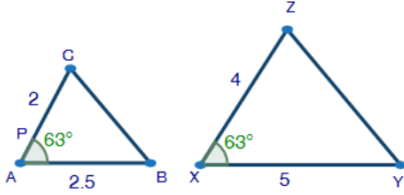
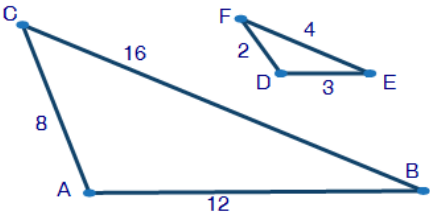
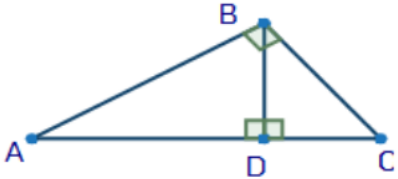


3.05 Triangle Congruence & Similarity

Triangle Similarity Postulates

Side-Angle-Side Similarity Postulate Video CLICK HERE	Side-Side-Side Similarity Postulate Video CLICK HERE
If two or more triangles have corresponding _____ angles, and the sides that make up these angles are _____, then the triangles are similar.	If all corresponding _____ of two or more triangles form the same _____, then the triangles are similar.
<p>Example:</p> 	<p>Example:</p> 

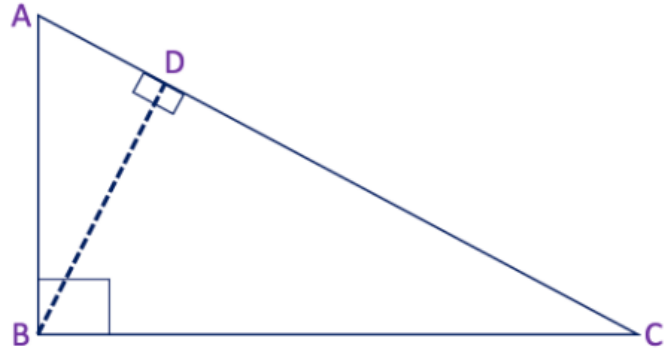
Right Triangle Similarity Theorem

Pieces of Right Triangle Similarity Theorem Video CLICK HERE	
If an altitude is drawn from the _____ angle of a right triangle, the two smaller triangles created are _____ to one another and to the larger triangle.	
	

Similar Right Triangles “Numbers” Method Video [CLICK HERE](#)

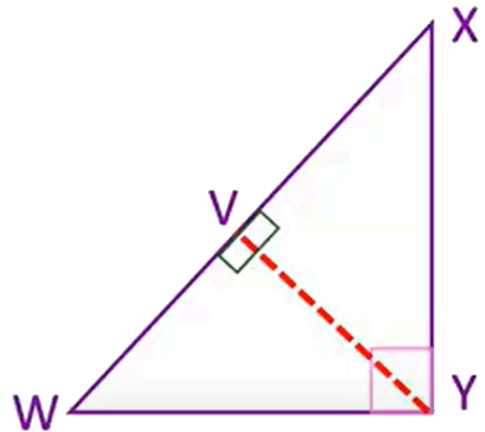
Label the triangles that are similar:

$$\triangle ABC \sim \triangle \underline{\hspace{1cm}} \sim \triangle \underline{\hspace{1cm}}$$



Practice: Identify the Similar Right Triangles

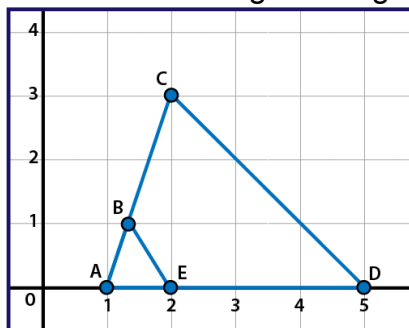
$$\triangle \underline{\hspace{1cm}} \sim \triangle \underline{\hspace{1cm}} \sim \triangle \underline{\hspace{1cm}}$$



Practice

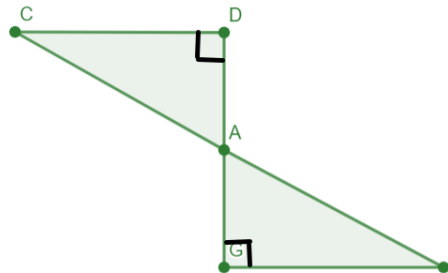
Question 1 Video [CLICK HERE](#)

Katie is creating a smaller scaled replica of a triangular picture. Set up an equation to determine the length of segment AE.



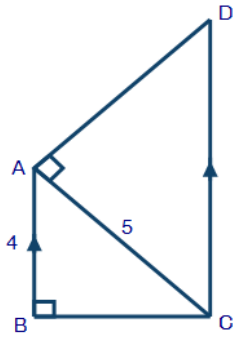
Question 2 Video [CLICK HERE](#)

The following triangles are in a ratio of 1:1. If $AG=2x-18$ and $DA=x+6$, what is the length from D to G?



Question 3 Video [CLICK HERE](#)

Determine if the two triangles are similar and then solve for side CD.

**Question 4** Video [CLICK HERE](#)

Which triangle(s) is similar to triangle RST using the Pieces of Right Triangles Similarity Theorem?

- ☐ STV
- ☐ VTS
- ☐ RVS
- ☐ SRV
- ☐ SVT

