

Regiomontanus On Triangles

De triangulis omnimodis by JOHANN MÜLLER, otherwise known
as Regiomontanus

Translated by BARNABAS HUGHES, O.F.M.

With an Introduction and Notes



Regiomontanus On Triangles

LL Leslie



Regiomontanus On Triangles:

Regiomontanus: On Triangles Joannes Regiomontanus, 1967 Regiomontanus on Triangles Johannes Regiomontanus, 1967 **Regiomontanus on Triangles. De Triangulis Omnimodis ... Translated by Barnabas Hughes ... with an Introduction and Notes. [A Facsimile of the Edition of 1533, with an English Translation. With Portraits.]** Johann MUELLER (Regiomontanus.), Barnabas HUGHES, 1967 **Regiomontanus on Triangles, Etc** Johann Mueller (Regiomontanus.), 1967 *Regiomontanus on Triangles* Johann Müller, 1967 **Regiomontanus on Triangles** Johannes Regiomontanus (Astronom, Herzogtum Würzburg), Barnabas Hughes, 1533 *Regiomontanus on Triangles* Johann Müller, 1967 Regiomontanus: on Triangles. De Triangulis Omnimodis. Translated by Barnabas Hughes, with an Introd. and Notes Johannes Müller (Regiomontanus), 1967 **Regiomontanus on Triangles** Johann Müller, 1967 **The Mathematics of the Heavens and the Earth** Glen Van Brummelen, 2021-08-10 The Mathematics of the Heavens and the Earth is the first major history in English of the origins and early development of trigonometry Glen Van Brummelen identifies the earliest known trigonometric precursors in ancient Egypt Babylon and Greece and he examines the revolutionary discoveries of Hipparchus the Greek astronomer believed to have been the first to make systematic use of trigonometry in the second century BC while studying the motions of the stars The book traces trigonometry's development into a full fledged mathematical discipline in India and Islam explores its applications to such areas as geography and seafaring navigation in the European Middle Ages and Renaissance and shows how trigonometry retained its ancient roots at the same time that it became an important part of the foundation of modern mathematics The Mathematics of the Heavens and the Earth looks at the controversies as well including disputes over whether Hipparchus was indeed the father of trigonometry whether Indian trigonometry is original or derived from the Greeks and the extent to which Western science is indebted to Islamic trigonometry and astronomy The book also features extended excerpts of translations of original texts and detailed yet accessible explanations of the mathematics in them No other book on trigonometry offers the historical breadth analytical depth and coverage of non Western mathematics that readers will find in The Mathematics of the Heavens and the Earth **The Doctrine of Triangles** Glen Van Brummelen, 2025-06-17 An interdisciplinary history of trigonometry from the mid sixteenth century to the early twentieth The Doctrine of Triangles offers an interdisciplinary history of trigonometry that spans four centuries starting in 1550 and concluding in the 1900s Glen Van Brummelen tells the story of trigonometry as it evolved from an instrument for understanding the heavens to a practical tool used in fields such as surveying and navigation In Europe China and America trigonometry aided and was itself transformed by concurrent mathematical revolutions as well as the rise of science and technology Following its uses in mid sixteenth century Europe as the foot of the ladder to the stars and the mathematical helpmate of astronomy trigonometry became a ubiquitous tool for modeling various phenomena including animal populations and sound waves In the late sixteenth century trigonometry

