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Discovering Geometry  
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*Discovering  
Geometry Teachers  
Edition*

**Discovering Geometry An  
Investigative Approach**

**Give geometry a go with students in grades 7 and up using Helping Students Understand Geometry.**

**This 128-page book includes step-by-step instructions with examples, practice problems using the concepts, real-life applications, a list of symbols and terms, tips, and answer keys. The book supports NCTM standards and includes chapters on topics such as coordinates, angles, patterns and reasoning, triangles, polygons and quadrilaterals, and circles.**

**An Inductive Approach. - -**

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**Teacher's guide and answer key. -  
1997. - v, 390 s. : ill**

**Geometry for Enjoyment and  
Challenge**

**Pirate Math**

**Geometry**

**Exploring Geometry, Second  
Edition**

**An Investigative Approach.**

**Solutions manual**

*This text promotes student engagement with the beautiful ideas of geometry. Every major concept is introduced in its historical context and connects the idea with real-life. A system of experimentation followed by rigorous explanation and proof is central. Exploratory projects play an integral role in this text.*

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*Students develop a better sense of how to prove a result and visualize connections between statements, making these connections real. They develop the intuition needed to conjecture a theorem and devise a proof of what they have observed.*

*Contains at least three quizzes for each chapter from the first 16 chapters taken from Discovering Geometry, second edition.*

*Midyear and final exams for each of the five year courses are outlined in Discovering Geometry Teacher's Guide and Answer Key.*

*Experiencing Geometry  
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*An Inductive Approach.*

*Teacher's resource book*

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Discovering Geometry

The Big Fat Notebooks go to high school! A

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lively, fully illustrated guide to acing high school geometry, with clear notes on the big ideas, helpful tips for memorizing processes and remembering definitions, and lively doodles that make math easier to understand (and fun to study).

Discovering Geometry is designed so that you can be actively engaged as you learn geometry. In this book you learn by doing. You will learn to use the tools of

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geometry and to perform geometry investigations with them. Many of the investigations are carried out in small cooperative groups in which you jointly plan and find solutions with other students. Your investigations will lead you to the discovery of geometry properties. In addition, you will gradually learn about proof, a form of reasoning that will help you explain why your discoveries are true, through developing proof

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group activities and  
exercises. - p. xiv.

Teacher's Material

Euclidean and Non-

Euclidean with History

Patterns of Interaction

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An Inductive Approach :

Teacher's Guide and

Answer Key

An Inductive Approach :

Teacher's Support

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Provides over 300 useful lists for  
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Build ye thinking skills, learn ye



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coordinates, and a smarter pirate you will be! Michael Serra combines the challenge of mathematics with the fun adventure of pirates and buried treasure. Play the Buried Treasure game using a rectangle coordinate plane, a polar coordinate system, a spherical surface, and with three-dimensional areas. Use the chapter on cryptography to help solve hidden messages to uncover the pirate loot. Take a journey to sun-drenched tropical islands in search of pirate booty. With a map in your hand, follow clues and solve puzzles, developing your mathematical reasoning skills along the way. Argh, what glorious adventures, the thrill of using math

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to find pirate treasure!

An Investigative Approach :  
Teacher's Edition

Geometry Common Core

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Tools for a Changing World

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An Inductive Approach. - -

Teacher's resource book. - 1997. -

xiv, 281 s. : ill. + 2 disketter (i  
lomme)

**In this book the  
classical Greek  
construction problems  
are explored in a  
didactical, enquiry  
based fashion using  
Interactive Geometry  
Software (IGS) . The book**

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traces the history of these problems, stating them in modern terminology. By focusing on constructions and the use of IGS the reader is confronted with the same problems that ancient mathematicians once faced. The reader can step into the footsteps of Euclid, Viète and Cusanus amongst others and then by experimenting and discovering geometric relationships far exceed their accomplishments. Exploring these problems

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with the neusis-method lets him discover a class of interesting curves. By experimenting he will gain a deeper understanding of how mathematics is created. More than 100 exercises guide him through methods which were developed to try and solve the problems. The exercises are at the level of undergraduate students and only require knowledge of elementary Euclidean geometry and pre-calculus algebra. It is

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especially well-suited for those students who are thinking of becoming a mathematics teacher and for mathematics teachers.

Through a unique approach combining art and mathematics, Perspective and Projective Geometry introduces students to the ways that projective geometry applies to perspective art.

