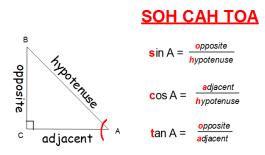
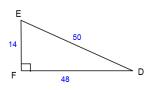
Geometry	Name:		
Guided Notes			
Trigonometric Ratios	Date:	Period:	
Trigonometry - from the Greek language. It means "triangle measurement."			

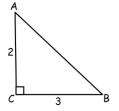
trigonometric ratio - ratio of the lengths of two sides of a right triangle



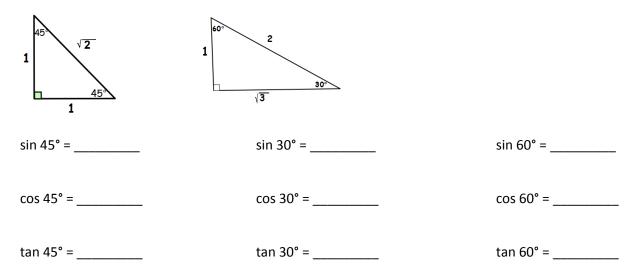
Example #1: Find the sine, cosine, and tangent of the indicated angle ($\angle D \& \angle E$).



Example #2: Find the sine, cosine, and tangent of the indicated angle ($\angle A \otimes \angle B$)



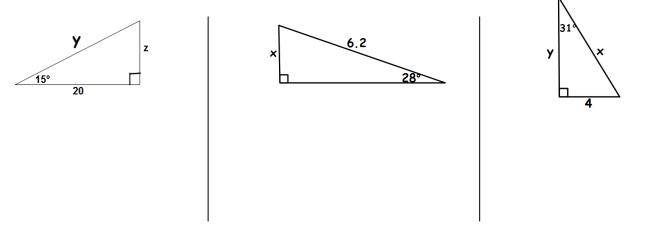
Trigonometric Ratios for Special Right Triangles



Geometry		Name:	
Guided Notes			
Trigonometric Ratios		Date:	Period:
Finding trigonometric ratios	for triangles that are not 45°- 4	<u>5° - 90° or 30° - 60° - 90°</u>	
YOU MUST USE A CALCULAT			
 Place the calculator in de Find the sin, cos and tan l 	•		
Example #3: Use a calculato	r to approximate the given value	to four decimal places.	
1. sin 35° =	2. cos 10° =	3. tan	74° =

Using trigonometric functions to find a side

Example #4: Solve for the variable(s). Round the final answer(s) to one decimal place. Do not round until the final answer.



Angle of Elevation

Example #5: You are measuring the height of a building. You stand 100 feet from the base of the building. You measure the angle of elevation from a point on the ground to the top of the building to be 48°. Estimate the height of the building.

