

Geometry

POINTS, LINES, AND PLANES

POINTS
A point is a location in space that has no dimensions. It is represented by a dot and a capital letter.

LINE
A line is a straight path that extends infinitely in both directions. It is represented by a line with arrows at both ends and labeled with a lowercase letter.

RAY
A ray is a part of a line that starts at a point and extends infinitely in one direction. It is represented by a line with an arrow at one end and a capital letter at the other.

PLANE
A plane is a flat surface that extends infinitely in all directions. It is represented by a rectangle with dashed lines to show it continues.

CONGRUENT
Two figures are congruent if they have the same shape and size. They are represented by the symbol \cong .

ADJACENT ANGLES
Two angles are adjacent if they share a common vertex and a common side, but do not overlap.

VERTICAL ANGLES
Two angles are vertical if they are opposite each other at a vertex. They are always congruent.

COMPLEMENTARY ANGLES
Two angles are complementary if their sum is 90° .

SUPPLEMENTARY ANGLES
Two angles are supplementary if their sum is 180° .

PARALLEL LINES
Two lines are parallel if they never intersect. They are represented by two lines with arrows and the symbol \parallel .

PERPENDICULAR LINES
Two lines are perpendicular if they intersect at a right angle. They are represented by two lines with arrows and the symbol \perp .

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