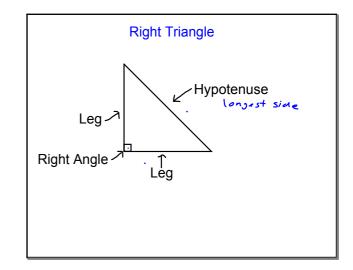
8-1 Pythagorean Theorem and Solving Right Triangles

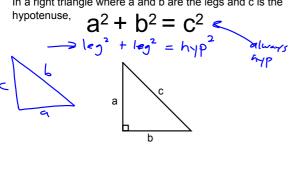
I can solve right triangles. I can use the pythagorean theorem.



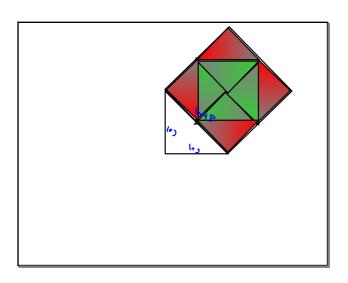
Oct 27-4:52 PM Oct 27-4:53 PM

Pythagorean Theorem

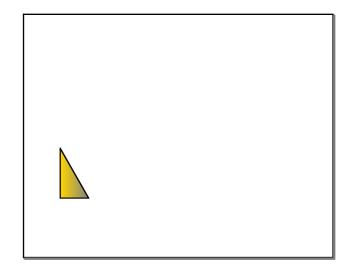
In a right triangle where a and b are the legs and c is the hypotenuse,



Oct 27-5:05 PM

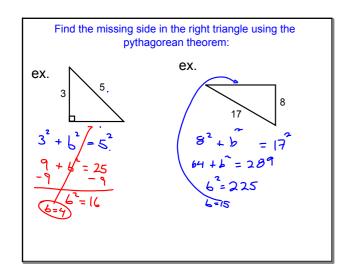


Feb 2-6:52 AM

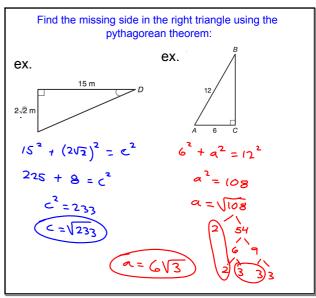


Find the missing side in the right triangle using the pythagorean theorem: ex. ex.

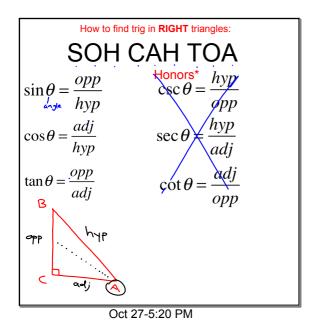
Feb 2-7:37 AM Oct 27-5:12 PM



Oct 27-5:12 PM

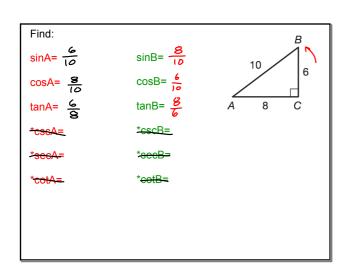


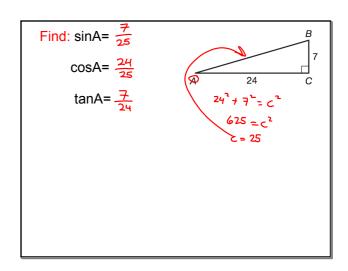
Oct 27-5:12 PM



Find: $\frac{\sin A}{\cos A} = \frac{4}{\sqrt{2}}$ $\frac{\cos A}{\cos A} = \frac{4}{\sqrt{2}}$ $\frac{\tan A}{\cos A} = \frac{4}{\sqrt{2}}$ $\frac{\csc A}{\cos A} = \frac{4}{\cos A}$ $\frac{\cot A}{\cot A} = \frac{4}{\cot A}$ $\frac{\cot A}{\cot A} = \frac{4}$

Oct 27-5:40 PM





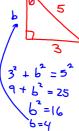
Oct 27-5:40 PM Oct 27-5:58 PM

Oct 28-10:55 AM

Find the all other trigonometric functions: (hint: draw a triangle)

$$\sin\theta = \frac{3}{5} \quad \frac{\text{PP}}{\text{WP}}$$

$$\cos \theta = \frac{4}{5}$$



Oct 28-12:02 PM

Find the other six trigonometric functions:

(hint: draw a triangle)

$$\cos\theta = \frac{12}{13}$$

You want to hang up christmas lights on your house. There are bushes around your house, so the ladder has to be set up 5 feet away from your house. If your roof is 21 feet tall, to the nearest foot, how tall does your ladder need to be? Draw a diagram.

Oct 28-12:02 PM

Oct 27-6:24 PM

A moving truck is equipped with a ramp that extends from the back of the truck to the ground. When the ramp is fully extended, it touches the ground 12 feet from the back of the truck. The height of the ramp is 2.5 feet.

Draw a diagram then find the length of the ramp to the nearest tenth of a foot.