

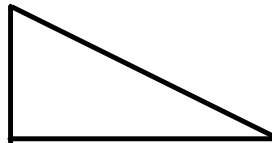
4.2 Angle Measures of Triangles

Objective: Find angle measures in triangles.

Triangle Sum Theorem: The sum of the measures of the angles of a triangle is 180° .

A corollary to a theorem is a statement that can be proved easily using the theorem.

Corollary to the Triangle Sum Theorem: The acute angles of a right triangle are complementary.

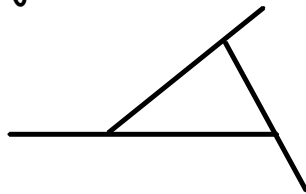


Checkpoint at the bottom of page 180.

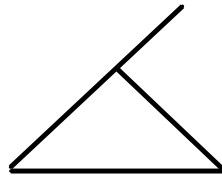
When the sides of a triangle are extended, other angles are formed.

The three original angles of the triangle are interior angles.

The angles that are adjacent to the interior angles are the exterior angles.



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



Checkpoint at the bottom of page 181.