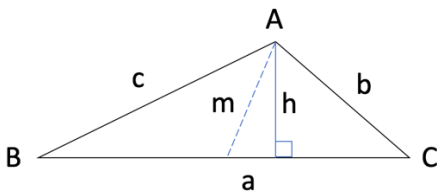


**Triangles** are 3-sided polygons.



**A**, **B**, and **C** are the 3 corner angles of the triangle. You can express them in degrees or radians. Angles must be positive and the sum of all 3 must equal 180 degrees.

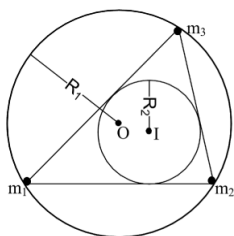
**a**, **b**, **c** are the lengths of 3 sides of the triangle.

**Perimeter** is the distance around the outside of the triangle,  $a + b + c$ .

**Area** is the area inside the triangle.

**Height** (marked  $h$  in the diagram) is the height from side  $a$  to corner  $A$ .

**Median** (marked  $m$  in the diagram) is the distance from the middle of side  $a$  to corner  $A$ .



**Inradius** ( $R_2$  above) is the radius of the circle that fits inside the triangle and just touches each of the 3 sides.

**Circumradius** ( $R_1$  above) is the radius of the circle that runs through all three corners of the triangle.