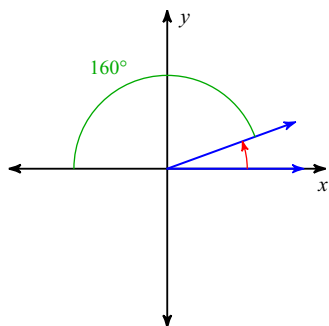


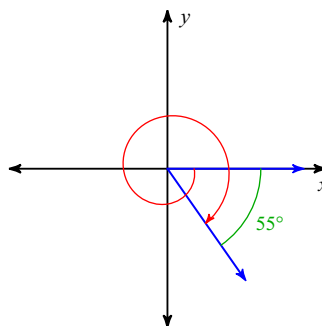
# Intro to Trig Review

**Find the measure of each angle.**

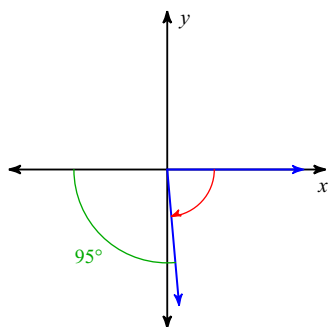
1)



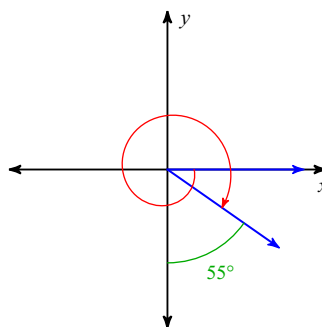
2)



3)

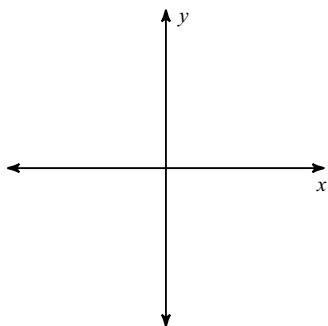


4)

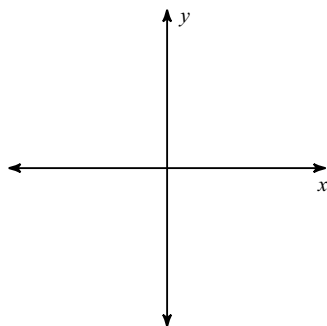


**Draw an angle with the given measure in standard position.**

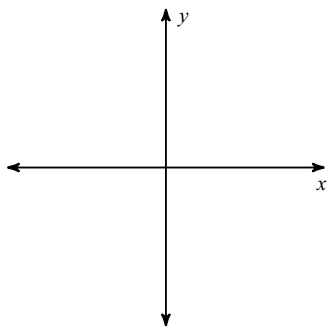
5)  $225^\circ$



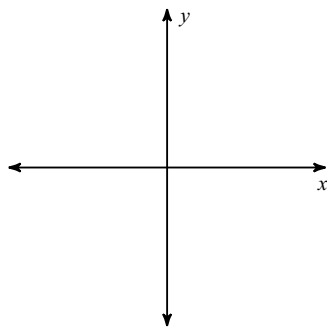
6)  $-30^\circ$



7)  $-225^\circ$

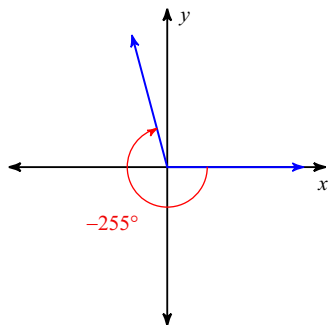


8)  $-90^\circ$

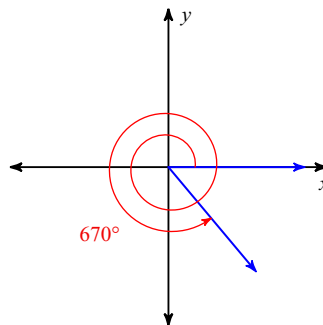


Find the reference angle.

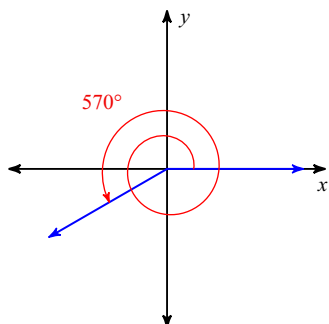
9)



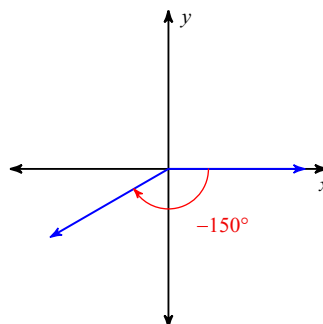
10)



11)



12)



Convert each degree measure into radians and each radian measure into degrees.

13)  $\frac{3\pi}{4}$

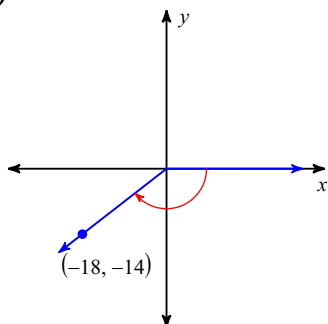
14)  $145^\circ$

15)  $\frac{3\pi}{2}$

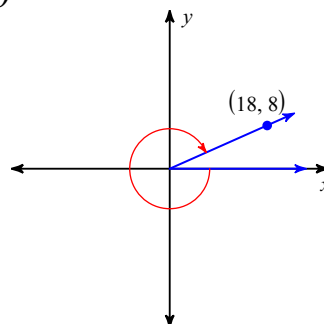
16)  $\frac{4\pi}{3}$

Use the given point on the terminal side of angle  $\theta$  to find the value of the trigonometric function indicated.

