



# Elementary Geometry For College Students

*Daniel C. Alexander, GERALYN M. KOEBERLEIN*

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Building on the success of its first three editions, the Fourth Edition of this market-leading text covers the important principles and real-world applications of plane geometry, with additional chapters on solid geometry, analytic geometry, and an introduction to trigonometry. Strongly influenced by both NCTM and AMATYC standards, the text takes an inductive approach that includes integrated activities and tools to promote hands-on application and discovery.

- *New!* Tables provide visual connections between figures and concepts and help students better assess their level of mastery and test readiness.
- *New!* Chapter Tests have been added to the end of every chapter.
- *New!* Proofs have been varied to include written and visual proofs, as well as comparisons, to support students with different learning styles.
- *New!* Exercise sets in the Student Study Guide, with cross-references to the text, offer additional practice and review.
- *New!* Technology-related margin features encourage the use of the Geometer's Sketchpad, graphing calculators, and further explorations.
- *New!* Coverage now includes Section 2.6, *Symmetry and Transformations*.
- *New!* Technology Package includes the HM ClassPrep CD with computerized test bank (powered by Diploma).
- *Updated!* The number of Exercises and Explorations has been increased.
- Highly visual approach begins with the presentation of an idea, followed by the examination and development of a theory, verification of the theory through deduction, and finally, application of the principles to the real world.
- Discovery features reinforce the text's inductive approach: activities integrated throughout enable students to discover geometry concepts on their own, and section tools provide with hands-on application of geometric concepts
- Applications reinforce the connection of geometry to the real world: high-interest *Chapter Openers* introduce the principal notion of the chapter and relate to the real world and *A Perspective On...* sections conclude each chapter, providing sketches that are interesting, sometimes historical, and always informative.
- Summaries of constructions, postulates, and theorems are provided, and an easy-to-navigate numbering system for postulates and theorems provides a user-friendly structure. In response to user feedback, paragraph proofs feature more prominently in this edition.
- Comprehensive appendices include *Algebra Review and An Introduction to Logic*. A glossary of terms, a summary of applications in the text, and selected answers are also provided in the back of the text.

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