

Trig Ratios of General Angles

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

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

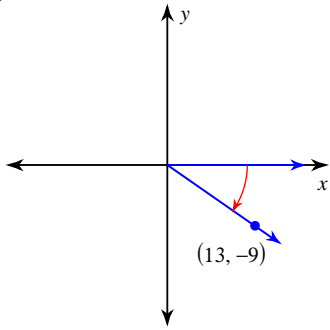
13) $\csc -\frac{\pi}{2}$

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

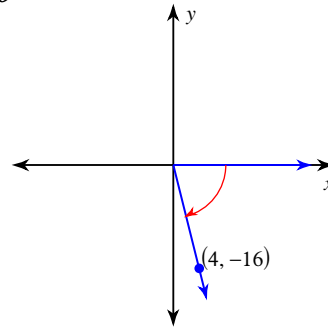
15) $\sec 0$

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

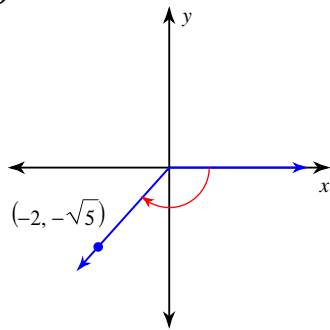
17) $\sec \theta$



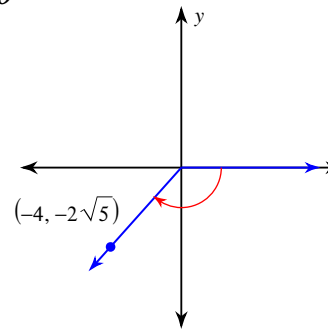
18) $\sin \theta$



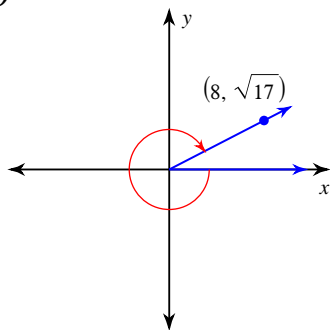
19) $\cos \theta$



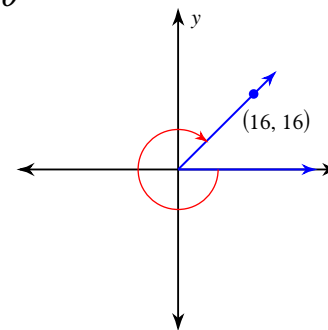
20) $\sin \theta$



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

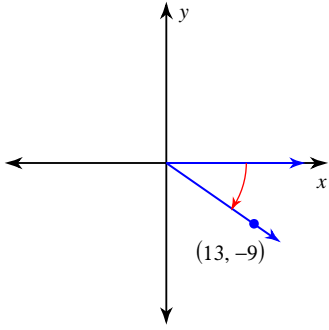
15) $\sec 0$

 1

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

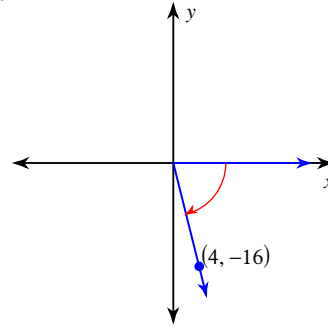
 1

17) $\sec \theta$



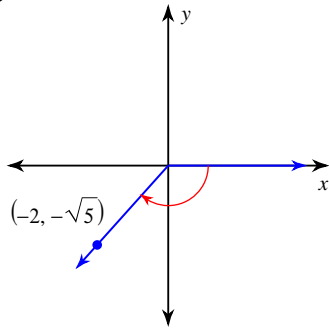
$$\frac{5\sqrt{10}}{13}$$

18) $\sin \theta$



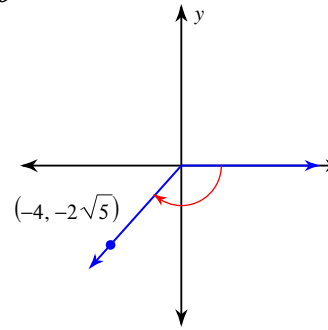
$$-\frac{4\sqrt{17}}{17}$$

19) $\cos \theta$



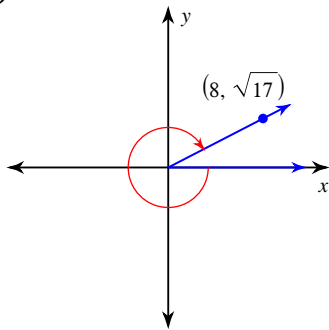
$$-\frac{2}{3}$$

20) $\sin \theta$



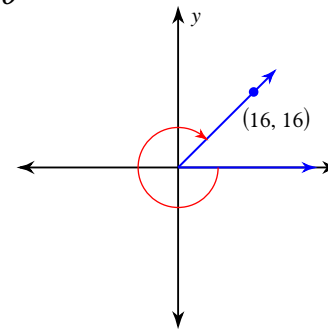
$$-\frac{\sqrt{5}}{3}$$

21) $\cos \theta$



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

22) $\cos \theta$



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