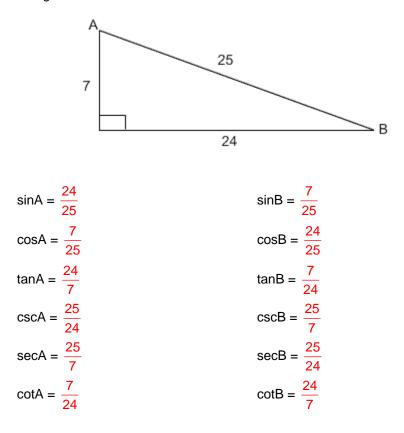
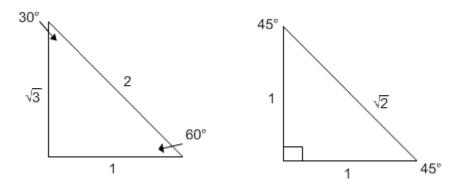
Geometry Unit: Right Triangles and Trigonometry Section: Ratios of Right Triangles

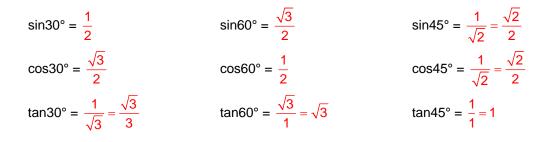
Review Worksheet KEY

1) Find the sine, cosine, tangent, cosecant, secant and cotangent of both angle A and angle B in the right triangle below.

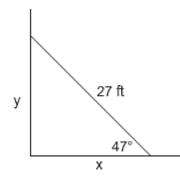


2) Draw the 30°-60°-90° Special Right Triangle and the 45°-45°-90° Special Right Triangle and then find the sine, cosine and tangent of 30°, 60°, and 45°.





3) A 27 ft ladder leans against a wall at an angle of elevation of 47°. How high off the ground does the top of the ladder touch the wall? How far away from the wall is the base of the ladder?



 $\sin 47^{\circ} = \frac{y}{27}$ $27 \cdot \sin 47^{\circ} = y$ $19.75 \approx y$

The top of the ladder is approximately 19.75 ft off the ground.

 $\cos 47^{\circ} = \frac{x}{27}$ $27 \cdot \cos 47^{\circ} = x$ $18.41 \approx x$

The base of the ladder is approximately 18.41 ft away from the wall.