

Convert to degrees or radians. Round to the nearest hundredth where necessary.

1) 2 radians

2) 82 degrees

Assume that θ is an acute angle in a right triangle satisfying the given conditions. Evaluate the remaining trigonometric functions.

3) $\sec \theta = \frac{17}{5}$

$\sin \theta = \underline{\hspace{2cm}}$	$\cos \theta = \underline{\hspace{2cm}}$	$\tan \theta = \underline{\hspace{2cm}}$
$\csc \theta = \underline{\hspace{2cm}}$	$\cot \theta = \underline{\hspace{2cm}}$	

Find the 6 trig functions for an angle whose terminal side contains the given point.

4) $(-5, -5)$

$\sin \theta = \underline{\hspace{2cm}}$	$\cos \theta = \underline{\hspace{2cm}}$	$\tan \theta = \underline{\hspace{2cm}}$
$\csc \theta = \underline{\hspace{2cm}}$	$\cot \theta = \underline{\hspace{2cm}}$	

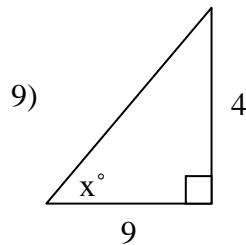
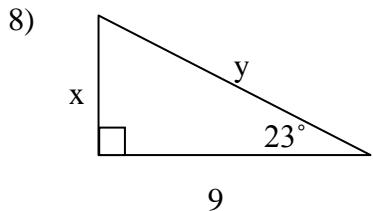
Identify in which quadrant the angle is located.

5) $\tan \theta > 0, \sin \theta < 0$

6) $\csc \theta > 0, \sec \theta > 0$

7) $\cot \theta < 0, \cos \theta < 0$

Solve for the variables shown.



- 10) Find a positive and negative angle that are coterminal with the angle $\theta = \frac{2\pi}{3}$.

NO Calculator. Find the trigonometric ratio.

$$11) \sin \frac{3\pi}{4}$$

$$12) \cos \frac{\pi}{2}$$

$$13) \sec \left(-\frac{7\pi}{6} \right)$$

$$14) \tan \pi$$

$$15) \sin \left(\frac{11\pi}{6} \right)$$

$$16) \cot \frac{5\pi}{4}$$

Solve the triangle. Then find the area of the triangle. Round to the nearest hundredth. If there are two triangles, you must solve each of them.

$$17) \Delta ABC, m\angle A = 48^\circ, b = 10, c = 4$$

$$18) \Delta DOG, m\angle D = 100^\circ, m\angle O = 24^\circ, d = 6$$

19) Δ CAT, $m\angle C = 40^\circ$, $a = 8$, $c = 4$

20) Δ HAT, $m\angle H = 50^\circ$, $a = 12$, $h = 10$

Find the bearing. Compass rose will be given.

21) NNW

22) SE

23) ENE