increasingly entered the physical world through the practical disciplines and its societal reach expanded with the invention of logarithms. Calculus shifted mathematical reasoning from geometric to algebraic patterns of thought and trigonometry's participation in this new mathematical analysis grew encouraging such innovations as complex numbers and non-Euclidean geometry. Meanwhile in China trigonometry was evolving rapidly too sometimes merging with indigenous forms of knowledge and with Western discoveries. In the nineteenth century trigonometry became even more integral to science and industry as a fundamental part of the science and engineering toolbox and a staple subject in high school classrooms. A masterful combination of scholarly rigor and compelling narrative, *The Doctrine of Triangles* brings trigonometry's rich historical past full circle into the modern era. [Redefining Geometrical Exactness](#) Henk J.M. Bos, 2012-12-06. In his *Geometry of 1637*, Descartes achieved a monumental innovation of mathematical techniques by introducing what is now called analytic geometry. Yet the key question of the book was foundational rather than technical: When are geometrical objects known with such clarity and distinctness as befits the exact science of geometry? Classically the answer was sought in procedures of geometrical construction in particular by ruler and compass, but the introduction of new algebraic techniques made these procedures insufficient. In this detailed study spanning essentially the period from the first printed edition of Pappus' *Collection* (1588 in Latin translation) and Descartes' death in 1650, Bos explores the current ideas about construction and geometrical exactness, noting that by the time Descartes entered the field, the incursion of algebraic techniques combined with an increasing uncertainty about the proper means of geometrical problem solving had produced a certain impasse. Hethen analyses how Descartes transformed geometry by a redefinition of exactness and by a demarcation of geometry's proper subject and procedures in such a way as to incorporate the use of algebraic methods without destroying the true nature of geometry. Although mathematicians later essentially discarded Descartes' methodological convictions, his influence was profound and pervasive. Bos' insistence on the foundational aspects of the *Geometry of 1637* provides new insights both in the genesis of Descartes' masterpiece and in its significance for the development of the conceptions of mathematical exactness.

[Piero Della Francesca](#) Judith Veronica Field, Piero, 2005-01-01. *Studie over de wiskundige kennis van de renaissance-schilder ca. 1416-1492 en over het belang van de exacte wetenschap in de betreffende kunstperiode*. [Methods for Euclidean Geometry](#) Owen Byer, Felix Lazebnik, Deirdre L. Smeltzer, 2010-12-31. Euclidean plane geometry is one of the oldest and most beautiful topics in mathematics. Instead of carefully building geometries from axiom sets, this book uses a wealth of methods to solve problems in Euclidean geometry. Many of these methods arose where existing techniques proved inadequate. In several cases, the new ideas used in solving specific problems later developed into independent areas of mathematics. This book is primarily a geometry textbook, but studying geometry in this way will also develop students' appreciation of the subject and of mathematics as a whole. For instance, despite the fact that the analytic method has been part of mathematics for four centuries, it is rarely a tool a student considers using when faced with a geometry problem.

Methods for Euclidean Geometry explores the application of a broad range of mathematical topics to the solution of Euclidean problems

A Source Book in Mathematics, 1200-1800 Dirk Jan Struik, 2014-07-14 These selected mathematical writings cover the years when the foundations were laid for the theory of numbers analytic geometry and the calculus Originally published in 1986 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

Trigonometric Delights Eli Maor, 2011-12-20 Trigonometry has always been the black sheep of mathematics It has a reputation as a dry and difficult subject a glorified form of geometry complicated by tedious computation In this book Eli Maor draws on his remarkable talents as a guide to the world of numbers to dispel that view Rejecting the usual arid descriptions of sine cosine and their trigonometric relatives he brings the subject to life in a compelling blend of history biography and mathematics He presents both a survey of the main elements of trigonometry and a unique account of its vital contribution to science and social development Woven together in a tapestry of entertaining stories scientific curiosities and educational insights the book more than lives up to the title

Trigonometric Delights Maor whose previous books have demystified the concept of infinity and the unusual number e begins by examining the proto trigonometry of the Egyptian pyramid builders He shows how Greek astronomers developed the first true trigonometry He traces the slow emergence of modern analytical trigonometry recounting its colorful origins in Renaissance Europe s quest for more accurate artillery more precise clocks and more pleasing musical instruments Along the way we see trigonometry at work in for example the struggle of the famous mapmaker Gerardus Mercator to represent the curved earth on a flat sheet of paper we see how M C Escher used geometric progressions in his art and we learn how the toy Spirograph uses epicycles and hypocycles Maor also sketches the lives of some of the intriguing figures who have shaped four thousand years of trigonometric history We meet for instance the Renaissance scholar Regiomontanus who is rumored to have been poisoned for insulting a colleague and Maria Agnesi an eighteenth century Italian genius who gave up mathematics to work with the poor but not before she investigated a special curve that due to mistranslation bears the unfortunate name the witch of Agnesi The book is richly illustrated including rare prints from the author s own collection

