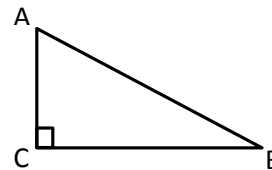


Trig Practice Quiz

- 1) Determine one positive and one negative angle co-terminal to -225° .
- 2) Determine one positive and one negative angle co-terminal to $\frac{5\pi}{8}$.
- 3) Change 320° to radians.
- 4) Change the radian measure $\frac{7\pi}{9}$ to degrees.
- 5) What is $\cos \theta$ for an angle θ in standard position whose terminal side contains the point $(8, 15)$?

Write a trig equation and solve to answer the following questions. Show all steps. Round to the nearest tenth.

- 6) Given $\angle B = 23^\circ$ and $b = 12 \text{ cm}$, find the length of AB.



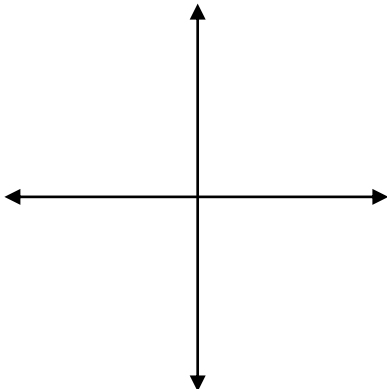
- 7) A ski slope at a mountain has an angle of elevation of 18° . The height of the slope is 1808 feet. How long is the ski slope? Draw a diagram.

Write a trig equation and solve to answer the following questions. Show all steps.

- 8) You are standing at the end of the shadow of a giant sequoia 150 feet from its base. The angle of elevation of the sun is 43° . How tall is the tree? Draw a diagram.
- 9) Round to the nearest degree. Find the value of x given: $\tan x = 0.3386$

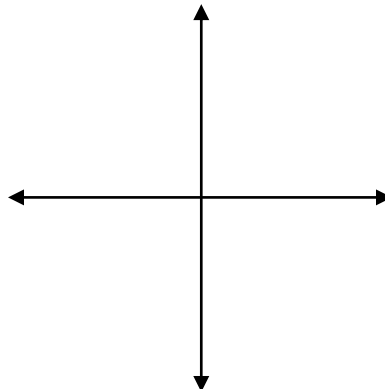
Draw an angle of rotation. State which quadrant the terminal ray lands. State the reference angle.

10) 400°



Leave answer in **degrees**.

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



Leave answer in **radians**.

12) Suppose θ is an acute angle of a right triangle. If θ is in Quadrant I and $\cos \theta = \frac{8}{17}$, find the values of the remaining five trig functions.

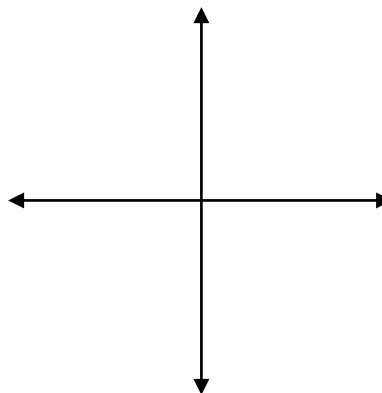
$\sin \theta =$ _____

$\tan \theta =$ _____

$\csc \theta =$ _____

$\sec \theta =$ _____

$\cot \theta =$ _____



Find the exact values of $\sin \theta$, $\cos \theta$, and $\tan \theta$ if the terminal side of θ in the standard position contains the given point. Draw and label a diagram.

13) $P(-9, -12)$

14) $P(-5, 0)$

$\sin \theta =$ _____

$\sin \theta =$ _____

$\cos \theta =$ _____

$\cos \theta =$ _____

$\tan \theta =$ _____

$\tan \theta =$ _____