



Geometry Formula

Points, Lines and Planes

Point: a position without length, width or depth.

Line: a series of points that create length, but have no thickness or depth. May be curved, but typically straight with infinite length.

Parallel Lines: two or more lines that never intersect. Both lines will have the same slope.

Transversal: the line that intersects to parallel lines.

Perpendicular Lines: two lines that intersect at a 90° angle. The product of their slopes will equal -1.

Line Segment: the line between 2 points.

Ray: a portion of a line that extends infinitely in one direction.

Angle: a form created when two rays share an endpoint.

Complimentary Angles: two angles with a sum measurement of 90°.

Supplementary Angles: two angles with a sum measurement of 180°.

Vertical Angles: congruent, non-adjacent angles formed by intersecting lines.

Plane: an infinite series of points or lines with no depth.

Formulas

Note: All formulas refer to the points (x1,y1) and (x2,y2).

Distance Formula

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Midpoint Formula

$$(x_m, y_m) = \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

Slope

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

**Equation of a line
(point-slope form)
form)**

$$y - y_1 = m(x_2 - x_1)$$

**Equation of a line
(slope-intercept
form)**

$$y = mx + b$$

Polygons

Definition

Polygon: a closed plane figure with a minimum of three sides. Sides are composed of line segments that intersect at endpoints that are non-collinear.

Types

Regular: a polygon in which sides are congruent (equilateral) and interior angles are congruent (equiangular).

Convex Polygon: a polygon in which any line segment connecting two endpoints lies on the interior of the polygon.

Concave Polygon: a polygon in which one or more line segments connecting two endpoints does not lie on the interior of the polygon.

Angle Measures for Regular Polygons

Shape	# of Sides	Sum Interior Angles	Interior Angle Measure	Exterior Angle Measure
Triangle	3	180°	60	300
Quadrilateral	4	360	90	270
Pentagon	5	540	108	252
Hexagon	6	720	120	240
n-gon	n	180(n-2)°	n(n-2)/n	360/n

Triangles

Types

Right Triangle: a triangle with a 90° angle.

Acute Triangle: a triangle in which all angles are less than 90°.

Obtuse Triangle: a triangle with one angle greater than 90°.

Equiangular Triangle: a triangle in which all angles have the same measure.

Equilateral Triangle: a triangle constructed of three equal sides.

Isosceles Triangle: a triangle in which two sides are equal or congruent.

Scalene Triangle: a triangle in which all sides are different lengths.

Geometry Formula Pamphlet Master

Lester Gray French



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