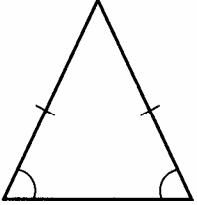
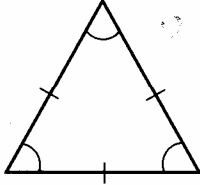
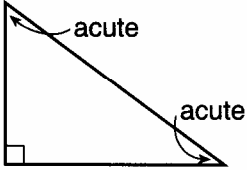


## Special triangles (isosceles, equilateral, right) :

### Triangle

A polygon that has three sides is called a triangle. Triangles are named by the characteristics of their angles and side. The following table show three types of triangles and their characteristics.

Triangles		
		
<b>Isosceles Triangle</b> at least two congruent sides and angles	<b>Equilateral Triangle</b> three congruent sides and angles	<b>Right Triangle</b> one right angle

### Isosceles

An isosceles triangle has at least two sides of equal length with congruent base angles.

### Equilateral

An equilateral triangle has all sides of equal length and all angle measures are congruent. Since the measures of the angles of a triangle must add up to  $180^\circ$ , each angle of an equilateral triangle must measure  $60^\circ$ . Every equilateral triangle is also an isosceles triangle, because it has at least 2 congruent angles and sides.

### Right

A right triangle has one angle that measures  $90^\circ$ . If the other two angles of a right triangle measure  $45^\circ$ , then it is also an isosceles triangle. It is impossible to have an equilateral right triangle, because all the angles in an equilateral triangle must measure  $60^\circ$ .