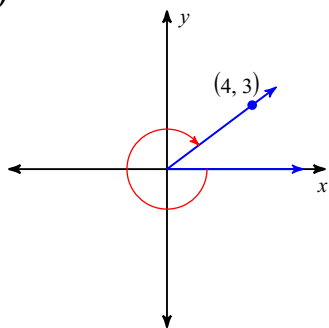
17)  $\cot \theta$



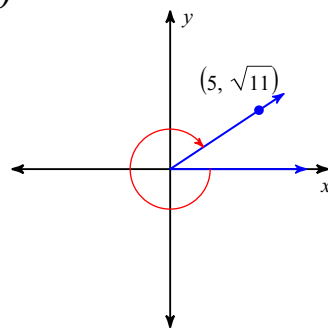
18)  $\cot \theta$



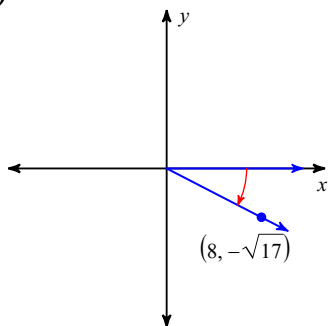
19)  $\cos \theta$



20)  $\cos \theta$



21)  $\sin \theta$



**Find the exact values of the five trigonometric ratios not given.**

22)  $\cot \theta = \frac{12}{5}$  and  $\cos \theta < 0$

23)  $\sin \theta = \frac{3}{5}$  and  $\cos \theta < 0$

24)  $\csc \theta = \frac{5}{3}$  and  $\cos \theta < 0$

25)  $\tan \theta = \frac{5}{12}$  and  $\sin \theta < 0$

26)  $\csc \theta = -\frac{3\sqrt{7}}{7}$  and  $\cos \theta < 0$

**Find the exact value of each trigonometric function.**

27)  $\sin \frac{11\pi}{2}$

28)  $\csc -\frac{13\pi}{4}$

29)  $\cos \frac{11\pi}{6}$

30)  $\cot -3\pi$

31)  $\tan \frac{9\pi}{4}$

32)  $\tan \frac{5\pi}{6}$

33)  $\cot -\frac{2\pi}{3}$

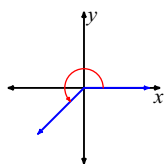
34)  $\sec \frac{16\pi}{3}$

35)  $\cot \frac{5\pi}{2}$

36)  $\cos -\frac{13\pi}{3}$

## Answers to Intro to Trig Review

1)  $20^\circ$   
5)



9)  $75^\circ$   
13)  $135^\circ$

17)  $\frac{9}{7}$

21)  $-\frac{\sqrt{17}}{9}$

23)  $\cos \theta = -\frac{4}{5}, \tan \theta = -\frac{3}{4}$

$\csc \theta = \frac{5}{3}, \sec \theta = -\frac{5}{4}, \cot \theta = -\frac{4}{3}$

25)  $\sin \theta = -\frac{5}{13}, \cos \theta = -\frac{12}{13}$

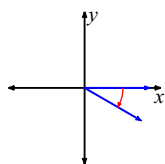
$\csc \theta = -\frac{13}{5}, \sec \theta = -\frac{13}{12}, \cot \theta = \frac{12}{5}$

27)  $-1$

31)  $1$

35)  $0$

2)  $-415^\circ$   
6)



10)  $50^\circ$   
14)  $\frac{29\pi}{36}$

18)  $\frac{9}{4}$

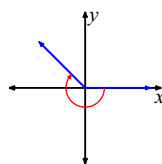
22)  $\sin \theta = -\frac{5}{13}, \cos \theta = -\frac{12}{13}, \tan \theta = \frac{5}{12}$   
 $\csc \theta = -\frac{13}{5}, \sec \theta = -\frac{13}{12}$

28)  $\sqrt{2}$

32)  $-\frac{\sqrt{3}}{3}$

36)  $\frac{1}{2}$

3)  $-85^\circ$   
7)



11)  $30^\circ$   
15)  $270^\circ$

19)  $\frac{4}{5}$

24)  $\sin \theta = \frac{3}{5}, \cos \theta = -\frac{4}{5}, \tan \theta = -\frac{3}{4}$

$\sec \theta = -\frac{5}{4}, \cot \theta = -\frac{4}{3}$

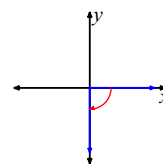
26)  $\sin \theta = -\frac{\sqrt{7}}{3}, \cos \theta = -\frac{\sqrt{2}}{3}, \tan \theta = \frac{\sqrt{14}}{2}$

$\sec \theta = -\frac{3\sqrt{2}}{2}, \cot \theta = \frac{\sqrt{14}}{7}$

29)  $\frac{\sqrt{3}}{2}$

33)  $\frac{\sqrt{3}}{3}$

4)  $-395^\circ$   
8)



12)  $30^\circ$   
16)  $240^\circ$

20)  $\frac{5}{6}$

24)  $\sin \theta = \frac{3}{5}, \cos \theta = -\frac{4}{5}, \tan \theta = -\frac{3}{4}$

$\sec \theta = -\frac{5}{4}, \cot \theta = -\frac{4}{3}$

26)  $\sin \theta = -\frac{\sqrt{7}}{3}, \cos \theta = -\frac{\sqrt{2}}{3}, \tan \theta = \frac{\sqrt{14}}{2}$

$\sec \theta = -\frac{3\sqrt{2}}{2}, \cot \theta = \frac{\sqrt{14}}{7}$

30) Undefined

34)  $-2$