

# 9A2 Evaluate Trig Ratios Practice

Kuta Software - Infinite Algebra 2

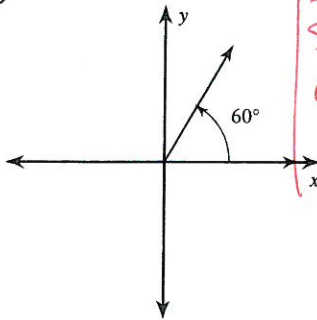
Name \_\_\_\_\_

## Exact Trig Values of Special Angles

Date \_\_\_\_\_ Period \_\_\_\_\_

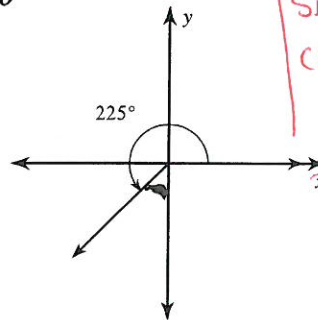
Find the exact value of each trigonometric function.

1)  $\tan \theta$



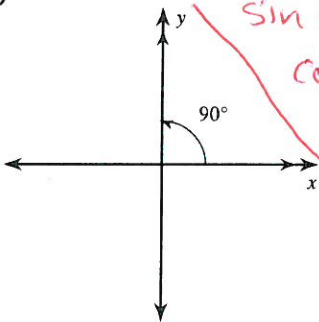
$$\begin{aligned}\sin \theta &= \frac{\sqrt{3}}{2} \\ \cos \theta &= \frac{1}{2} \\ \tan \theta &= \sqrt{3}\end{aligned}$$

2)  $\sin \theta$



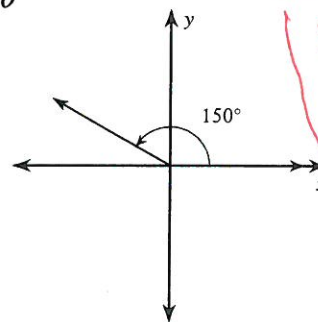
$$\begin{aligned}\sin \theta &= -\frac{\sqrt{2}}{2} \\ \cos \theta &= -\frac{\sqrt{2}}{2} \\ \tan \theta &= 1\end{aligned}$$

3)  $\sin \theta$



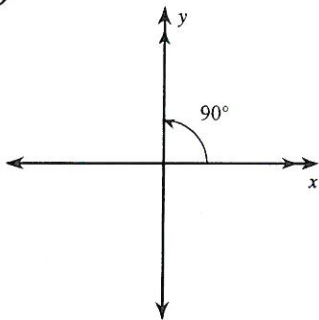
$$\begin{aligned}\sin \theta &= 1 \\ \cos \theta &= 0 \\ \tan \theta &= \text{und}\end{aligned}$$

4)  $\cos \theta$



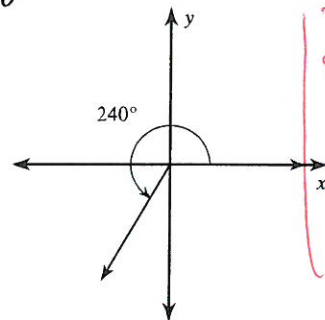
$$\begin{aligned}\sin \theta &= \frac{1}{2} \\ \cos \theta &= -\frac{\sqrt{3}}{2} \\ \tan \theta &= -\frac{\sqrt{3}}{3}\end{aligned}$$

5)  $\cos \theta$



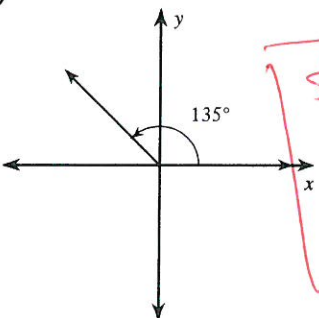
" "

6)  $\tan \theta$



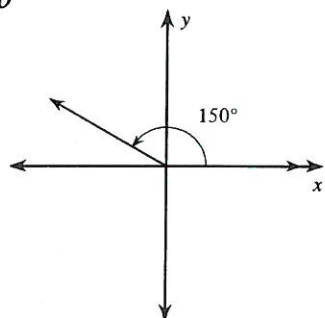
$$\begin{aligned}\sin \theta &= -\frac{\sqrt{3}}{2} \\ \cos \theta &= -\frac{1}{2} \\ \tan \theta &= \sqrt{3}\end{aligned}$$

