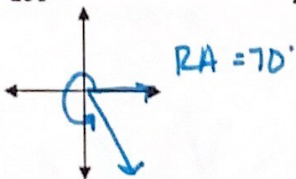


# Homework - Mini Review

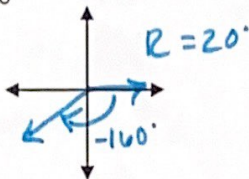
Name: Key

Sketch each angle and identify the reference angle.

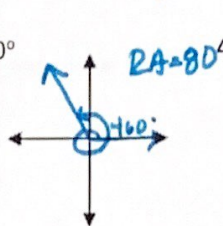
1.  $290^\circ$



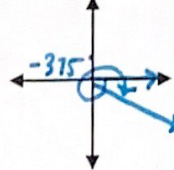
2.  $-160^\circ$



3.  $460^\circ$

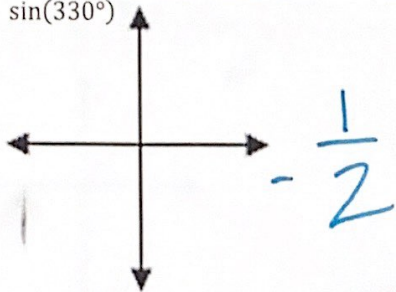


4.  $-375^\circ$

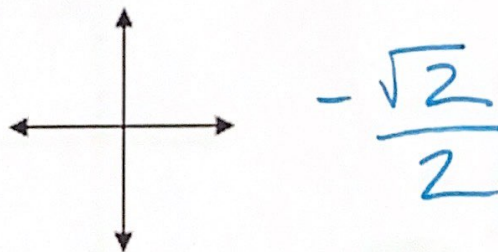


Find each indicated value.

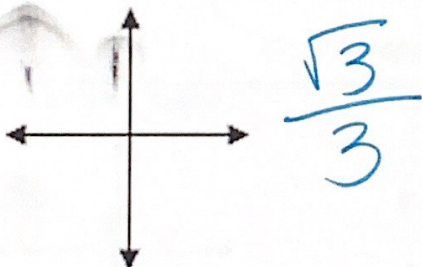
1.  $\sin(330^\circ)$



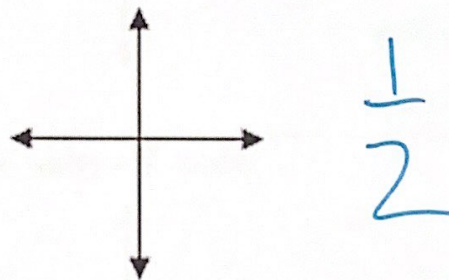
2.  $\cos(135^\circ)$



3.  $\tan(570^\circ)$



4.  $\cos(-240^\circ)$

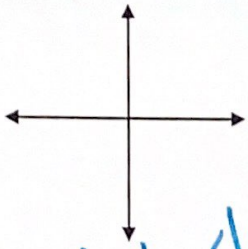


Must Show ALL

Work !!

