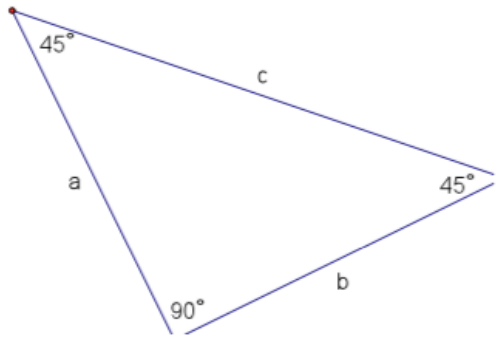
Geometry (G.SRT.5) Name: _____

Unit 8 Notes1: Special Right Triangles Period: _____ Date: _____

I can identify the relationships in special right triangles.

Fill in the table below using the diagram and information given. Each row represents a new triangle, but all triangles have the angle measures given in the diagram. Do scratch work off to the side. Leave answers in reduced radical form.



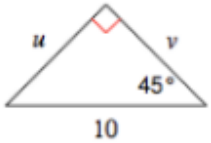
	a	b	c
1.	5		
2.		7	
3.			$13\sqrt{2}$
4.	$3\sqrt{2}$		
5.		$4\sqrt{3}$	

List all the patterns you notice in the chart. Can you justify why the patterns occur?

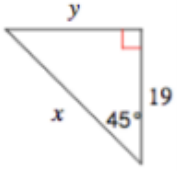
Summarize:

Use what you found to find the missing lengths in the following triangles.

1.



2.



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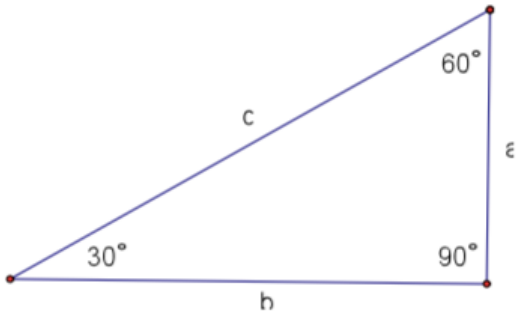


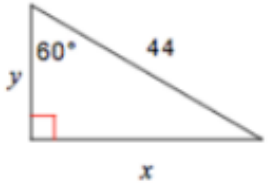
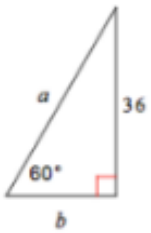
	a	b	c
1.	5		10
2.		$7\sqrt{3}$	14
3.	3	$3\sqrt{3}$	
4.		9	$6\sqrt{3}$
5.	$4\sqrt{2}$		$8\sqrt{2}$

List all the patterns you notice in the chart. Can you justify why the patterns occur?

Summarize:

Use what you found to find the missing lengths in the following triangles.

1.



2.