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.
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

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

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	300
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.

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SJ Ball

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    - Chapter 3: Geometry Formula Pamphlet Master in Everyday Life
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