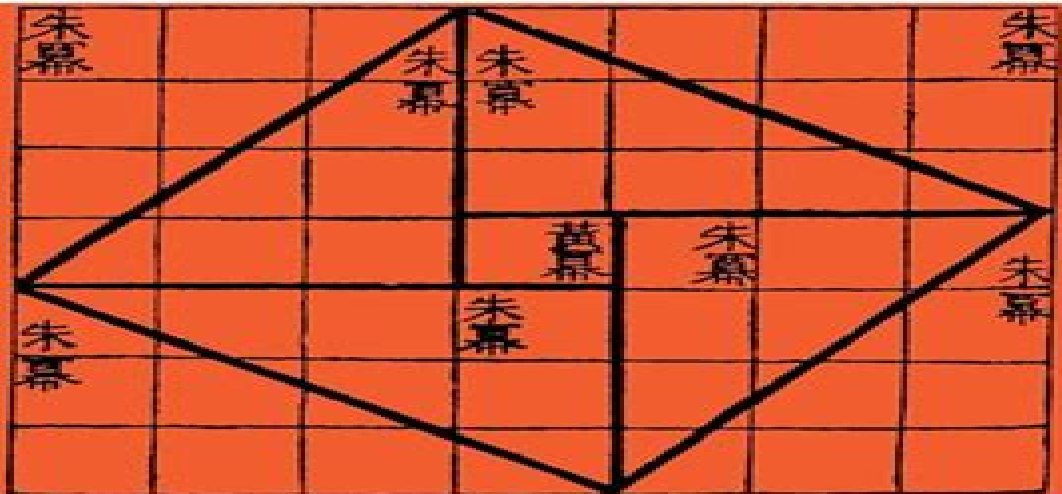


Was Pythagoras Chinese?

Frank J. Swetz and T. I. Kao

勾股容合以成弦容



The Pennsylvania State University Press

National Council of Teachers of Mathematics

Was Pythagoras Chinese An Examination Of Right Triangle Theory In Ancient China

Frank J. Swetz, T. I. Kao



Was Pythagoras Chinese An Examination Of Right Triangle Theory In Ancient China:

Was Pythagoras Chinese? Frank J. Swetz,T. I. Kao,1977 **Was Pythagoras Chinese?** ,1977 **Was Pythagoras Chinese?** ,1979 **Resources in Education** ,1977-12 *The Nine Chapters on the Mathematical Art* Kangshen Shen,John N. Crossley,Anthony Wah-Cheung Lun,1999 The Nine Chapters on the Mathematical Art is a classic text the most important mathematical source in China during the past 2000 years and comparable in significance to Euclid's Elements in the West This volume contains the first complete English translation of the Nine Chapters together with two commentaries written in the 3rd and 7th centuries AD and a further commentary by the translators The Nine Chapters contains 246 problems and their solutions which fall into nine categories that are firmly based on practical needs There are methods for solving problems in areas such as land measurement construction agriculture commerce and taxation The Chinese commentators provided the algorithms needed to solve the problems and explanations of how the algorithms work The translators commentary provides clear and accessible background material for the Western reader explanations of technicalities and notes on the treatment of similar or identical mathematical problems in other countries The Nine Chapters quickly acquired a distinguished reputation and was the standard mathematics textbook in China and the surrounding regions until Western science was introduced in about 1600 This English translation gives the reader an idea of the distinctive style and important contributions of traditional Chinese mathematics Hands on History Amy Shell-Gellasch,2007 In an increasingly electronic society these exercises are designed to help school and collegiate educators use historical devices of mathematics to balance the digital side of mathematics The Oxford Handbook of Science and Medicine in the Classical World Paul Keyser,with John Scarborough,2018-06-26 This handbook synthesizes what is known and debated about science in the classical world of ancient Greece and Rome also touching briefly on Egypt Mesopotamia India and China Each of its many essays provides a synthesis and synopsis of the concepts and models of one of the ancient natural sciences *Geometry* John Tabak,2014-05-14 Greek ideas about geometry straight edge and compass constructions and the nature of mathematical proof dominated mathematical thought for about 2 000 years Fleeting Footsteps Lay Yong Lam,Tian Se Ang,2004 The Hindu Arabic numeral system 1 2 3 is one of mankind's greatest achievements and one of its most commonly used inventions How did it originate Those who have written about the numeral system have hypothesized that it originated in India however there is little evidence to support this claim This book provides considerable evidence to show that the Hindu Arabic numeral system despite its commonly accepted name has its origins in the Chinese rod numeral system This system was widely used in China from antiquity till the 16th century It was used by officials astronomers traders and others to perform addition subtraction multiplication division and other arithmetic operations and also used by mathematicians to develop arithmetic and algebra Based on this system numerous mathematical treatises were written Sun Zi suanjing The Mathematical Classic of Sun Zi written around 400 A D is the earliest existing work to have a description of the rod numerals and their operations

With this treatise as a central reference the first part of the book discusses the development of arithmetic and the beginnings of algebra in ancient China and on the basis of this knowledge advances the thesis that the Hindu Arabic numeral system has its origins in the rod numeral system Part Two gives a complete translation of Sun Zi suanjing In this revised edition Lam Lay Yong has included an edited text of her plenary lecture entitled Ancient Chinese Mathematics and Its Influence on World Mathematics which was delivered at the International Congress of Mathematicians Beijing 2002 after she received the prestigious Kenneth O May Medal conferred by the International Commission on the History of Mathematics This should serve as a useful and easy to comprehend introduction to the book *The Sea Island Mathematical Manual: Surveying and Mathematics in Ancient China* ,1992 An annotated translation and analysis of the Haidao Suanjing a Chinese mathematical classic composed by Liu Hui in A D 263 All ancient societies practiced the art of land surveying In fact tradition tells us that geometry land measure had its origins in such surveying However an examination of early Western literature reveals few records concerning the practical uses of geometry and mathematics in the tasks of surveying Recent research into the content and origins of early Chinese mathematics is beginning to reveal the existence of strong traditions and interest in the methodologies and applications of land survey It is from these Chinese sources that a clearer picture of how people adapted mathematics and geometry to the needs of surveying emerges The Haidao Suanjing or Sea Island Mathematical Manual is one of the Ten Classics of traditional Chinese mathematics and its contents demonstrate the high standards of theoretical and mathematical sophistication present in early Chinese surveying theory The Haidao established the mathematical procedures for much of East Asian surveying activity for the next one thousand years The contents of the Haidao also testify to the ability of the Chinese to systematize mathematics and hint at the use of proof in Chinese mathematics a concept usually associated with Greek mathematical thought Frank Swetz provides an analysis of the Haidao s surveying problems In particular he details surveying techniques and undertakes a mathematical exposition of the Chinese chong cha solution procedures The Haidao is a testimony to the ingenuity and skill of China s early surveyors and its author Liu Hui This study complements and extends the findings of Swetz s previous book Was Pythagoras Chinese An Examination of Right Triangle Theory in Ancient China

Enjoying the Melody of Term: An Mental Symphony within **Was Pythagoras Chinese An Examination Of Right Triangle Theory In Ancient China**

In a world taken by monitors and the ceaseless chatter of instantaneous connection, the melodic splendor and mental symphony developed by the published word frequently disappear in to the back ground, eclipsed by the constant noise and disruptions that permeate our lives. However, nestled within the pages of **Was Pythagoras Chinese An Examination Of Right Triangle Theory In Ancient China** a stunning literary value brimming with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that charming masterpiece conducts viewers on an emotional journey, well unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths of this poignant examination, we shall investigate the book is main harmonies, analyze their enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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