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It took two millennia to prove the impossible; that is, to prove it is not possible to solve some famous Greek problems in the Greek way (using only straight edge

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The book, as the name suggests, is about the (brief) history of some famous problems in Euclidean Geometry, about the possibility of drawing geometric shapes using only compass and unmarked ruler. The problems and solutions are explained well, attractive, brief and enlightening. I guess it is accessible to a high school student and still a nice ...

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~~9780486242972: Famous Problems in Geometry and How to ...~~

This Dover edition, first published in 1982, is an unabridged and slightly corrected republication of the work originally published in 1969 by Van Nostrand Reinhold Company, NY., under the title Famous Problems of Mathematics: A History of Constructions with Straight Edge and Compass.

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Amateur puzzlists as well as students of mathematics and geometry will relish this rare opportunity to match wits with Archimedes, Euclid, Newton, Descartes, and other great mathematicians. Each chapter explores an individual type of geometric challenge, with commentary and practice problems, and reveals a milestone in the development of mathematics.

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These really are "Famous Problems from Geometry" and he does indeed explain how to solve them. The book has four major sections/chapters. He discusses in detail the three problems from antiquity (one section each): squaring a circle, doubling a cube, and trisecting an angle.

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Amateur puzzlists as well as students of mathematics and geometry will relish this rare opportunity to match wits with Archimedes, Euclid, Newton, Descartes, and other great mathematicians. Each chapter explores an individual type of geometric challenge, with commentary and practice problems, and reveals a milestone in the development of mathematics. Solutions.

"This short book, first published in 1897, addresses three geometry puzzles that have been passed down from ancient times. Written for high school students, this book aims to show a younger audience why math should matter and to make the problems found in

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math intriguing. Klein presents for his readers an investigation of the possibility or impossibility of finding solutions for the following problems in light of mathematics available to him: duplication of the cube trisection of an angle quadrature of the circle

Mathematicians and students of the history of math will find this an intriguing work. German mathematician FELIX KLEIN (1849 1925), a great teacher and scientific thinker, significantly advanced the field of mathematical physics and made a number of profound discoveries in the field of geometry. His published works include Elementary Mathematics from an Advanced Standpoint: Arithmetic, Algebra, Analysis and Elementary Mathematics from an Advanced Standpoint: Geometry."

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.

Problems that beset Archimedes, Newton, Euler, Cauchy, Gauss, Monge, Steiner, and other great mathematical minds. Features squaring the circle,  $\pi$ , and similar problems. No advanced math is required. Includes 100 problems with proofs.

This book is the result of a 25-year-old project and



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comprises a collection of more than 500 attractive open problems in the field. The largely self-contained chapters provide a broad overview of discrete geometry, along with historical details and the most important partial results related to these problems. This book is intended as a source book for both professional mathematicians and graduate students who love beautiful mathematical questions, are willing to spend sleepless nights thinking about them, and who would like to get involved in mathematical research.

Victor Klee and Stan Wagon discuss some of the unsolved problems in number theory and geometry, many of which can be understood by readers with a very modest mathematical background. The presentation is organized around 24 central problems, many of which are accompanied by other, related problems. The authors place each problem in its historical and mathematical context, and the discussion is at the level of undergraduate mathematics. Each problem section is presented in two parts. The first gives an elementary overview discussing the history and both the solved and unsolved variants of the problem. The second part contains more details, including a few proofs of related results, a wider and deeper survey of what is known about the problem and its relatives, and a large collection of references. Both parts contain exercises, with solutions. The book is aimed at both teachers and students of mathematics who want to know more about famous unsolved problems.

A hilarious reeducation in mathematics-full of joy,

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jokes, and stick figures-that sheds light on the countless practical and wonderful ways that math structures and shapes our world. In *Math With Bad Drawings*, Ben Orlin reveals to us what math actually is; its myriad uses, its strange symbols, and the wild leaps of logic and faith that define the usually impenetrable work of the mathematician. Truth and knowledge come in multiple forms: colorful drawings, encouraging jokes, and the stories and insights of an empathetic teacher who believes that math should belong to everyone. Orlin shows us how to think like a mathematician by teaching us a brand-new game of tic-tac-toe, how to understand an economic crises by rolling a pair of dice, and the mathematical headache that ensues when attempting to build a spherical Death Star. Every discussion in the book is illustrated with Orlin's trademark "bad drawings," which convey his message and insights with perfect pitch and clarity. With 24 chapters covering topics from the electoral college to human genetics to the reasons not to trust statistics, *Math with Bad Drawings* is a life-changing book for the math-estranged and math-enamored alike.

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