Jaye, principal, Bergen County Academies, Hackensack, NJThe first time I have enjoyed anything about mathematics.-Bob Simon, 60 Minutes CorrespondentNot only is this book a very valuable resource for mathematics teachers, but it is also a book that can convince the general public that there is genuine beauty in mathematics. Perhaps this book will help bring 'converts' to mathematics!-Dr. Anton Dobart, director general, Austrian Ministry for Education, Art and CultureIt is often overheard in academic environments that 'math is fun!' This little book on the Pythagorean theorem is surely proof enough, especially since, like the theorem, the fun is on almost every page.-Leon M. Lederman, Nobel laureateThe Pythagorean theorem may be the best-known equation in mathematics. Its origins reach back to the beginnings of civilization, and today every student continues to study it. What most nonmathematicians don't understand or appreciate is why this simply stated theorem has fascinated countless generations.In this entertaining and informative book, veteran math educator Alfred S. Posamentier makes the importance of the Pythagorean theorem delightfully clear.He begins with a brief history of Pythagoras and the early use of his theorem by the ancient Egyptians, Babylonians, Indians, and Chinese, who used it intuitively long before Pythagoras's name was attached to it.He then shows the many ingenious ways in which the theorem has been proved visually using highly imaginative diagrams. Some of these go back to ancient mathematicians; others are comparatively recent proofs, including one by the twentieth president of the United States, James A. Garfield.After demonstrating some curious applications of the theorem, Posamentier then explores the Pythagorean triples, pointing out the many hidden surprises of the three numbers that can represent the sides of the right triangle (e.g. 3, 4, 5 and 5, 12, 13). And many will truly amaze the reader.He then turns to the Pythagorean means (the arithmetic, geometric, and harmonic means). By comparing their magnitudes in a variety of ways, he gives the reader a true appreciation for these mathematical concepts.The final two chapters view the Pythagorean theorem from an artistic point of view-namely, how Pythagoras's work manifests itself in music and how the Pythagorean theorem can influence fractals.Posamentier's lucid presentation and gift for conveying the significance of this key equation to those with little math background will inform, entertain, and inspire the reader, once again demonstrating the power and beauty of mathematics!Alfred S. Posamentier, Ph.D. (New York, NY), is dean of the School of Education and professor of mathematics education at The City College of the City University of New York. He has published more than 40 books in the area of mathematics and mathematics education, including *The Fabulous Fibonacci Numbers*, *Pi: A Biography of the World's Most Mysterious Number*, and *Math Charmers: Tantalizing Tidbits for the Mind*.

Number Theory and Its History The Rosen Publishing Group, Inc

This comprehensive study traces the historic development of division in extreme and mean ratio ("the golden number") from its first appearance in Euclid's Elements through the 18th century. Features numerous illustrations.

Abstract Algebra Prometheus Books

The Pythagorean Theorem, Crown Jewel of Mathematics is a general introduction to the Pythagorean Theorem and its many applications throughout mathematics. The book includes a historical development of the Pythagorean Theorem via a series of proofs that increase in sophistication as centuries progress. Also within the book are chapters addressing mathematical spinoffs including trigonometry, puzzles, and pastimes.

A Long Way from Euclid Createspace Independent Publishing Platform

The challenge of the tangram, the original "Chinese puzzle," lies in your ability to arrange seven geometrical pieces — a square, a rhomboid, and five triangles — into a variety of different shapes. Collected by Sam Loyd, America's great puzzle expert, these 700 endlessly absorbing tangrams offer hours of mind-expanding amusement. Sam Loyd's *The Book of Tangrams* is also a tribute to this tricky and intriguing puzzle. In a famous and delightful spoof of the tangram's history, Loyd includes running commentary on the popular puzzle's origins in ancient China, its religious significance, and its relation to the Pythagorean theorem. But don't let the amusing dialogue fool you! The puzzles are genuine challenges. If you've ever tried your hand at tangrams before, you're probably already addicted to their limitless possibilities. If you haven't, this classic puzzle potpourri will have you hooked in no time! Solutions are included.

The Pythagorean Triangle, Or, the Science of Numbers Courier Corporation

This volume offers a concise, highly focused review of what high school and beginning college undergraduates need to know to successfully solve the trigonometry problems they will encounter on exams. Rigorously tested examples and coherent, to-the-point explanations are presented in an accessible form and will provide valuable assistance in conquering this challenging subject. Rather than serving as a text or treatise, the book focuses on the essentials of trigonometry. All fourteen sections are organized in a manner that allows readers to advance sequentially or to skip around. The approach encourages memorization of ratios and formulas, and the practice problems offer ample opportunities to become comfortable with applying the trig ratios to a variety of settings.

The Metaphysics of the Pythagorean Theorem MAA

The triangle (a cube) conserves a circle.

The Pythagorean Relationship Courier Dover Publications

This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

The Pythagorean Theorem Theclassics.us

Unusually clear, accessible introduction covers counting, properties of numbers, prime numbers, Aliquot parts, Diophantine problems, congruences, much more. Bibliography.

Exploring Mathematics on Your Own Courier Corporation

Discussion ranges from theories of biological growth to intervals and tones in music, Pythagorean numerology, conic sections, Pascal's triangle, the Fibonacci series, and much more. Excellent bridge between science and art. Features 58 figures.

The Divine Proportion Courier Corporation

By virtue of their special algebraic structures, Pythagorean-hodograph (PH) curves offer unique advantages for computer-aided design and manufacturing, robotics, motion control, path planning, computer graphics, animation, and related fields. This book offers a comprehensive and self-contained treatment of the mathematical theory of PH curves, including algorithms for their construction and examples of their practical applications. It emphasizes the interplay of ideas from algebra and geometry and their historical origins and includes many figures, worked examples, and detailed algorithm descriptions.

Pythagorean Theorem Courier Corporation

Explores the aesthetic, emotional, artistic and philosophical significance of geometric figures, scientific patterns and mathematical formulas

The Geometry of Art and Life Courier Corporation

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 Pythagorean Theorem Courier Corporation

Lively guide by a prominent historian focuses on the role of Euclid's Elements in subsequent mathematical developments. Elementary algebra and plane geometry are sole prerequisites. 80 drawings. 1963 edition.

Geometry's Great Thinkers Courier Corporation

This book introduces students to both ancient and modern pioneer figures of geometry. Students are entertainingly guided through important theories and concepts integral to the use of geometry. Includes detailed background information on Pythagoras of Samos, Euclid of Alexandria, Rene Descartes, and Grace Chisholm Young. Fascinating coverage is provided on the models of the

Pythagorean theorem, the basics of Euclidean geometry, and the Cartesian coordinate system.
A First Course in Geometry Courier Corporation

Collection of nearly 200 unusual problems dealing with congruence and parallelism, the Pythagorean theorem, circles, area relationships, Ptolemy and the cyclic quadrilateral, collinearity and concurrency and more. Arranged in order of difficulty. Detailed solutions.