Geometry and Trigonometry

1. Basic Concepts of Geometry
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   1.2 Geometrical Shapes
   1.3 Distance Formula
   1.4 Mid-point Formula
   1.5 Types of Angles and Measuring Angles
   1.6 Types of Angles and Angle Pairs
   1.7 Transversal and Angle Pairs
   1.8 Parallel lines and Special Angle Pairs
   1.9 Slope of a Line

2. Reasoning and Formal Proofs
   2.1 Logical Reasoning: A foundation for geometric proofs
   2.2 Logical Statements
   2.3 Valid Vs. Invalid Arguments
   2.4 Euclidean Geometry-A Mathematical System

3. Triangles
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   3.2 Classification of Triangles
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   3.4 Inequalities in a Triangle

4. Congruence of Triangles
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   4.2 Criteria for Congruence of Triangles
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5. Similarity
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   5.2 Basic Proportionality Theorem
   5.3 Criteria/Conditions for Similarity
   5.4 Areas of Similar Triangles

6. Right Triangles
   6.1 The Pythagoras Theorem
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   7.4 Rectangles, Squares and Rhombi
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