

Example: Given p : "the angle is a right angle" q : "the angle measures 90° "	
Conditional statement: $p \rightarrow q$	Converse Statement: _____
Inverse statement: _____	Contrapositive Statement: _____

Core Concept: When a conditional statement and its converse are both true, they can be combined into a single **biconditional** statement using the phrase, _____. Any _____ can be written as a _____ statement.

Write the definition of a right angle as a **biconditional** (using the phrase "if and only if"):

An angle is a _____

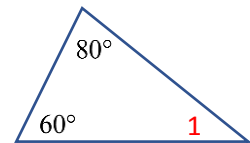
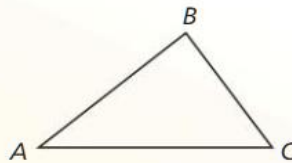
Write the definition of perpendicular lines as a **biconditional**:

Two lines are perpendicular _____

Theorem

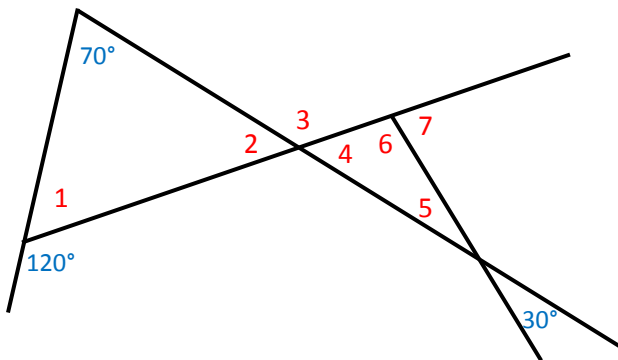
Theorem 5.1 Triangle Sum Theorem

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



$m\angle 1 = \underline{\hspace{2cm}}$

a) Find the measure of each angle.



- $m\angle 1 =$
- $m\angle 2 =$
- $m\angle 3 =$
- $m\angle 4 =$
- $m\angle 5 =$
- $m\angle 6 =$
- $m\angle 7 =$

b) Find the measure of each angle. Write and solve an equation.

_____ + _____ + _____ = 180

The three angles measure:

_____, _____, _____

