

The Pythagorean Proposition

The Pythagorean PropositionThe Pythagorean TheoremThe Pythagorean PropositionThe Metaphysics of the Pythagorean TheoremThe Pythagorean PropositionJahresbericht über die Fortschritte der klassischen AltertumswissenschaftEssays on TopologyThe Pythagorean PropositionsAhn's Manual of German ConversationBibliotheca scriptorum classicorum et graecorum et latinorumJahresbericht über die Fortschritte der klassischen altertumswissenschaftMathematical MagazineIntroduction to AlgebraPropositionsWorksThe Metaphysics of the Pythagorean TheoremThe ŚulvasūtrasPlane and Solid GeometryPythagorean TheoremNew Plane Geometry Elisha Scott Loomis Eli Maor Elisha Scott Loomis Robert Hahn Elisha Scott Loomis Louis Funar John Andrew Bexell Franz Ahn Rudolf Klusmann Conrad Bursian George Chrystal Andrea Iacona Archimedes Robert Hahn George Thibaut James Howard Gore Alfred S. Posamentier Wooster Woodruff Beman

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the author presents a complex history of the pythagorean theorem examining the earliest evidence of knowledge of the theorem to einstein s theory of relativity

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

this book consists of a collection of articles dedicated to valentin poénaru on topology and geometry in a broad sense poénaru is one of the leading mathematicians whose work had an essential impact on the development of topology in france over the last forty years of the twentieth century the special topics addressed in this volume include hyperbolic geometry 3 manifolds complex and symplectic geometry differential topology combinatorial group theory piecewise linear topology algebraic geometry knots and links homotopy theory braid groups phylogenetics the history of geometry and the philosophy of mathematics this collection of articles written by well known researchers provides a lively insight into a number of current research topics in geometry and topology

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among the numbers of a pythagorean triple will truly amaze the reader posamentier next turns to pythagorean means the arithmetic geometric and harmonic means outlining pythagoras s contributions to the methods used for measuring and comparing quantities in a variety of ways gives the reader a true appreciation for these valuable mathematical concepts finally the last two chapters take a some what different approach to the topic and view the pythagorean theorem from an artistic point of view the author shows how pythagoras s work manifests itself in music and how the pythagorean theorem has influenced fractals including the founding of a new class of fractals called pythagorean trees 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 book jacket

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