

## Trig Ratios of General Angles

Use a calculator to find each. Round your answers to the nearest ten-thousandth (4 decimal places).

1)  $\cos 101^\circ$

2)  $\cos 310^\circ$

3)  $\sin 105^\circ$

4)  $\sin -305^\circ$

5)  $\sin -228^\circ$

6)  $\sin -120^\circ$

7)  $\cos -70^\circ$

8)  $\cos 140^\circ$

Find the exact value of each trigonometric function. Some may be undefined.

9)  $\tan \frac{2\pi}{3}$

10)  $\sec -\frac{3\pi}{4}$

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

12)  $\cot \frac{5\pi}{3}$

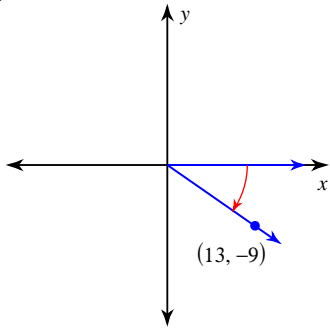
13)  $\csc -\frac{\pi}{2}$

14)  $\tan -\frac{3\pi}{2}$

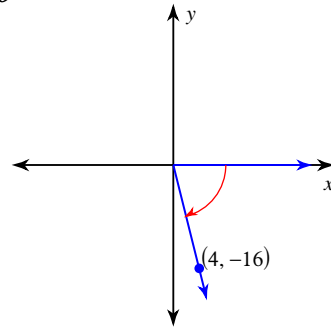
15)  $\sec 0$

16)  $\tan -\frac{7\pi}{4}$

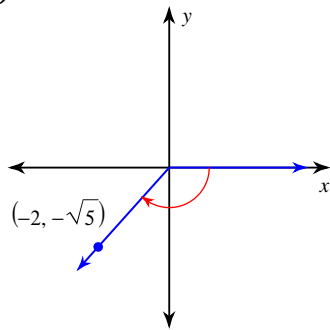
17)  $\sec \theta$



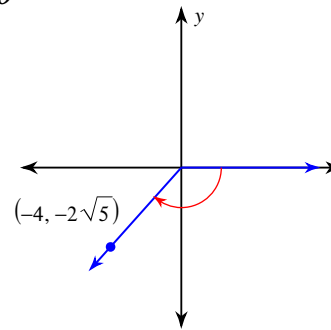
18)  $\sin \theta$



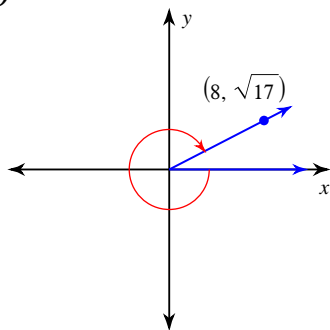
19)  $\cos \theta$



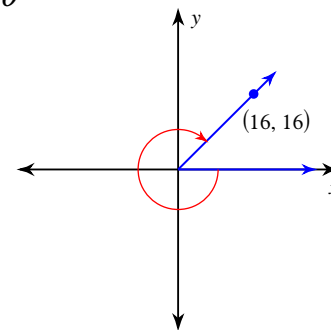
20)  $\sin \theta$



21)  $\cos \theta$



22)  $\cos \theta$



## Trig Ratios of General Angles

Use a calculator to find each. Round your answers to the nearest ten-thousandth.

1)  $\cos 101^\circ$

$-0.1908$

2)  $\cos 310^\circ$

$0.6428$

3)  $\sin 105^\circ$

$0.9659$

4)  $\sin -305^\circ$

$0.8192$

5)  $\sin -228^\circ$

$0.7431$

6)  $\sin -120^\circ$

$-0.8660$

7)  $\cos -70^\circ$

$0.3420$

8)  $\cos 140^\circ$

$-0.7660$

Find the exact value of each trigonometric function. Some may be undefined.

9)  $\tan \frac{2\pi}{3}$

$-\sqrt{3}$

10)  $\sec -\frac{3\pi}{4}$

$-\sqrt{2}$

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

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

12)  $\cot \frac{5\pi}{3}$

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

13)  $\csc -\frac{\pi}{2}$

$-1$

14)  $\tan -\frac{3\pi}{2}$

Undefined

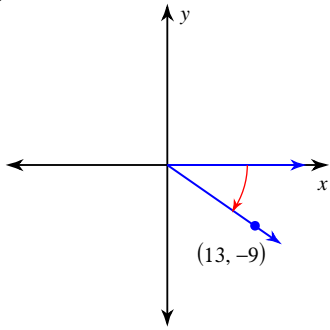
15)  $\sec 0$

$1$

16)  $\tan -\frac{7\pi}{4}$

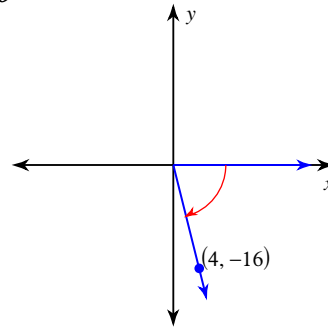
$1$

17)  $\sec \theta$



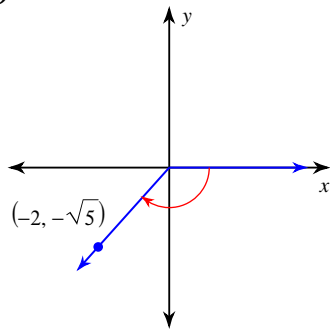
$$\frac{5\sqrt{10}}{13}$$

18)  $\sin \theta$



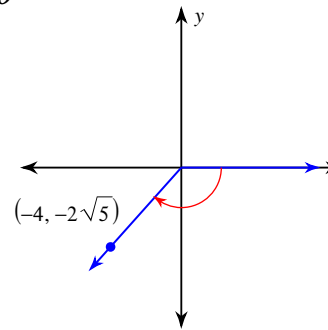
$$-\frac{4\sqrt{17}}{17}$$

19)  $\cos \theta$



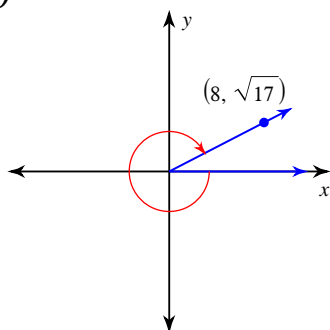
$$-\frac{2}{3}$$

20)  $\sin \theta$



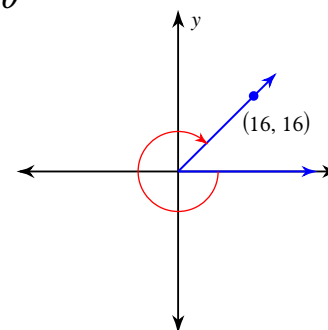
$$-\frac{\sqrt{5}}{3}$$

21)  $\cos \theta$



$$\frac{8}{9}$$

22)  $\cos \theta$



$$\frac{\sqrt{2}}{2}$$