No Work = No Credit

5.  $(3, -3\sqrt{3})$



$$\theta' = 60^\circ$$

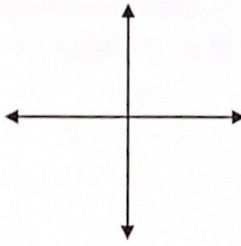
$$\theta = 300^\circ$$

$$\sin(\theta) = \frac{-\sqrt{3}}{2}$$

$$\cos(\theta) = \frac{1}{2}$$

Work

6.  $(2, 2)$



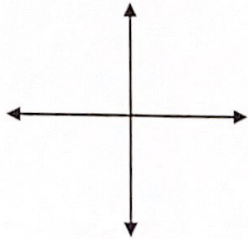
$$\theta' = 45^\circ$$

$$\theta = 45^\circ$$

$$\cos(\theta) = \frac{\sqrt{2}}{2}$$

$$\tan(\theta) = 1$$

7.  $(-7\sqrt{3}, 7)$



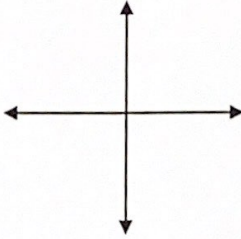
$$\theta' = 30^\circ$$

$$\theta = 150^\circ$$

$$\sin(\theta) = \frac{1}{2}$$

$$\tan(\theta) = \frac{-\sqrt{3}}{3}$$

8.  $(-6, 6)$



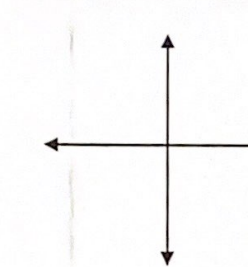
$$\theta' = 45^\circ$$

$$\theta = 135^\circ$$

$$\cos(\theta) = \frac{-\sqrt{2}}{2}$$

$$\tan(\theta) = -1$$

9.  $(12, 5)$



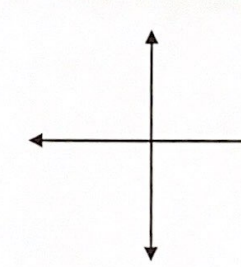
$$\theta' = 23^\circ$$

$$\theta = 23^\circ$$

$$\sin(\theta) = \frac{5}{13}$$

$$\cos(\theta) = \frac{12}{13}$$

10.  $(7, -24)$



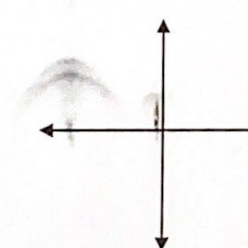
$$\theta' = 74^\circ$$

$$\theta = 286^\circ$$

$$\sin(\theta) = \frac{-24}{25}$$

$$\tan(\theta) = \frac{-24}{7}$$

11.  $\tan(\theta) = 1$  Quad I



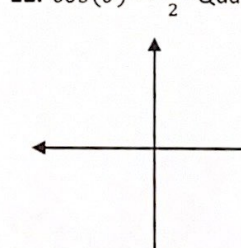
$$\theta' = 45^\circ$$

$$\theta = 45^\circ$$

$$\sin(\theta) = \frac{\sqrt{2}}{2}$$

$$\cos(\theta) = \frac{\sqrt{2}}{2}$$

12.  $\cos(\theta) = \frac{\sqrt{3}}{2}$  Quad IV



$$\theta' = 30^\circ$$

$$\theta = 330^\circ$$

$$\sin(\theta) = \frac{-1}{2}$$

$$\tan(\theta) = \frac{-\sqrt{3}}{3}$$

Trig, Pyth. thm + Special Right  $\Delta$   
 Must show work  
 for each!

Using the information given, find the missing trig ratios and the reference angle.

1.  $\sin(\theta) = -\frac{1}{2}$ , Quadrant IV

$$\begin{aligned}\theta' &= \underline{30^\circ} \\ \theta &= \underline{330^\circ} \\ \cos(\theta) &= \underline{\frac{\sqrt{3}}{2}} \\ \tan(\theta) &= \underline{-\frac{\sqrt{3}}{2}}\end{aligned}$$

2.  $\cos(\theta) = -\frac{1}{2}$ , Quadrant II

$$\begin{aligned}\theta' &= \underline{60^\circ} \\ \theta &= \underline{120^\circ} \\ \sin(\theta) &= \underline{\frac{\sqrt{3}}{2}} \\ \tan(\theta) &= \underline{-\sqrt{3}}\end{aligned}$$

3.  $\tan(\theta) = \frac{\sqrt{3}}{3}$ , Quadrant III

$$\begin{aligned}\theta' &= \underline{30^\circ} \\ \theta &= \underline{210^\circ} \\ \sin(\theta) &= \underline{-\frac{1}{2}} \\ \cos(\theta) &= \underline{-\frac{\sqrt{3}}{2}}\end{aligned}$$

4.  $\cos(\theta) = \frac{\sqrt{2}}{2}$ , Quadrant I

$$\begin{aligned}\theta' &= \underline{45^\circ} \\ \theta &= \underline{45^\circ} \\ \sin(\theta) &= \underline{\frac{\sqrt{2}}{2}} \\ \tan(\theta) &= \underline{1}\end{aligned}$$

Must Show  
all  
work + Graphs

