$$\sin\theta = \frac{O}{N}$$

$$\cos \theta = \frac{\alpha}{N}$$

$$\tan \theta = \frac{0}{a}$$

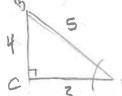
12

Use the triangle to the right for questions 1~5.

$$1.\overline{BC} = 12$$

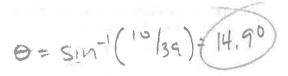
2. Tan 
$$C = \frac{5}{12}$$

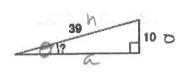
In  $\triangle ABC$ , where  $\angle ACB = 90^{\circ}$ ,  $\sin A = \frac{4}{5}$ . Find  $\cos A$ . Draw a diagram.



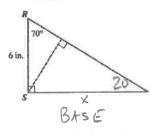
8.

Find the missing side or angle in the following triangles in 7-10.

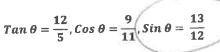




Find the area of the large triangle.

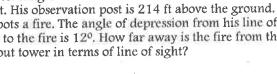


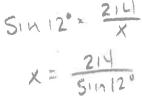
Which one is not a valid trig function? CIRCLE

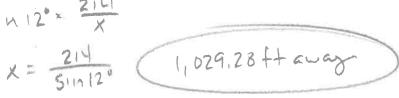


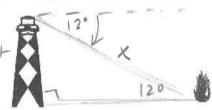
SIND, 1050 Cam's evaluate lo a extro >1.

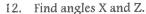
11. A forest ranger is on a fire lookout tower in a national forest. His observation post is 214 ft above the ground. He spots a fire. The angle of depression from his line of sight to the fire is 12°. How far away is the fire from the lookout tower in terms of line of sight?

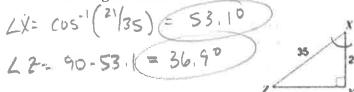








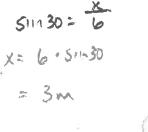


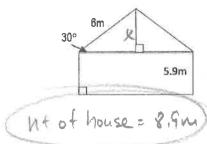


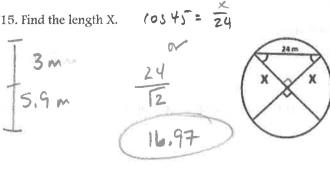
13. Find angles A and C.

$$\angle A = Sin^{-1}(\frac{21}{27.5}) = 49.80$$
 $\angle C = 90 - 49.8 = 40.20$ 

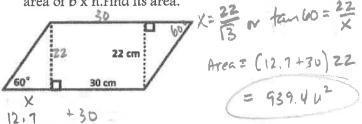
27.5



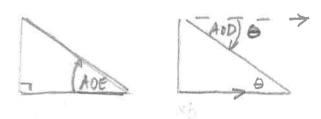




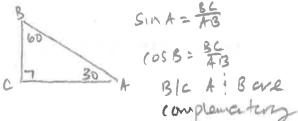
16. The figure below is a parallelogram which has an area of b x h. Find its area.



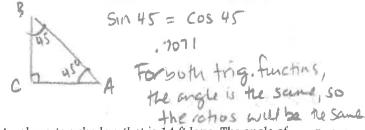
17. Draw an example of an angle of elevation and an angle of depression.



What does Sin A = Cos B mean? Use a diagram.



What does Sin A = Cos A mean? Use a diagram.



20. The top of a waterslide is 14 ft above the ground. The angle of depression from the top of the water slide to the ground is 22°. How long is the slide?

21. A pole casts a shadow that is 14 ft long. The angle of elevation is 45°. What is the length of the pole?

