## Activity 3 - Exterior and Interior Angle Theorem

## Objectives

This activity is designed to help students discover the following theorems:
$\checkmark$ Triangle Sum Theorem: The sum of the measures of the interior angle of a triangle is 180.
$\checkmark$ 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.
Vocabulary
triangle
vertex
interior
how to name an angle
Prerequisites
Students must understand how to:
$\checkmark$ Create and label a triangle.
$\checkmark$ Measure and label angles.

## Answers

6. 180. 
1. 180. 
1. Sum of the interior angles of a triangle is 180 .
2. They are equal.
3. $\angle B A C$ and $\angle B C A$.
4. They are equal.
5. They are equal.
6. The exterior angle is equal to the sum of the two remote interior angles.


Figure A. 1

