

# GEOMETRIC FORMULAS

## POLYGON PROPERTIES

### What is a Polygon?

A closed plane figure made up of several line segments that are joined together. The sides do not cross each other. Exactly two sides meet at every vertex.

### Types of Polygons

**Regular** – all angles are equal and all sides are the same length. Regular polygons are both equilateral and equiangular.

**Irregular** – all angles are equal.

**Equilateral** – all sides are the same length.

**Convex** – a straight line drawn through a convex polygon crosses at most two sides. Every interior angle is less than  $180^\circ$ .

**Concave** – you can draw at least one straight line through a concave polygon that crosses more than two sides. At least one interior angle is more than  $180^\circ$ .



### Polygon Formulas

$(N - 2) \times 180^\circ$  = sum of interior angles (N = number of sides)

Area of a regular polygon =  $\frac{1}{2}(P)(a)$  or  $\frac{1}{2}(s)(n)(a)$

Sum of the exterior angles of a polygon =  $(N - 2) \times 180^\circ$

The number of diagonals in a polygon =  $\frac{1}{2}(N)(N - 3)$

The number of triangles (where you draw all the diagonals from one vertex) in a polygon =  $(N - 2)$

### Polygon Parts

**Side** – one of the line segments that make up the polygon.

**Vertex** – point where two sides meet. Two vertices of three points are called vertices.

**Diagonal** – a line connecting two vertices that isn't a side.

**Interior Angle** – angle formed by two adjacent sides inside the polygon.

**Exterior Angle** – angle formed by two adjacent sides outside the polygon.



### Special Polygons

**Special Quadrilaterals** – square, rhombus, parallelogram, rectangle, and trapezoid.

**Special Triangles** – right, equilateral, isosceles, scalene, acute, obtuse.

### Polygon Names

(usually accepted names)

**Sides**    **Names**

3	Triangle	4	Quadrilateral
5	Pentagon	6	Hexagon
6	Hexagon	7	Heptagon
7	Heptagon	8	Octagon
8	Octagon	9	Nonagon
9	Nonagon	10	Decagon
10	Decagon	11	Undecagon
11	Undecagon	12	Dodecagon



# Geometric Formulas Speedy Study Guide

**Scott C. Dulebohn**



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