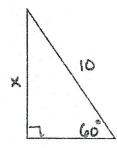
In general, radicals should be simplified and fractions should be reduced.

1. Given $sin\theta = \frac{12}{13}$, evaluate the other 5 trig functions. Cos0 = $\frac{12}{13}$

2. Show two different ways to find x in the triangle below. Explain how you found it.

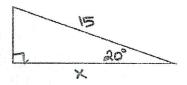


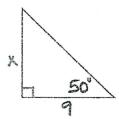
Method 1:

Method 2:

3. For the triangles below, which 2 sides are involved in solving for x? (Choices are hypotenuse, opposite and/or adjacent.) Which trig function would you choose to solve for x using the given information? Solve for x.

a.





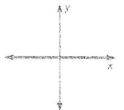
- 4. Find one positive and one negative coterminal angle for the angles given below. Then explain how you found them and why you did what you did.
 - a. 25°

b. $\frac{\pi}{7}$

- 5. a. Convert 50° to radians
 - b. Convert $\frac{7\pi}{10}$ to degrees.

- 6. Sketch the angles given below in standard position. Then find the reference angle, θ '.
 - a. $\theta = -460^{\circ}$

b. $\theta = \frac{7\pi}{6}$



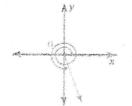




7. Given the terminal side of an angle in standard position passes through (-4, 2), find the six trig functions of the angle.

8. Determine whether the trig functions of the angle θ sketched below are positive, negative, zero, or undefined.

a.

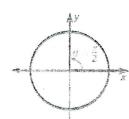


 $sin\theta$:

sA.

 $tan\theta$:

b.



 $sin\theta$:

 $\cos\theta$:

 $tan\theta$:

- 9. a. In your own words, where does the ordered pair $(\frac{\sqrt{3}}{2}, \frac{1}{2})$ come from for $\theta = \frac{\pi}{6}$?
 - b. What is the exact value of $\cos \frac{5\pi}{6}$?
- 10. If $\cos\theta = 0$, what is $\sec\theta$? Explain why.
- Π_{\bullet} : Use the graph to find the measure of θ . Explain your reasoning.

