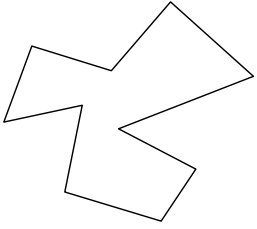


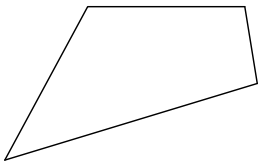
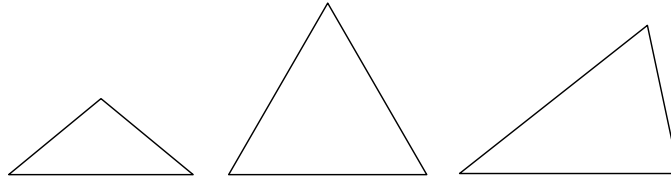
Polygons



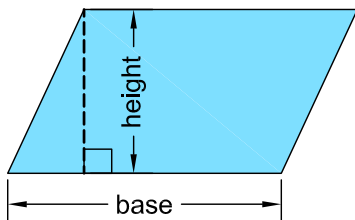
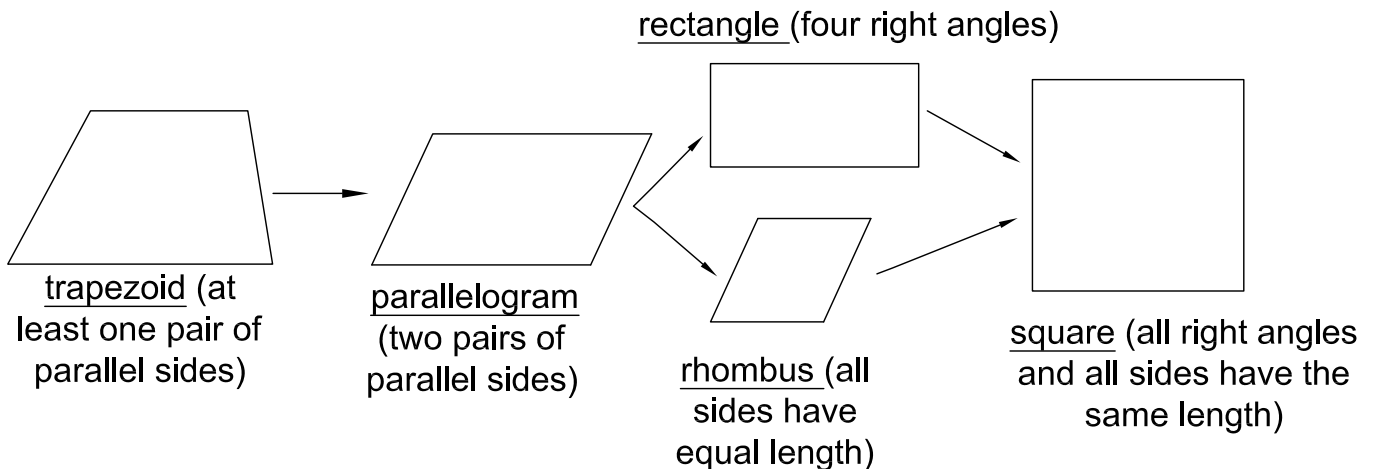
A polygon is a simple, closed plane (flat) figure consisting only of line segments called edges, such that no two consecutive edges line on the same line. We call the endpoint of an edge a vertex (plural vertices).

A polygon is regular if all of its edges are the same length and all of its angles have the same measure.

Every triangle is a polygon. Equilateral triangles are regular polygons.

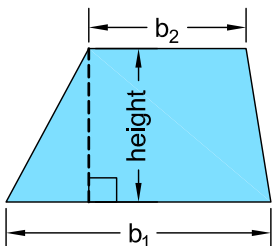


A quadrilateral is a polygon with four sides.



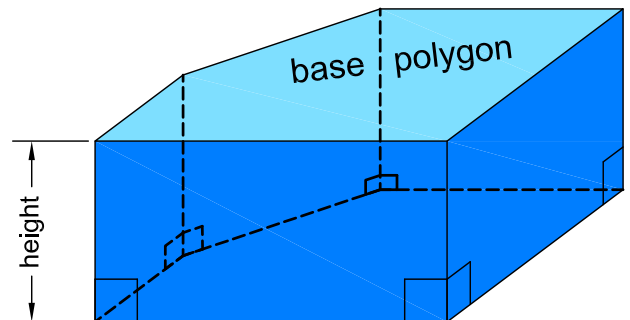
The area of a parallelogram is

$$\text{area} = (\text{base})(\text{height})$$



The area of a trapezoid is

$$\text{area} = \frac{1}{2} (b_1 + b_2)(\text{height})$$



The volume of a solid polygon is

$$\text{volume} = (\text{area of base polygon})(\text{height})$$