



GEOMETRY - Part 1

GEOMETRIC DEFINITIONS

Point: A point is a location in space that has no size, shape, or dimension. It is represented by a single dot and labeled with 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 fixed point (called the endpoint) and extends infinitely in one direction. It is represented by a line with an arrow at one end and a solid dot at the other, and labeled with a lowercase letter.

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

Plane: A plane is a flat surface that extends infinitely in all directions. It is represented by a parallelogram with dashed lines to indicate hidden parts and labeled with a capital 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: $A = \pi r^2$

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

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

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

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

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

Area of a Rhombus: $A = d_1 \times d_2 \div 2$

Area of a Circle Sector: $A = \frac{\theta}{360} \times \pi r^2$

Area of a Circle Segment: $A = \frac{\theta}{360} \times \pi r^2 - \frac{1}{2} r^2 \sin \theta$

Area of a Circle Annulus: $A = \pi (R^2 - r^2)$

Area of a Circle Ring: $A = \pi (R^2 - r^2)$

Area of a Circle Sector: $A = \frac{\theta}{360} \times \pi r^2$

Area of a Circle Segment: $A = \frac{\theta}{360} \times \pi r^2 - \frac{1}{2} r^2 \sin \theta$

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Area of a Circle Ring: $A = \pi (R^2 - r^2)$

DESCRIPTIONS OF UNDEFINED TERMS

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Plane: A plane is a flat surface that extends infinitely in all directions. It is represented by a parallelogram with dashed lines to indicate hidden parts and labeled with a capital letter.

Space: Space is the three-dimensional region that contains all objects. It is represented by a rectangular prism with dashed lines to indicate hidden parts and labeled with a capital letter.

1. A plane is a flat surface that extends infinitely in all directions.

2. A line is a straight path that extends infinitely in both directions.

3. A ray is a part of a line that starts at a fixed point (called the endpoint) and extends infinitely in one direction.

4. A line segment is a part of a line that has two endpoints.

5. A plane is a flat surface that extends infinitely in all directions.

6. A line is a straight path that extends infinitely in both directions.

7. A ray is a part of a line that starts at a fixed point (called the endpoint) and extends infinitely in one direction.

8. A line segment is a part of a line that has two endpoints.

DEFINED TERMS

Acute Angle: An acute angle is an angle that measures less than 90 degrees.

Obtuse Angle: An obtuse angle is an angle that measures more than 90 degrees but less than 180 degrees.

Right Angle: A right angle is an angle that measures exactly 90 degrees.

Supplementary Angles: Two angles are supplementary if their measures add up to 180 degrees.

Complementary Angles: Two angles are complementary if their measures add up to 90 degrees.

Vertical Angles: Vertical angles are two angles that are opposite each other at a vertex and are always congruent.

Adjacent Angles: Adjacent angles are two angles that share a common vertex and a common side, but do not overlap.

Parallel Lines: Parallel lines are two lines in a plane that never intersect, no matter how far they are extended.

Perpendicular Lines: Perpendicular lines are two lines that intersect at a right angle (90 degrees).

Skew Lines: Skew lines are two lines that do not intersect and are not in the same plane.

Transversal: A transversal is a line that intersects two or more other lines.

Corresponding Angles: Corresponding angles are two angles that are in the same relative position at each intersection of a transversal and two parallel lines.

Alternate Angles: Alternate angles are two angles that are on opposite sides of a transversal and between two parallel lines.

Consecutive Angles: Consecutive angles are two angles that are on the same side of a transversal and between two parallel lines.

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web mar 22 2023 the correct answer is magnetic field lines because these lines represent the direction and strength of the magnetic field around a magnet they show the path that a magnetic object would take if placed in the field with the lines closer together indicating a