

Geometry

Notes Section 4.1

Apply Triangle Sum Properties

VOCABULARY

Triangle: _____

Scalene Triangle: _____

Isosceles Triangle: _____

Equilateral Triangle: _____

Acute Triangle: _____

Right Triangle: _____

Obtuse Triangle: _____

Equiangular Triangle: _____

THEOREMS/POSTULATES/COROLLARIES

Theorem 4.1 (Triangle Sum)

The sum of the measures of the interior angles of a triangle = _____

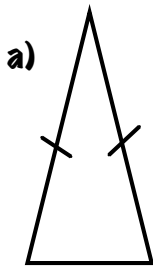
Theorem 4.2 (Exterior Angle)

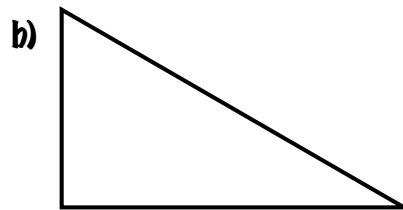
The measure of an exterior angle of a triangle = the sum of the remote interior angles.

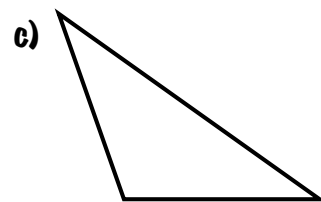
Corollary (Triangle Sum)

The acute angles of a right triangle are _____

EXAMPLE 1 Classify the triangle shape by its sides and angles.







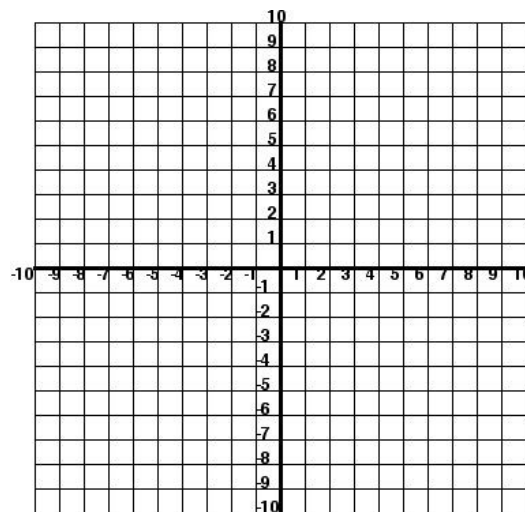
EXAMPLE 2 Classify ΔPQO by its sides. Then determine if the Δ is right.

$P(-1,2)$ $Q(6,3)$ $O(0,0)$

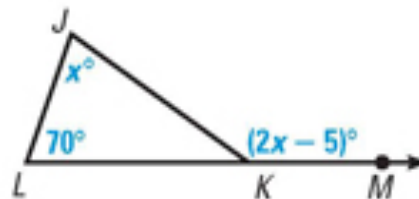
$OP =$

$OQ =$

$PQ =$



EXAMPLE 3 Find $m\angle JKM$.



EXAMPLE 4 Find the measure of each acute angle.

