



GEOMETRY - Part 1

GEOMETRIC DEFINITIONS

Point - A location in space that has no size, shape, or dimension. It is represented by a dot and labeled with a capital letter.

Line - 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 part of a line that starts at a point and extends infinitely in one direction. It is represented by a line with a dot at one end and an arrow at the other, and labeled with a lowercase letter.

Line Segment - A part of a line that has two endpoints. It is represented by a line with dots at both ends and labeled with a lowercase letter.

Plane - A flat surface that extends infinitely in all directions. It is represented by a parallelogram with arrows on all four sides and labeled with a lowercase letter.

GEOMETRIC FORMULAS

Area of a Rectangle: $A = l \times w$

Area of a Square: $A = s^2$

Area of a Triangle: $A = \frac{1}{2} \times b \times h$

Area of a Circle: $A = \pi r^2$

Area of a Parallelogram: $A = b \times h$

Area of a Trapezoid: $A = \frac{1}{2} \times (b_1 + b_2) \times h$

Area of a Composite Figure: Break the figure into simpler shapes, find the area of each, and add them together.

Volume of a Rectangular Prism: $V = l \times w \times h$

Volume of a Cylinder: $V = \pi r^2 \times h$

Volume of a Cone: $V = \frac{1}{3} \times \pi r^2 \times h$

Volume of a Sphere: $V = \frac{4}{3} \times \pi r^3$

DESCRIPTIONS OF UNDEFINED TERMS

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Line of Symmetry - A line that divides a shape into two congruent halves that are mirror images of each other.

Point of Symmetry - A point in a shape such that a 180-degree rotation around that point maps the shape onto itself.

Translation - A transformation that moves a shape in a straight line without rotating or reflecting it.

Reflection - A transformation that flips a shape across a line of symmetry.

Rotation - A transformation that turns a shape around a fixed point.

DEFINITIONS OF UNDEFINED TERMS

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DEFINED TERMS

Acute Angle - An angle that is less than 90 degrees.

Obtuse Angle - An angle that is greater than 90 degrees.

Right Angle - An angle that is exactly 90 degrees.

Complementary Angles - Two angles that add up to 90 degrees.

Supplementary Angles - Two angles that add up to 180 degrees.

Vertical Angles - Two angles that are opposite each other when two lines intersect.

Adjacent Angles - Two angles that share a common vertex and a common side.

Parallel Lines - Two lines that never intersect, no matter how far they are extended.

Perpendicular Lines - Two lines that intersect at a right angle.

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George Omura



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