



# 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)**

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

**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 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)=m	m/n=mi	360-mi=me

**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 Pamphlet Master

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