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Geometry Connections: Mathematics for Middle School Teachers

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Pearson, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: CONTENTS Note: All chapters end with a Chapter Review. Preface List of Numbered Figures List of Classroom Connections List of Classroom Discussions Chapter 1: Euclid's Geometry Euclid's postulates and common notions Using logic Notation and measurement Polygons and solids Measuring the earth's radius Chapter 2: Congruent Figures, Areas and Volumes Congruent triangles Parallel lines Quadrilaterals Areas of figures Circles Volumes and surface areas Chapter 3: Similarity Similar Polygons Applications of similar triangles Pythagorean Theorem Area and perimeter of similar figures Similarity for more general figures Chapter 4. Rigid Motions and Symmetry Reflections over lines and orientation Translations, rotations, and glide-reflections Symmetries Isometries in space Chapter 5. Vectors and Transformations Vectors as oriented line segments Representing vectors with coordinates Matrices Transformations using matrices Isometries and orthogonal matrices Isometries and complex numbers Chapter 6. Three Other Geometries Taxicab Geometry Spherical Geometry Hyperbolic Geometry Appendix I Geometer's Sketchpad Appendix II Euclid's Assumptions Appendix III Selected Geometry Formulas Glossary Answers and hints for odd exercises Index.



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