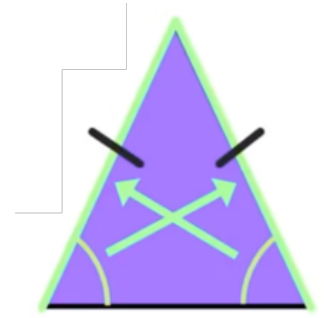


Name: _____

Lesson Guide

This lesson guide accompanies the following video lesson:

Isosceles Triangle Theorems



Key Questions:

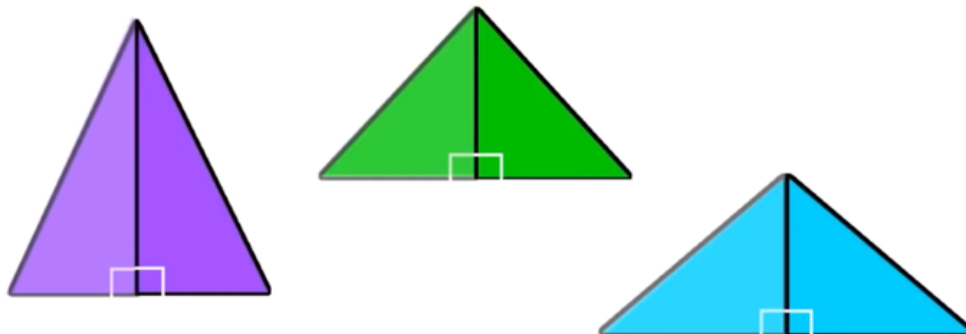
- What are the properties of isosceles triangles?
- How can you identify an isosceles triangle?
- What is the relationship between angles and sides in an isosceles triangle?

Definition: An _____ triangle is a triangle with two congruent (equal) sides.

Examples:

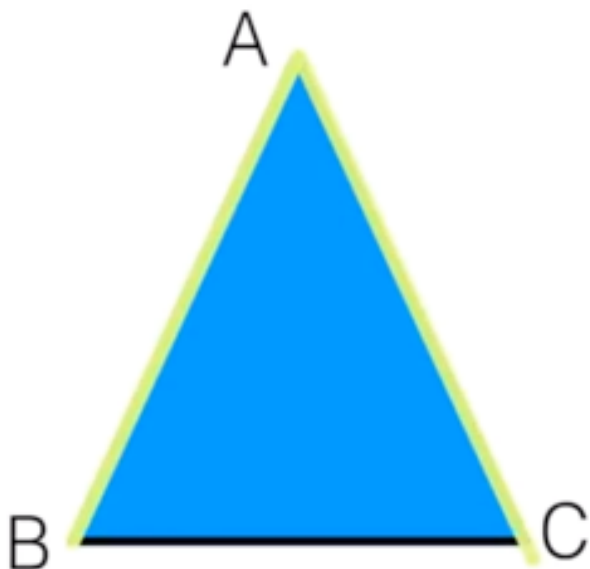


What happens when you cut an isosceles triangle in half vertically by drawing a vertical line that passes through the vertex and cuts the base in half?



Isosceles Triangles Theorem 01

If two sides of a triangle are congruent,
then the angles them are also congruent.



If

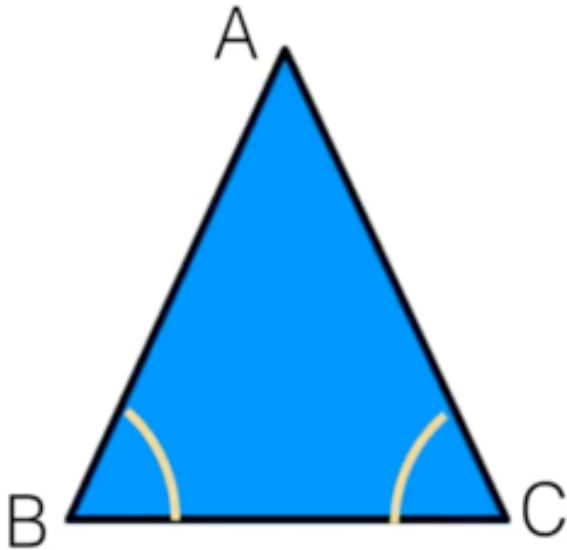
Then

$\triangle ABC$ is

My notes:

Isosceles Triangles Theorem 02

If two angles of a triangle are congruent, then the sides them are also congruent.



If

Then

$\triangle ABC$ is

My notes:

Isosceles Triangles

Theorem 01

VS

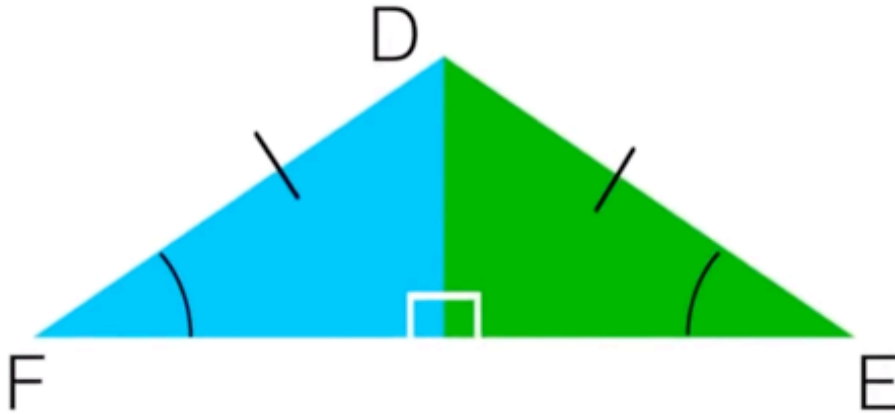
Theorem 02



In your own words, describe the key relationship between the congruent sides and congruent angles in any isosceles triangle:

Isosceles Triangles

The of an isosceles triangle bisects the vertex angle.



If

Then

AND

Final Thought

In your own words, explain why or why not an equilateral triangle is an isosceles triangle. You can draw a diagram to help you!

