

Trig Ratios of General Angles

Date _____ Period _____

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

10) $\sin -\frac{11\pi}{6}$

11) $\csc \frac{5\pi}{3}$

12) $\sec 0$

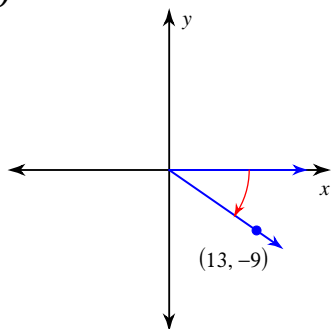
13) $\tan -\frac{5\pi}{4}$

14) $\sec -120^\circ$

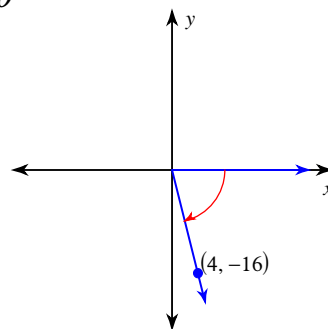
15) $\csc -315^\circ$

16) $\csc 0$

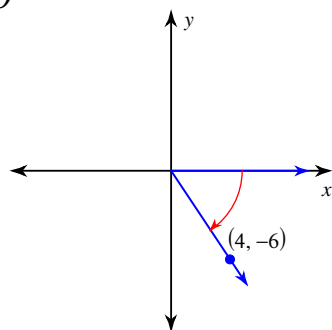
17) $\sec \theta$



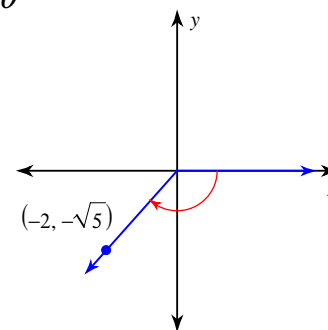
18) $\sin \theta$



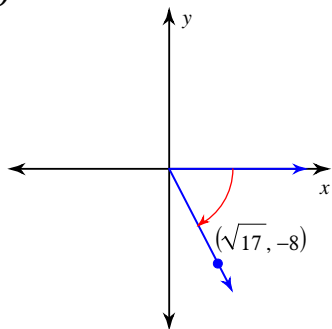
19) $\cos \theta$



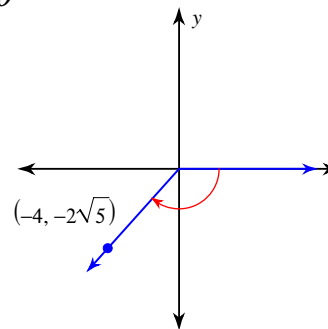
20) $\cos \theta$



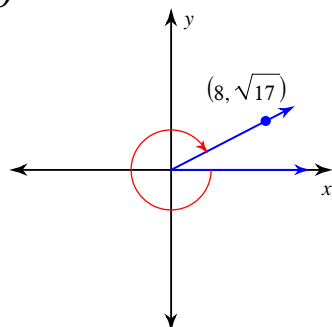
21) $\csc \theta$



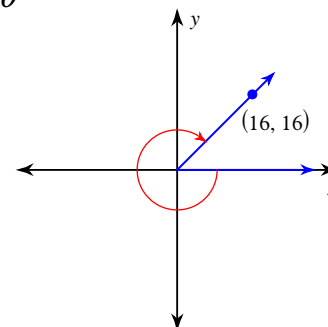
22) $\sin \theta$



23) $\cos \theta$



24) $\cos \theta$



Trig Ratios of General Angles

Date _____ Period _____

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

10) $\sin -\frac{11\pi}{6}$
 $\frac{1}{2}$

11) $\csc \frac{5\pi}{3}$
 $-\frac{2\sqrt{3}}{3}$

12) $\sec 0$
 1

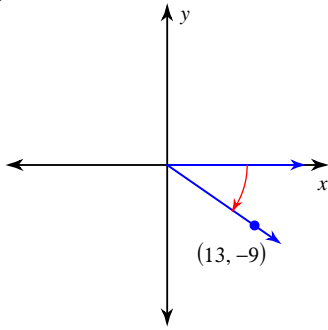
13) $\tan -\frac{5\pi}{4}$
 -1

14) $\sec -120^\circ$
 -2

15) $\csc -315^\circ$
 $\sqrt{2}$

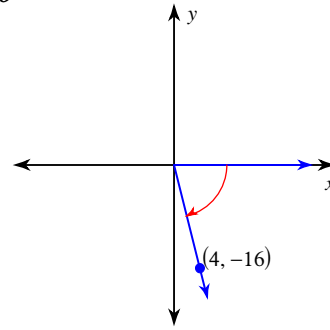
16) $\csc 0$
Undefined

17) $\sec \theta$



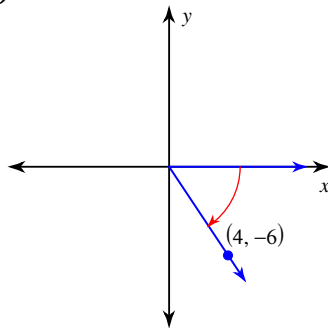
$$\frac{5\sqrt{10}}{13}$$

18) $\sin \theta$



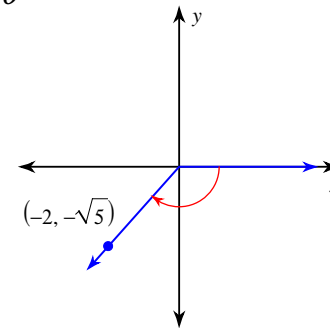
$$-\frac{4\sqrt{17}}{17}$$

19) $\cos \theta$



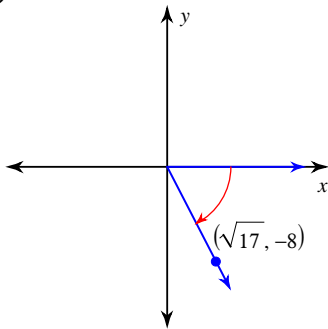
$$\frac{2\sqrt{13}}{13}$$

20) $\cos \theta$



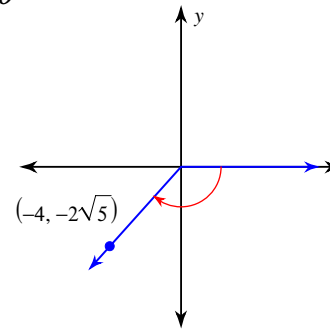
$$-\frac{2}{3}$$

21) $\csc \theta$



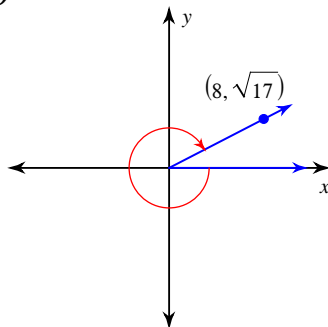
$$-\frac{9}{8}$$

22) $\sin \theta$



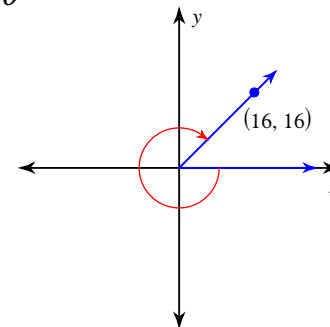
$$-\frac{\sqrt{5}}{3}$$

23) $\cos \theta$



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

24) $\cos \theta$



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