

The sum of all the angles of a triangle is 180° .

An AUXILIARY LINE is a line that is added to a figure to aid in solving a proof.

Corollary: The acute angles of a right triangle are COMPLEMENTARY.

Corollary: The measure of each angle of an equiangular triangle is 60° .

An interior angle is located inside the triangle. Example: $\angle 1, \angle 2, \angle 3$

An exterior angle is located outside the triangle by an extension of one of the sides. Example: $\angle 4$

A REMOTE INTERIOR ANGLE is an angle that is not adjacent to the exterior angle.

Example: $\angle 1$ AND $\angle 2$ are remote interior angles to $\angle 4$

Exterior Angle Theorem: The measure of an exterior angle of a triangle is equal to the sum of the measures of the two remote interior angles.



Explanation: $\angle 3$ SUPP. $\angle 4$

$$m\angle 3 + m\angle 4 = 180^\circ$$

$$m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$$

$$m\angle 3 + m\angle 4 = m\angle 1 + m\angle 2 + m\angle 3 \leftarrow \text{SUBTRACT } m\angle 3 \text{ FROM BOTH SIDES}$$

$$m\angle 4 = m\angle 1 + m\angle 2$$

Third Angles Theorem: If two angles of one triangle are congruent to two angles of another triangle, then the third pair of angles is congruent.

Examples: $\angle N \cong \angle T$



1. Find each angle measure below using the diagram

a. $m\angle XYZ$

$$x + 62 + 40 = 180$$

$$x + 102 = 180$$

$$x = 78$$

$$m\angle XYZ = 78^\circ$$

b. $m\angle YWZ$

* NEED $m\angle YXW$

$$180 - 62 = 118^\circ$$

$$x + 118 + 12 = 180$$

$$x + 130 = 180$$

$$x = 50$$

$$m\angle YWZ = 50^\circ$$



2. a. The measure of one acute angle in a right triangle is 63.7° . What is the measure of the other acute angle?



$$m\angle A + m\angle C = 90$$

$$63.7 + m\angle C = 90$$

$$m\angle C = 26.3^\circ$$

b. The measure of one acute angle in a triangle is $2x^\circ$. What is the measure of the other acute angle?



$$m\angle A + m\angle C = 90$$

$$2x + m\angle C = 90$$

$$m\angle C = 90 - 2x$$

$\leftarrow$ NOT GIVEN AN ANGLE MEASURE IN DEGREES, SO LEAVE X IN THIS ANSWER

Using Congruent Triangles Cpctc Practice 4 4 Answers

Philip L. Cox



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