



Geometry: Theorems and Constructions

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Pearson, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (NOTE:Each chapter concludes with a Chapter Summary.) 0. Notation and Conventions. Notation. Constructions. 1. Congruent Triangles. The Three Theorems. Proofs of the Three Theorems. Applications to Constructions. Applications to Inequalities. 2. Parallel Lines. Existence and Uniqueness. Applications. Distance between Parallel Lines. 3. Area. Area of Rectangles and Triangles. The Pythagorean Theorem. Area of Triangles. Cutting and Pasting. 4. Similar Triangles. The Three Theorems. Applications to Constructions. 5. Circles. Circles and Tangents. Arcs and Angles. Applications to Constructions. Application to Queen Dido's Problem. More on Arcs and Angles. 6. Regular Polygons. Constructibility. In the Footsteps of Archimedes. 7. Triangles and Circles. Circumcircles. A Theorem of Brahmagupta. Inscribed Circles. An Old Chestnut (the Steiner-Lehmus Theorem.) Enscribed Circles. Euler's Theorem. 8. Medians. Center of Gravity. Length Formulas. Complementary and Anticomplementary Triangles. 9. Altitudes. The Orthocenter. Fagnano's Problem. The Euler Line. The Nine-Point Circle. 10. Miscellaneous Results about Triangles. Ceva's Theorem. Applications of Ceva's Theorem. The Fermat Point. Properties of the Fermat Point. 11. Constructions with Indirect Elements. Constructions with Indirect Elements. 12. Solid Geometry. Lines and Planes in Space. Dihedral Angles. Projections. Trihedral Angles. 13. Combinatorial Theorems...



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