Geometry CC – Mr. Valentino	Name:	
Unit 6 Lesson 5: Altitudes Drawn in Right Triangles	Date:	Period:

Do Now: Please take out your **HW** from yesterday. We are going to go over it.

THEOREM!

The ______ to the hypotenuse of a right triangle forms two triangles that are ______ to each other and to the original triangle. C



We are going to break down the above triangle into _____ SIMILAR triangles.

Recall! What do we know about **similar** triangles:

What are some of the proportions that we can set up:

There is an extremely valuable **trick** that we can use to solve problems associated with this spectacular theorem. Let's discuss it.





OK! Time for some practice.

1. Find *x*.







3)

6)









Find the length of the **altitude** in each of the below triangles.



Solve for the variables x, y, and z in each triangle.





