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By Kay, David

Pearson, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (* Indicates optional section.) Preface. To the Student. 1. Exploring Geometry. Discovery in Geometry. Variations on Two Familiar Geometric Themes. Discovery via the Computer. Steiner's Theorem. 2. Foundations of Geometry I: Points, Lines, Segments, and Angles. *An Introduction to Axiomatics and Proof. *The Role of Examples and Models. Incidence Axioms for Geometry. Distance, Ruler Postulate, Segments, Rays, and Angles. Angle Measure and the Protractor Postulate. Plane Separation, Interior of Angles, Crossbar Theorem. Chapter Summary. 3. Foundations of Geometry II: Triangles, Quadrilaterals, and Circles. Triangles, Congruence Relations, SAS Hypothesis. *Taxicab Geometry: Geometry Without SAS Congruence. SAS, ASA, SSS Congruence, and Perpendicular Bisectors. Exterior Angle Inequality. The Inequality Theorems. Additional Congruence Criteria. Quadrilaterals. Circles. Chapter Summary. 4. Euclidean Geometry: Trigonometry, Coordinates, and Vectors. Euclidean Parallelism, Existence of Rectangles. Parallelograms and Trapezoids: Parallel Projection. Similar Triangles, Pythagorean Theorem, Trigonometry. Regular Polygons and Tiling. *Euclid's Concept of Area and Volume. Coordinate Geometry and Vectors. *Some Modern Geometry of the Triangle. Chapter Summary. 5. Transformations in Geometry. Euclid's Superposition Proof and Plan Transformation. Reflections: Building Blocks for Isometries. Translations, Rotations and Other Isometries. Other Linear Transformations. Coordinate Characterization. *Using...

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