7)  $\cos \theta$



$$\begin{aligned}\sin \theta &= \frac{\sqrt{2}}{2} \\ \cos \theta &= -\frac{\sqrt{2}}{2} \\ \tan \theta &= -1\end{aligned}$$

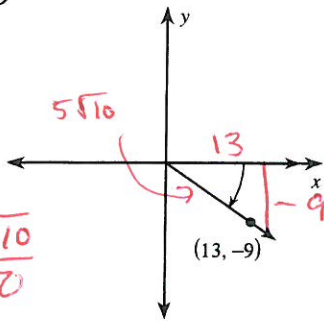
8)  $\tan \theta$



" "

# General Angles

17)  $\sec \theta$



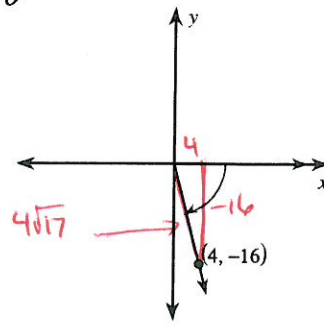
$$\sin \theta = \frac{-9\sqrt{10}}{50}$$

$$\cos \theta = \frac{13\sqrt{10}}{50}$$

$$\theta = 325.3^\circ$$

$$\tan \theta = -9/13$$

18)  $\sin \theta$



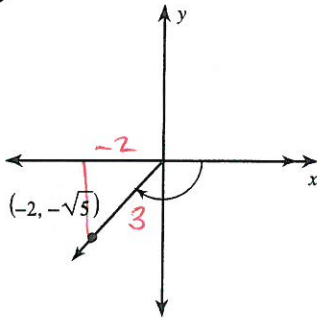
$$\sin \theta = \frac{-4\sqrt{17}}{17}$$

$$\cos \theta = \frac{\sqrt{17}}{17}$$

$$\tan \theta = -4$$

$$\theta = 284.04^\circ$$

19)  $\cos \theta$

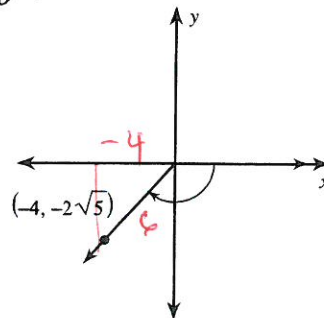


$$\sin \theta = -\sqrt{5}/3$$

$$\cos \theta = -2/3 \quad \theta = 228.19^\circ$$

$$\tan \theta = \sqrt{5}/2$$

20)  $\sin \theta$



$$\sin \theta = -\sqrt{5}/3$$

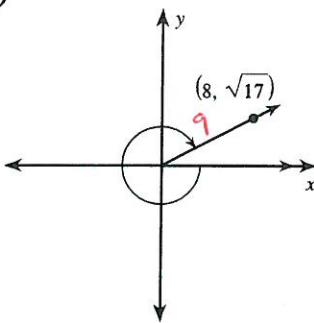
$$\cos \theta = -2/3$$

$$\tan \theta = \sqrt{5}/2$$

Whoa!

$$\theta = 228.19^\circ$$

21)  $\cos \theta$

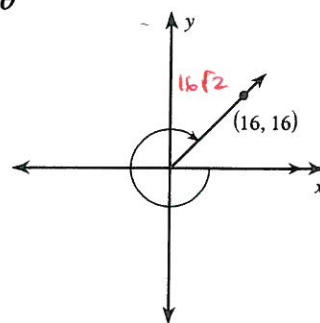


$$\sin \theta = \sqrt{17}/9$$

$$\cos \theta = 8/9 \quad \theta = 27.27^\circ$$

$$\tan \theta = \sqrt{17}/8$$

22)  $\cos \theta$



$$\sin \theta = \sqrt{2}/2$$

$$\cos \theta = \sqrt{2}/2 \quad \theta = 45^\circ$$

$$\tan \theta = 1$$