

Geometry Formula



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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.
Complementary 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

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

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

Equation of a line (point-slope 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.

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

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°.
Equilateral Triangle: a triangle in which all angles have the same measure.
Isosceles Triangle: a triangle in which two sides are equal or congruent.
Scalene Triangle: a triangle in which all sides are different lengths.

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Reviews

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(Wellington Connelly)

GEOMETRY FORMULA



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