

Topics List Intended for IDEA MATH Geometry

Session 1

- Basic Term of Geometry (Points, Lines, Planes, Segments, Rays, Distance, Angles)
- Parallel Lines
- Angles of a Triangle
- Angles of a Polygon
- Congruent Triangles
- Some Theorems Based on Congruent Triangles
- Medians, Altitudes, Angle Bisectors, and Perpendicular Bisectors
- If-Then Statements
- Parallelograms and Trapezoids
- Geometry Inequalities
- Similarity I

Session 2

- Similarity II
 - Proportional Lengths
 - The Pythagorean Theorem
 - Right Triangles
 - Trigonometry
 - Tangents, Arcs, and Chords
 - Angles Formed by Chords, Secants, and Tangents
 - Lengths of Chords, Secant Segments, and Tangent Segments
 - Areas of Squares, Rectangles, Parallelograms, and Triangles
 - Areas of Trapezoids and Right Polygons
 - Circumference and Area of a Circle
 - Area and Volume of Prisms and Pyramids
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