



Discovering Geometry
Fifth Edition

By Michael Serra

Grades 8–10

Discovering Geometry

Build your students' reasoning and proof abilities with this research-based program

***Discovering Geometry* helps students internalize geometric properties as they develop their intuition with physical models and build their inductive and deductive reasoning ability by reporting and justifying their conclusions.**

With *Discovering Geometry*, you will meet your students where they are and guide them all to the high level of understanding required by today's rigorous standards. Your students will develop the ability to reason, justify, and prove geometric properties by performing constructions, measuring figures, relating patterns and properties, and discussing their findings. You'll find many opportunities both to support students whose progress is slower and to challenge more advanced students.

Michael Serra's extensive classroom experience helped him shape a new approach to teaching geometry. Now in its fifth edition, *Discovering Geometry* has been completely revised to provide the comprehensive coverage of transformational geometry with a focus on both synthetic and analytic geometry now required. The instructional design of *Discovering Geometry* has proven effective in countless classrooms across the country. The book's combination of research-based pedagogy and rigorous content will help you cultivate a classroom of self-motivated, independent thinkers who will succeed on today's assessments and in advanced mathematics courses.

Comprehensive Teaching Resources

Discovering Geometry includes all of the teaching resources necessary to enrich learning and to make the teaching experience more rewarding. In addition to a comprehensive, wraparound-style Teacher's Edition, you'll receive a spectrum of evaluation and assessment tools that let all students demonstrate what they have learned.

**FREE
TRIAL**

To get a preview of the new edition of
Discovering Geometry, contact your curriculum sales consultant
at 1-800-542-6657

Discovering Geometry

Available to you and your students at no cost upon adoption, the online version of *Discovering Geometry* contains all the content of your printed textbooks with additional features to enrich each student's learning experience.

- Lessons include downloadable [More Practice Your Skills Problems](#).
- Many lessons link to downloadable graphing calculator notes or to dynamic explorations.
- The interactive table of contents and other features make navigation easy.
- With the interactive glossary, clicking on a term reveals its definition.
- Links give students access to answers to selected exercises.

Additional *Discovering Geometry* resources are available online. To obtain print versions of these materials, contact your Kendall Hunt curriculum sales consultant.

Discovering Mathematics: A Guide for Teachers

This comprehensive overview includes tips on cooperative learning groups, investigations, and assessments and will help you plan and implement an investigative curriculum.

Tracing Proof in Discovering Geometry

This resource explains the research that supports the approach of *Discovering Geometry* and shows how the book carefully develops reasoning skills.

Solutions Manual

Answers with worked-out solutions to exercises, chapter reviews, mixed reviews, Improving Your Skills, and Take Another Look are more complete than the annotations in the Teacher's Edition or the selected answers in the Student Edition.

Teaching and Worksheet Masters

Blackline masters of select student text, enlarged figures, and geometry materials can be used as student handouts or overhead transparencies.

Assessment Resources

Quizzes, tests, and exams with answers and constructive assessments with grading rubrics.

Practice Your Skills Student Workbook and Practice Your Skills with Answers

Blackline masters of additional practice problems and answers can be used as student handouts or overhead transparencies.

More Projects and Explorations

This volume includes activities collected from *Discovering Geometry* classrooms across the country, including Teacher's Notes that suggest how to use the activities and provide answers or possible outcomes.

Condensed Lessons: A Tool for Parents and Tutors

Direct-teaching lessons enable students who miss class to catch up.

Condensed Lessons in Spanish Lecciones condensadas en español

Direct-teaching lessons help Spanish-speaking students who miss class or need a better understanding of the content of a lesson.

Investigation Worksheets

This downloadable resource provides a worksheet for every investigation to make your lesson planning easy. The worksheets include all needed diagrams and information, as well as space for student work.

Discovering Geometry with The Geometer's Sketchpad®

Activities and pre-made sketches that are adapted from the student text use The Geometer's Sketchpad to replace investigations or supplement lessons helping you integrate Dynamic Geometry® Software into your teaching.

A Guide for Parents

Available in English and Spanish, this guide includes tips for working with students, chapter summary exercises, and review exercises with complete solutions.

Cohesive Assessment System

This tool is accessible from any Web browser and can be used to manage assessment content, create and assign tests through a secure online test center, provide immediate feedback to students, and analyze data about student performance.

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