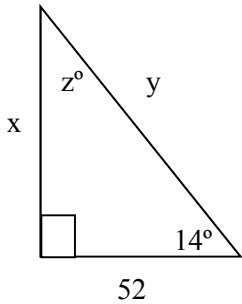
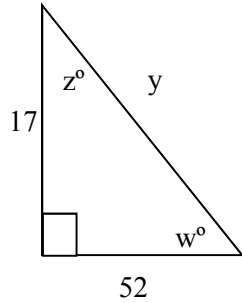
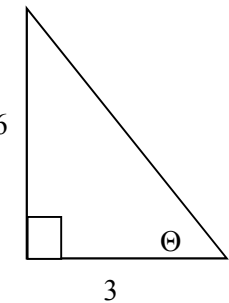


## What are we learning in the Trigonometry unit?

\*\*Please indicate how you feel about the required topics in this unit. \*\*

<b>CALCULATOR ALLOWED OBJECTIVES</b>			
Objective	Example	Answer	Rating
Find all missing measures given one angle and one side length. Round all values to the nearest hundredth.		$x = 12.97$ $y = 53.59$ $z = 76^\circ$	
Find all missing measures given two side lengths. Round all values to the nearest hundredth.		$w = 18.10^\circ$ $y = 54.71$ $z = 71.9^\circ$	
Write the three trigonometric ratios associated with $\theta$ .		$\sin \theta = \frac{2\sqrt{5}}{5}$ $\cos \theta = \frac{\sqrt{5}}{5}$ $\tan \theta = 2$	
Right triangle application angle of elevation or angle of depression	Sailors on a ship observe a lighthouse at an angle of $34^\circ$ to the path of the ship. After the ship has sailed 2000 yards more, the lighthouse is at $40^\circ$ to the ship's path. How far is the ship from the lighthouse at the first sighting and at the second sighting?	8,169 and 10,169 yards	
Find exact values of special angles	Evaluate <i>without a calculator</i> (for example-there several more):  $\cos 60^\circ = \frac{1}{2}$ $\sin 45^\circ = \frac{\sqrt{2}}{2}$ $\tan 30^\circ = \frac{\sqrt{3}}{3}$		

