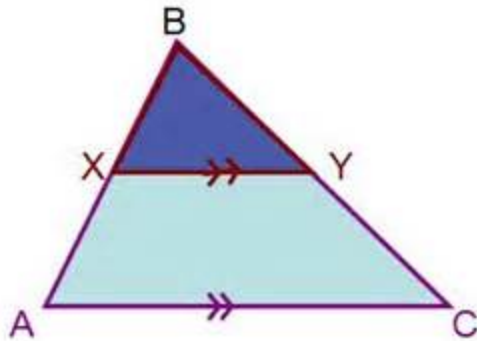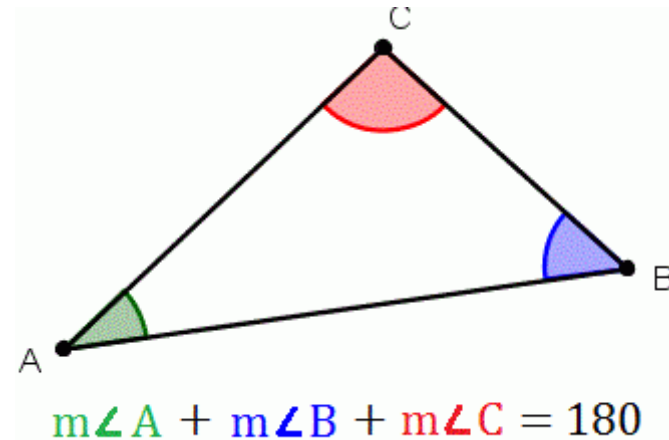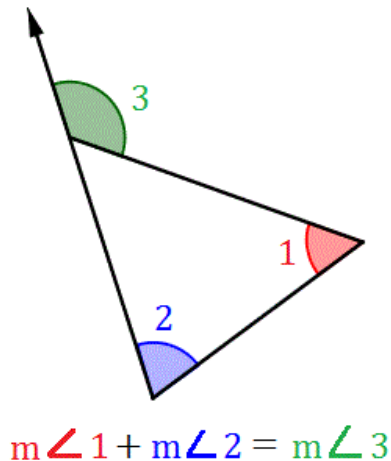# Triangle Theorems

Side Splitter Theorem

Two triangles have the same angles and corresponding sides

Triangle Sum Theorem

The sum of the interior angles on any triangle is equal to 180°

$$m\angle A + m\angle B + m\angle C = 180$$

$$m\angle 1 + m\angle 2 = m\angle 3$$

Triangle Exterior angle theorem

The measure of an exterior angle of a triangle is equal to the sum of the measures of the two non-adjacent interior angles of the triangle