Trigonometric Delights will change forever our view of a once dreaded subject

Sourcebook in the Mathematics of Medieval Europe and North Africa Victor J. Katz, Menso Folkerts, Barnabas Hughes, Roi Wagner, J. Lennart Berggren, 2016-11-01 Medieval Europe was a meeting place for the Christian Jewish and Islamic civilizations and the fertile intellectual exchange of these cultures can be seen in the mathematical developments of the time This sourcebook presents original Latin Hebrew and Arabic sources of medieval mathematics and shows their cross cultural influences Most of the

Hebrew and Arabic sources appear here in translation for the first time Readers will discover key mathematical revelations foundational texts and sophisticated writings by Latin Hebrew and Arabic speaking mathematicians including Abner of Burgos s elegant arguments proving results on the conchoid a curve previously unknown in medieval Europe Levi ben Gershon s use of mathematical induction in combinatorial proofs Al Mu taman Ibn H d s extensive survey of mathematics which included proofs of Heron s Theorem and Ceva s Theorem and Muhy al D n al Maghrib s interesting proof of Euclid s parallel postulate The book includes a general introduction section introductions footnotes and references The Sourcebook in the Mathematics of Medieval Europe and North Africa will be indispensable to anyone seeking out the important historical sources of premodern mathematics **On triangles** Johannes Regiomontanus,1967 **Copernicus' Secret** Jack

Repcheck,2007-12-04 The surprising little known story of the scientific revolution that almost didn t happen how cleric and scientific genius Nicolaus Copernicus s work revolutionized astronomy and altered our understanding of our place in the world Nicolaus Copernicus gave the world perhaps the most important scientific insight of the modern age the theory that the earth and the other planets revolve around the sun He was also the first to proclaim that the earth rotates on its axis once every twenty four hours His theory was truly radical during his lifetime nearly everyone believed that a perfectly still earth rested in the middle of the cosmos where all the heavenly bodies revolved around it One of the transcendent geniuses of the early Renaissance Copernicus was also a flawed and conflicted person A cleric who lived during the tumultuous years of the early Reformation he may have been sympathetic to the teachings of the Lutherans Although he had taken a vow of celibacy he kept at least one mistress Supremely confident intellectually he hesitated to disseminate his work among other scholars It fact he kept his astronomical work a secret revealing it to only a few intimates and the manuscript containing his revolutionary theory which he refined for at least twenty years remained hidden among my things It is unlikely that Copernicus masterwork would ever have been published if not for a young mathematics professor named Georg Joachim Rheticus He had heard of Copernicus ideas and with his imagination on fire he journeyed hundreds of miles to a land where as a Lutheran he was forbidden to travel Rheticus meeting with Copernicus in a small cathedral town in northern Poland proved to be one of the most important encounters in history Copernicus Secret recreates the life and world of the scientific genius whose work revolutionized astronomy and tells the fascinating story behind the dawn of the scientific age

Routledge Revivals: Medieval Science, Technology and Medicine (2006) Thomas Glick,Steven J. Livesey,Faith Wallis,2017-07-05 First published in 2005 this encyclopedia demonstrates that the millennium from the fall of the Roman Empire to the Renaissance was a period of great intellectual and practical achievement and innovation In Europe the Islamic world South and East Asia and the Americas individuals built on earlier achievements introduced sometimes radical refinements and laid the foundations for modern development Medieval Science Technology and Medicine details the whole scope of scientific knowledge in the medieval period in more than 300 A to Z entries This comprehensive resource discusses

the research application of knowledge cultural and technology exchanges experimentation and achievements in the many disciplines related to science and technology It also looks at the relationship between medieval science and the traditions it supplanted Written by a select group of international scholars this reference work will be of great use to scholars students and general readers researching topics in many fields including medieval studies world history history of science history of technology history of medicine and cultural studies

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