
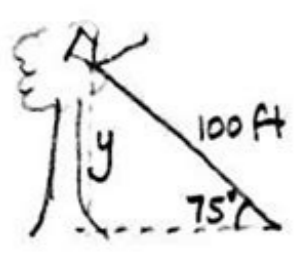
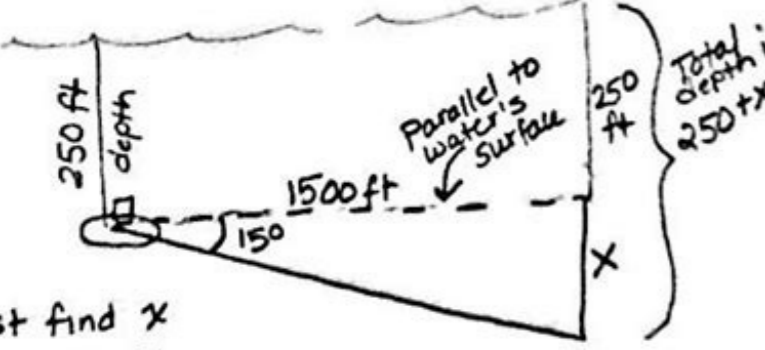


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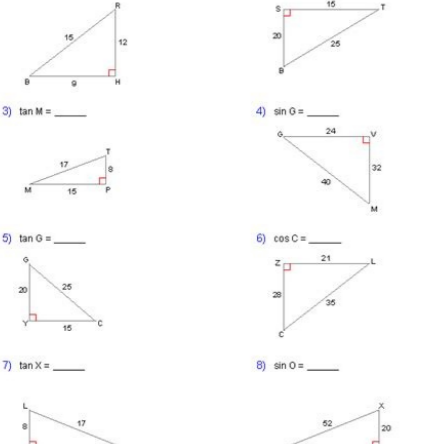
④   $\sin 75 = \frac{y}{100}$   
 $100 \cdot \sin 75 = \frac{y}{100} \cdot 100$   
 $100 \sin 75 = y$   
 $96.59 \approx y$   
 The tree is about 96.59 ft tall.

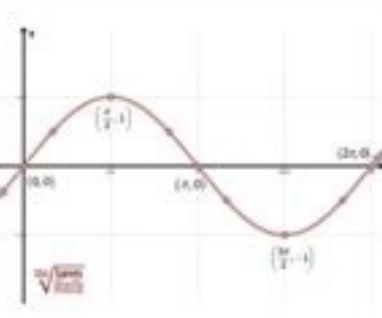
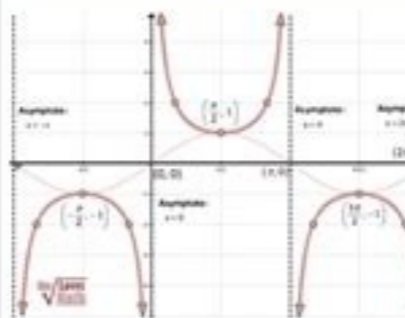
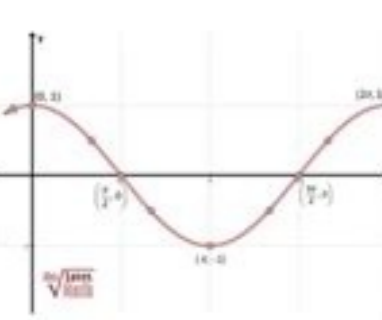
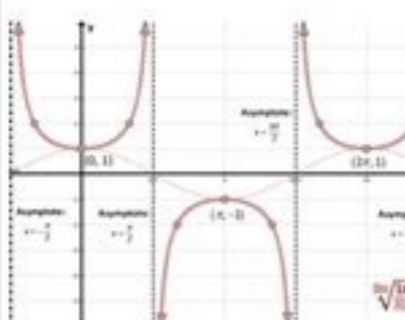
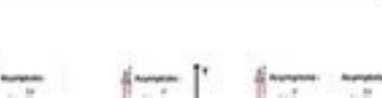

⑤ This problem was worded badly so please skip it

⑥    
 First find x  
 $\tan 15^\circ = \frac{x}{1500}$   
 $1500 \tan 15 = \frac{x}{1500} \cdot 1500$   
 $1500 \tan 15 = x$   
 Total Depth of Submersible  
 $TD = 1500 \tan 15 + 250$   
 $\approx 651.92$  feet  
 \* Notice NO rounded # in the middle of a problem

Name: \_\_\_\_\_ Score: \_\_\_\_\_  
 Teacher: \_\_\_\_\_ Date: \_\_\_\_\_

Trigonometric Ratios



Parent Function	Graph	Parent Function	Graph
$y = \sin(x)$ Odd Domain: $(-\infty, \infty)$ Range: $[-1, 1]$ Period: $2\pi$ Zeros: $(\pi k, 0)$ , $k \in \text{Integers}$		$y = \csc(x)$ Odd Domain: $x \neq \pi k$ Range: $(-\infty, -1] \cup [1, \infty)$ Asymptotes: $x = \pi k$ Period: $2\pi$ Zeros: None	
$y = \cos(x)$ Even Domain: $(-\infty, \infty)$ Range: $[-1, 1]$ Period: $2\pi$ Zeros: $(\frac{\pi}{2} + \pi k, 0)$		$y = \sec(x)$ Even Domain: $x \neq \frac{\pi}{2} + \pi k$ Range: $(-\infty, -1] \cup [1, \infty)$ Asymptotes: $x = \frac{\pi}{2} + \pi k$ Period: $2\pi$ Zeros: None	
$y = \tan(x)$ Odd		$y = \cot(x)$ Odd	

Trig Identities worksheet 3.4 name: \_\_\_\_\_

Prove each identity:

1.  $\sec x - \tan x \sin x = \frac{1}{\sec x}$

2.  $\frac{1 + \cos x}{\sin x} = \csc x + \cot x$

3.  $\frac{\sec \theta \sin \theta}{\tan \theta + \cot \theta} = \sin^2 \theta$

4.  $\frac{\sec \theta}{\cos \theta} - \frac{\tan \theta}{\cot \theta} = 1$

5.  $\cos^2 y - \sin^2 y = 1 - 2\sin^2 y$

6.  $\csc^2 \theta \tan^2 \theta - 1 = \tan^2 \theta$

7.  $\frac{\sec^2 \theta}{\sec^2 \theta - 1} = \csc^2 \theta$

8.  $\tan^2 x \sin^2 x = \tan^2 x - \sin^2 x$



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