801 Geometry

Chapter 1 Essentials of Geometry

1.1 Identify Points, Lines, and Planes

1.2 Use Segments and Congruence

1.3 Use Midpoint and Distance Formulas

1.4 Measure and Classify Angles.

1.5 Describe Angle Pair Relationships

1.6 Classify Polygons

1.7 Find Perimeter, Circumference, and Area

Chapter 2 Reasoning and Proof

2.1 Use Inductive Reasoning

2.2 Analyze Conditional Statements

2.3 Apply Deductive Reasoning

2.4 Use Postulates and Diagrams

2.5 Reason Using Properties from Algebra

2.6 Prove Statements about Segments and Angles

2.7 Prove Angie Pair Relationships

Chapter 3 Parallel and Perpendicular Lines

3.1 Identify Pairs of Lines and Angles

3.2 Use Parallel Lines and Transversals

3.3 Prove Lines are Parallel

Chapter 4 Congruent Triangles

Chapter 5 Relationships within Triangles

Chapter 6 Similarity

6.3 Use similar Polygons

6.4 Prove Triangles Similar by AA

6.5 Prove Triangles Similar by SSS and SAS

6.6 Use Proportionality Theorems

6.7 Perform Similarity Transformations

Chapter 7 Right Triangles and Trigonometry

7.1 Apply the Pythagorean Theorem

7.2 Use the Converse of the Pythagorean Theorem

7.3 Use Similar Right Triangles

7.4 Special Right Triangles

7.5 Apply the Tangent Ratio

7.6 Apply the Sine and Cosine Ratios

7.7 Solve Right Triangles

Chapter 8 Quadrilaterals

8.1 Find Angle Measures in Polygons

8.2 Use Properties of Parallelograms

8.3 Show that a Quadrilateral is a Parallelogram

8.4 Properties of Rhombuses, Rectangles, and Squares

8.5 Use Properties of Trapezoids and Kites

8.6 Identify Special Quadrilaterals

Chapter 9 Properties of Transformations

9.1 Translate Figures and Use Vectors

Chapter 10 Properties of Circles

Chapter 11 Measuring Length and Area

Chapter 12 Surface Area and Volume of Solids