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Quick Study ACADEMIC

GEOMETRY - Part 1

segments • lines • planes • geometric formulas

GEOMETRY HISTORY

Geometry means earth measurement. Early peoples used their knowledge of geometry for land trade, temples, pyramids, and engineering. The more formal study of geometry today is based on deductive logical reasoning and relationships, called the axiomatic method. Euclid (300 B.C.) organized Greek geometry into a thirteen-volume set of books named **The Elements**, in which the geometric relationships were derived deductively (reasoning). Thus, the formal geometry studied today is often called Euclidean geometry. This geometry is also called plane geometry because the terminology deals with flat surfaces. Geometry has undefined terms, defined terms, postulates (assumptions that have been proven true), and theorems for thousands of years, and theorems relationships that have been mathematically and logically proven.

GEOMETRIC FORMULAS

Perimeter: The perimeter, P, of a two-dimensional shape is the sum of all its side lengths. Area: The area, A, of a two-dimensional shape is the number of square units that can be put in the region enclosed by the sides. Note: Area is measured in square units (sq. units, units^2, in^2, ft^2, cm^2, etc.). **Volume:** The volume, V, of a three-dimensional shape is the number of cube units that can be put in the region enclosed by all the sides.

Square Area:
$A = s^2$, $P = 4s$
s = length of a side

Rectangle Area:
$A = lw$, $P = 2l + 2w$
l = length, w = width

Triangle Area:
$A = \frac{1}{2}bh$, $P = a + b + c$
b = base, h = height, a, b, c = sides

Parallelogram Area:
$A = bh$, $P = 2a + 2b$
b = base, h = height, a = side

Trapezoid Area:
$A = \frac{1}{2}h(b_1 + b_2)$, $P = a + b_1 + c + b_2$
b_1, b_2 = bases, h = height, a, c = sides

Circle Area:
$A = \pi r^2$, $C = 2\pi r$ or πd
$\pi \approx 3.14$, r = radius, d = diameter
Example: $r = 5$ cm, $A \approx 78.5$ square cm, $C \approx 31.4$ cm

Pythagorean Theorem:
In a right triangle, $a^2 + b^2 = c^2$
a and b = lengths of legs, c = length of hypotenuse

Rectangular Prism Volume:
$V = lwh$, $SA = 2lw + 2lh + 2wh$
l = length, w = width, h = height

Cube Volume:
$V = s^3$, $SA = 6s^2$
s = length of a side

Cylinder Volume:
$V = \pi r^2 h$, $SA = 2\pi r^2 + 2\pi rh$
r = radius, h = height

Cone Volume:
$V = \frac{1}{3}\pi r^2 h$, $SA = \pi r^2 + \pi rl$
r = radius, h = height, l = slant height

Triangular Prism Volume:
$V = \frac{1}{2}bhl$, $SA = bh + (a + b + c)l$
b = base, h = height, l = length, a, b, c = sides

Rectangular Pyramid Volume:
$V = \frac{1}{3}lwh$, $SA = lw + l\sqrt{\left(\frac{w}{2}\right)^2 + h^2} + w\sqrt{\left(\frac{l}{2}\right)^2 + h^2}$
l = length, w = width, h = height

Sphere Volume:
$V = \frac{4}{3}\pi r^3$, $SA = 4\pi r^2$
r = radius

DESCRIPTIONS OF UNDEFINED TERMS

Point

A. A point may be described as a location with no length, no width, and no depth.

B. A point is always named with a capital letter. It is usually located by using a dot about the size of a period, although true points cannot really be drawn because they have no dimension.

(For Example: A, Kindergarten, point A)

Line

A. A line may be described as a set of points going straight on forever in two opposite directions. Lines are straight and unbroken. There is never a need to use the phrase "straight line" because lines are straight. If something is not straight it cannot be a line, but it might be a curve instead. Lines have length, but no width and no depth. Lines connect locations (points) and they have no width and depth. Representations of lines are drawn with arrows at each end to show that the lines go on and on.

B. Lines are usually named in one of two ways. The first naming method is by using any two points on the line with a line indicator above the points. For example: $\overleftrightarrow{AB}$ or $\overleftrightarrow{BA}$. The order of the points doesn't matter, the line indicator shows the capital letters always point horizontally from left to right and never any other direction, so the correct location of the points is given when determining the location and direction of the line, but the alternative of the line indicator above the capital letters in the notation is:

2. By using one lower case letter with a number subscript, for example: l_1 or l_2.

C. Note: In coordinate geometry, points use the ordered-pair/numbered-values, and exponential equations of lines can be determined. See algebra - Part 2.

Planes

A. A plane may be described as a set of points going on forever in all directions except up, down, and sideways (imagine the very surface of a perfectly flat piece of paper extending on forever in every direction but having no thickness at all). The result would be a location such that when any two points in the plane are connected by a line, all points on the line are also in the plane. Planes have lengths and widths, but no depth.

B. Planes are usually referred to as "plane ___" or "plane ABC (any 3 points on the plane that are not on the same line)" or "the plane containing ___ (other known points in the plane)." Planes can also be drawn. Representations of planes are usually drawn as parallelograms, often with the arrows indicating that the planes go on forever without the corners ever through the points that go on forever.

Postulates

Postulates are statements that have been used and accepted for years when without formal proof. These are postulates:

A. A line contains at least 2 points, and any 2 points locate exactly one line.

B. A plane contains at least 3 points that are not all on the same line, and any 3 points that are not on the same line locate exactly one plane. Therefore, a line and one point not on the line also locate exactly one plane.

C. Any 3 points locate at least one plane.

D. If 2 points of a line are in a plane, then the line is in the plane; or, if two points are in a plane then the line containing the two points is also in the plane.

E. If 2 planes intersect, then their intersection is a line.

DEFINED TERMS

There are many defined terms in plane geometry. The definitions of these terms will be given to you throughout the study guide rather than grouped in one big list.

Note: Students are advised that relationships and statements that have worked for examples and are accepted without justification or proof. These statements are called **postulates** or **axioms**. Postulates and theorems are proven true statements about basic figures presented in geometry. Postulates and theorems are developed over years. They are usually named after the person who made the discovery. Sometimes they are called a postulate or theorem, and sometimes they are simply named and used formally.

Space

refers to the set of all points. Space goes on forever in every direction, and has no length, no width, and depth. Space has no special properties. It is simply referred to as space. Space contains at least 4 points that are not all on the same plane.

General Terms

A. Two segments (rays) are the same if they have the same measurements (lengths), and two angles are the same if they have the same measurements (degrees).

Note: **Corresponding parts of congruent polygons are congruent**; that is, once the polygons have been named (usually in matching order), then the parts that match (corresponds) are congruent.

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