
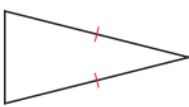

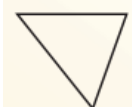
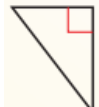

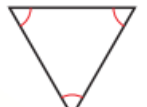


Geometry 5.1 Notes: Classifying Triangles

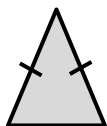
Classifying Triangles by their SIDES

Scalene Triangle	Isosceles Triangle	Equilateral Triangle
		
No congruent sides	At least 2 congruent sides	3 congruent sides

Classifying Triangles by their ANGLES

Acute Triangle	Right Triangle	Obtuse Triangle	Equiangular Triangle
			
3 acute angles	1 right angle	1 obtuse angle	3 congruent angles

1. Classify the triangular shape by its sides.

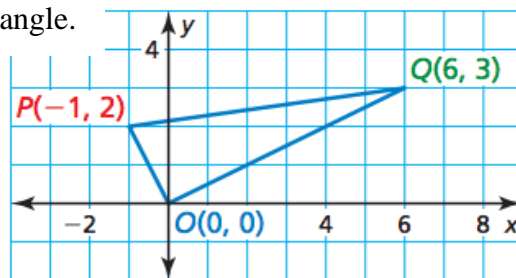


2. Classify the triangular shape by its angles.



In the Coordinate Plane

3. Classify $\triangle OPQ$ by its sides. Then determine whether it is a right triangle.

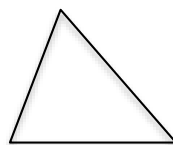
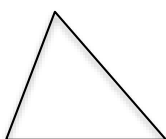


Finding Angle Measures of Triangles

When the sides of a polygon are extended, other angles are formed.

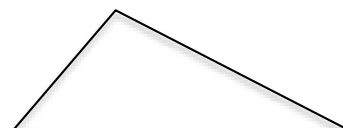
→ The ORIGINAL angles are the _____ angles

→ The angles that form _____ with the interior angles are the _____ angles.



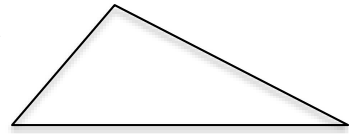
Triangle Sum Theorem

The sum of the measures of the interior angles of a triangle is _____.

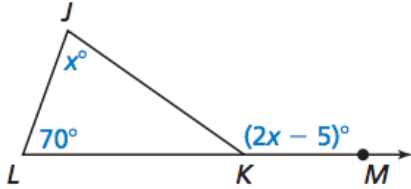


Exterior Angle Theorem

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

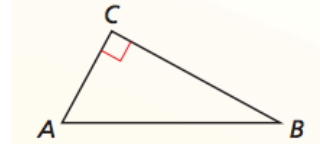


4. Find $m\angle JKM$



Corollary to the Triangle Sum Theorem

The acute angles of a right triangle are _____.



5. Find the measure of each acute angle.

