

4.1 Apply Triangle Sum Properties

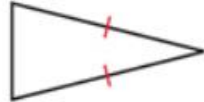
Classifying Triangles by Sides

Scalene Triangle



No congruent sides

Isosceles Triangle



At least 2 congruent sides

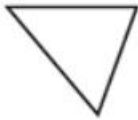
Equilateral Triangle



3 congruent sides

Classifying Triangles by Angles

Acute Triangle



3 acute angles

Right Triangle



1 right angle

Obtuse Triangle



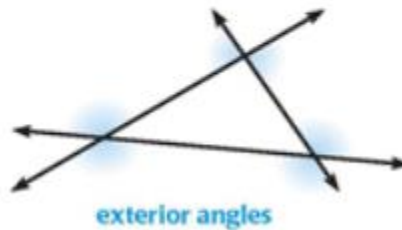
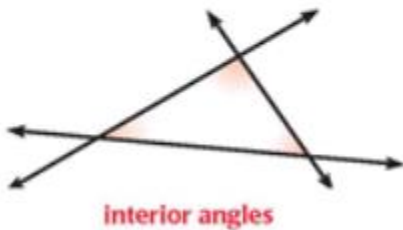
1 obtuse angle

Equiangular Triangle



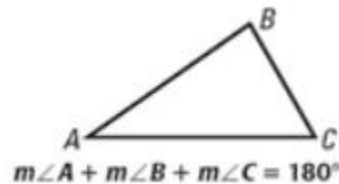
3 congruent angles

ANGLES When the sides of a polygon are extended, other angles are formed. The original angles are the **interior angles**. The angles that form linear pairs with the interior angles are the **exterior angles**.



THEOREM 4.1 Triangle Sum Theorem

The sum of the measures of the interior angles of a triangle is 180° .



THEOREM 4.2 Exterior Angle Theorem

The measure of an exterior angle of a triangle is equal to the sum of the measures of the two nonadjacent interior angles.

