Triangles

A triangle is a three sided polygon. It has three vertices, three sides and three vertices.

Triangles can be classified based on special characteristics of their sides or their angles

Based on the sides, there are three different types of triangles

Scalene Triangle: no equal sides



Isosceles Triangle: two equal sides



Equilateral Triangle: all equal sides



Based on the angles, there are three different types of triangles

Acute Triangle: a triangle with every angle that measures less than 90°



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Right Triangle: a triangle with an angle that measures exactly 90°



■ Obtuse Triangle: a triangle with an angle that measures greater than 90°



Examples:

A- Classify each triangle by its angles and sides.



<u>Right Angle Triangle,</u> <u>it had a 90° angle</u> <u>Equilateral Triangle,</u> <u>it has all 3 sides equal</u>

 B- Tell if the following angles form a triangle.

 3)40°, 60°, 80°
 4) 75°, 85°, 40°

 <u>40° + 60° + 80° = 180°</u>
 75° + 85° + 40° = 200°

 The sum of angles is 180°
 The sum of angles is 200°

 It is a triangle
 It is not a triangle