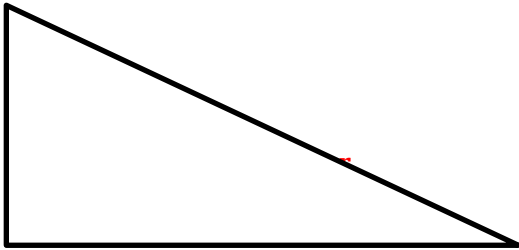


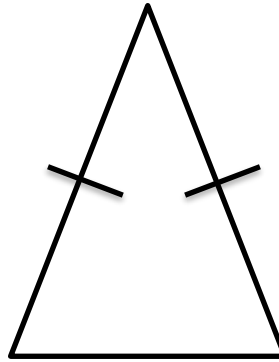
Geometry

5.1 Angles of Triangles

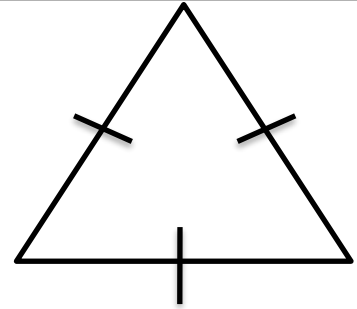
Classify Triangles by sides



No congruent sides

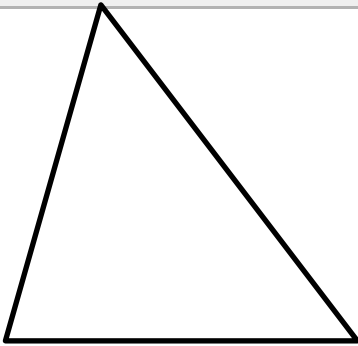


Two congruent sides

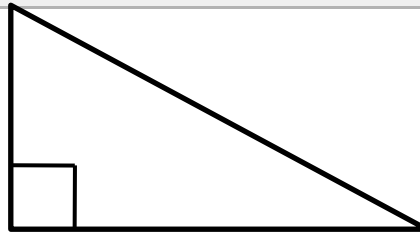


All congruent sides

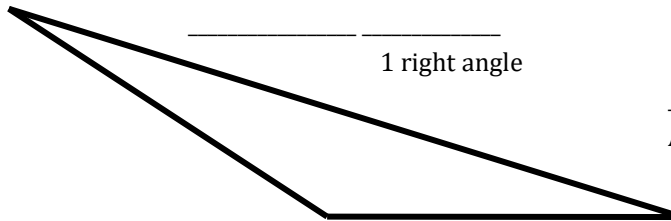
Classify Triangles by Angles



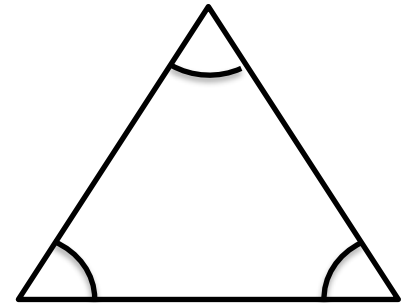
3 acute angles



1 right angle

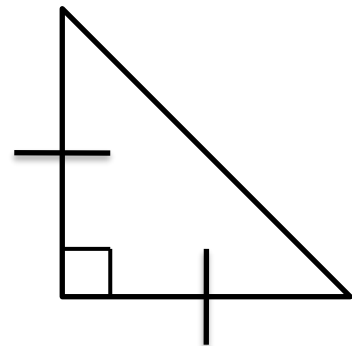
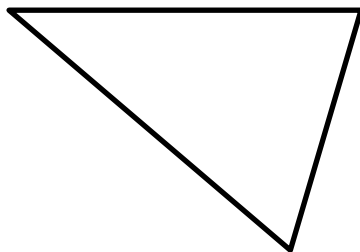


1 obtuse angle



All congruent angles

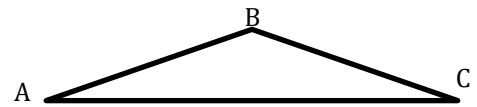
Classify the following triangle by sides and angles



$\triangle ABC$ has vertices $A(0, 0)$, $B(3, 3)$, and $C(-3, 3)$. Classify it by its sides. Then determine if it is a right triangle.

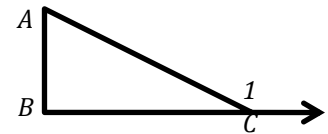
Triangle Sum Theorem

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



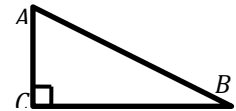
Exterior Angle Theorem

The measure of an _____ angle of a triangle _____ the _____ of the _____.

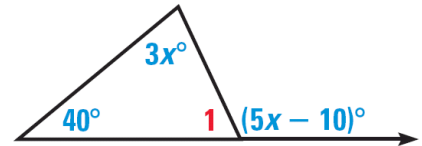


Corollary to the Triangle Sum Theorem

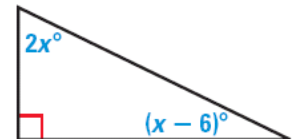
The _____ of a _____ triangle are _____.



Find the measure of $\angle 1$ in the diagram.



Find the measures of the acute angles in the diagram.



Assignment: 228 #2, 4, 6, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 42, 44, 48, 55, 58, 59 = 20 total