

Triangles and Angles

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Triangle Sum Theorem

The sum (that means add) of the 3 angles of a triangle is 180 degrees.

So how big are the angles of an equilateral triangle?

In a right triangle, what kind of angles are the 2 non-right angles?

Find the measure of the missing angles.

The expressions represent the angle measure of a triangle. Find the measure of each angle then classify the triangle by its angles.

$$A = x + 30$$

$$B = x$$

$$C = x + 60$$

$$A = 6x + 11$$

$$B = 3x + 2$$

$$C = 5x - 1$$

- In triangle ABC, the measure of angle A is 80 degrees. The measure of angle B is four times the measure of angle C. Find the measure of the 3 angles and classify the triangle by its sides and angles.

Exterior Angle Theorem

- The measure of an **exterior angle** of a triangle is equal to the sum of the measures of the 2 **non-adjacent interior angles**.

Find the measure of the exterior angle
shown.