Geometry, like mathematics as a whole, offers a useful and meaningful lens for

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understanding the visual world. Exploring pencil-and-paper drawings, photographs, Renaissance paintings, and GeoGebra constructions, this textbook equips students with the geometric tools for projecting a three-dimensional scene onto two dimensions.

Organized as a series of exercise modules, this book teaches students through hands-on inquiry and participation. Each lesson begins with a visual puzzle that can be investigated through

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geometry, followed by exercises that reinforce new concepts and hone students' analytical abilities. An electronic instructor's manual available to teachers contains sample syllabi and advice, including suggestions for pacing and grading rubrics for art projects. Drawing vital interdisciplinary connections between art and mathematics, Perspective and Projective Geometry is ideally suited for undergraduate students

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interested in mathematics or computer graphics, as well as for mathematically inclined students of architecture or art. · Features computer-based GeoGebra modules and hands-on exercises · Contains ample visual examples, math and art puzzles, and proofs with real-world applications · Suitable for college students majoring in mathematics, computer science, and art · Electronic instructor's manual (available only



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(to teachers)

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Greek Construction  
Problems with  
Interactive Geometry  
Software

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A History of the World  
Discovering Geometry -  
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Parentology

Student's Edition

Geometry Designed for  
Understanding Jacobs'  
Geometry utilizes a clear,  
conversational, engaging  
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application of Geometry through

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practical, real-life application! Harold Jacobs guides your student through Geometry, enabling them to discover the concepts & their applications for themselves in order to develop an understanding of the principles that goes beyond simple memorization to pass a test. Jacobs' unique instructional approach to math means your student: Develops a true understanding of geometric principles Interacts with concepts using real-world examples, ensuring they'll know exactly how to apply the material they are learning to real-life and other academic subjects Is prepared to take their understanding of

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Geometry Student Text Includes:

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Answers to select exercises in the back of the text  
Flexible based on focus & intensity of course  
Set I exercises review ideas & concepts from previous lessons to provide ongoing application of material.  
Set II exercises allow student to apply material from the new lesson  
Set III exercises provided additional, more challenging problems

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This book provides an inquiry-based introduction to advanced Euclidean geometry. It utilizes dynamic geometry software, specifically GeoGebra, to explore the statements and proofs of many of the most interesting theorems in the subject. Topics covered include triangle centers, inscribed, circumscribed, and escribed circles, medial and orthic triangles, the nine-point circle, duality, and the theorems of Ceva and Menelaus, as well as numerous applications of those theorems. The final chapter explores constructions in the Poincare disk model for hyperbolic geometry. The book can be used either as a computer

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laboratory manual to supplement an undergraduate course in geometry or as a stand-alone introduction to advanced topics in Euclidean geometry. The text consists almost entirely of exercises (with hints) that guide students as they discover the geometric relationships for themselves. First the ideas are explored at the computer and then those ideas are assembled into a proof of the result under investigation. The goals are for the reader to experience the joy of discovering geometric relationships, to develop a deeper understanding of geometry, and to encourage an appreciation for the beauty of

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Euclidean geometry.

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Geometry, Grades 7 - 8

Perspective and Projective

Geometry

An Investigative Approach

**An award-winning scientist offers**

**his unorthodox approach to**

**childrearing: “Parentology is**

**brilliant, jaw-droppingly funny,**

**and full of wisdom...bound to**

**change your thinking about**

**parenting and its conventions”**



**(Amy Chua, author of *Battle Hymn of the Tiger Mother*). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In *Parentology*, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers**

**improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley’s sassy kids show him the limits of his profession. Parentology**

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*the possible shapes of the physical universe. The authors provide extensive information on historical strands of geometry, straightness on cylinders and cones and hyperbolic planes, triangles and congruencies, area and holonomy, parallel transport, SSS, ASS, SAA, and AAA, parallel postulates, isometries and patterns, dissection theory, square roots, pythagoras and similar triangles, projections of a sphere onto a plane, inversions in circles, projections (models) of hyperbolic planes, trigonometry and duality, 3-spheres and*

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*hyperbolic 3-spaces and polyhedra. For mathematics educators and other who need to understand the meaning of geometry.*

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*Time Indian, which is based on the author's own experiences, coupled with poignant drawings by Ellen Forney that reflect the character's art, chronicles the contemporary adolescence of one Native American boy as he attempts to break away from the life he was destined to live. With a forward by Markus Zusak, interviews with Sherman Alexie and Ellen Forney, and four-color interior art throughout, this edition is perfect for fans and collectors alike.*

*Discovering Our Past  
More Projects and Explorations  
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