Geometry Regents: Units/Topics List

Can you identify the topic/lesson for each regents exam question?

UNIT 1: ANGLE RELATIONSHIPS

1-1: Basic Geometric Terms
1-2: Angle Relationships
1-3: Parallel Lines cut by a Transversal
1-4: Algebraic Parallel Lines cut by a Transversal
1-5: Parts and Types of Triangles
1-6: Exterior Angle Theorem
1-7: Attributes of Polygons

UNIT 2: TRANSFORMATION AND CONGRUENCE

2-1: Intro. to Transformations
2-2: Translations of Coordinate Plane
2-3: Rotations on the Coordinate Plane
2-4: Reflections on the Coordinate Plane
2-5: Intro. to Dilations
2-6: Compositions of Transformations
2-7: Compositions of Transformations with Dilations

UNIT 3: TRIANGLES AND SIMILARITY

3-1: Side Splitter and Dilation Theorem
3-1: Side Splitter (Day 2)
3-2: Ratios between Figures and Within Figures
3-3: Geometric Mean
3-4: Pythagorean Theorem
3-5: Intro. To Trigonometry
3-6: Using Trig Ratios to find Missing Side Lengths
3-7: Using Trig Ratios to find Missing Angles
3-8: Application of Trig (Missing Angles and Sides)
3-9: Applying Tangents
3-10: Law of Sines

UNIT 4: CIRCLES

4-1: Writing Equations of Circles
4-1: (Day 2): Equations of Circles
4-2: Arcs, Central and Inscribed Angles in Circles
4-3: More Angle Relationships in Circles
4-4: Segments in Circles
4-5: Arc Length
4-6: Area of a Sector

UNIT 5: 2D and 3D FIGURES

5-1: Area of Composite Figures
5-2: Definitions and Cross Sections of 3D Figures
5-3: Volumes of Prisms and Cylinders
5-4: Volumes of Pyramids and Cones
5-5: Volumes of Spheres and Hemispheres
5-6: Density and Volume
5-7: Population Density

UNIT 6: LINES

6-1: Distance Formula
6-2: Midpoint
6-3: Partition of a Line Segment
6-4: Writing Equations of Lines
6-5: Parallel Lines
6-6: Perpendicular Lines
6-7: Properties of Dilations and Equations of Lines

UNIT 7: QUADRILATERALS and COORDINATE GEOMTERY PROOFS

7-1: Properties of Parallelogram Diagrams
7-2: Attributes of Special Quadrilaterals
7-3: Coordinate Geometry Proofs (Quadrilaterals)
7-3 (Day 2): Coordinate Geometry Proofs (Triangles)

UNIT 8: CONSTRUCTIONS

Packet I: Basic Constructions
Packet II: Advanced Constructions
Packet III: Regents Exam Questions

UNIT 9: FORMULA GEOMETRIC PROOFS

9-1: Introduction to Geometric Proofs
9-2: Basic Fundamentals of Geometric Proofs
9-3: Triangle Congruence
9-4: Triangle Congruency Proofs
9-5: Quadrilateral Geometric Proofs
9-6: CPCTC Geometric Proofs