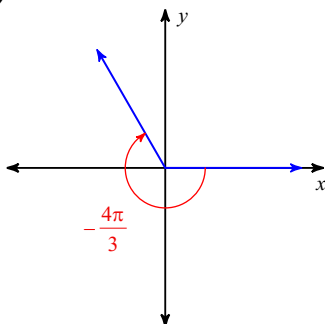


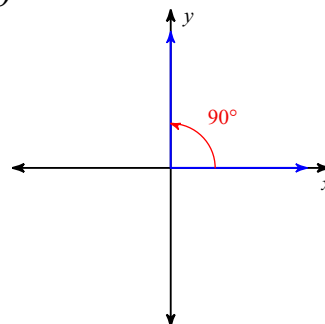
Unit Circle & Special Right Triangles

Find the exact value of each trigonometric function.

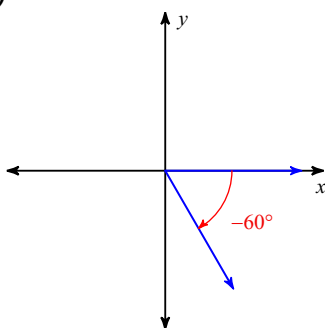
1) $\csc \theta$



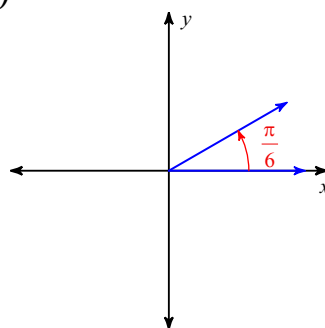
2) $\cot \theta$



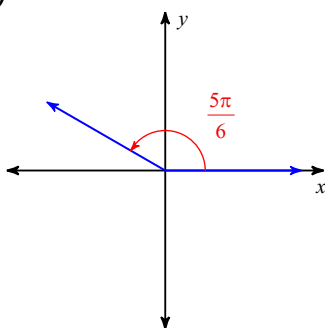
3) $\csc \theta$



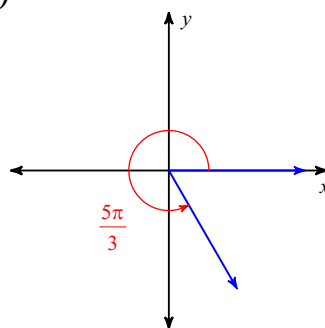
4) $\sin \theta$



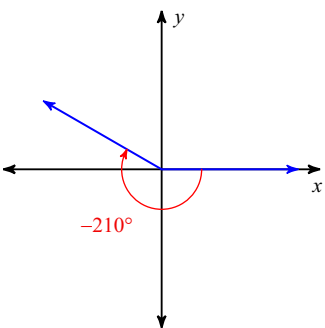
5) $\csc \theta$



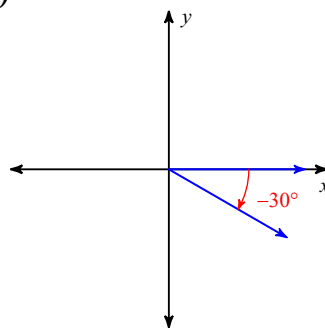
6) $\sin \theta$



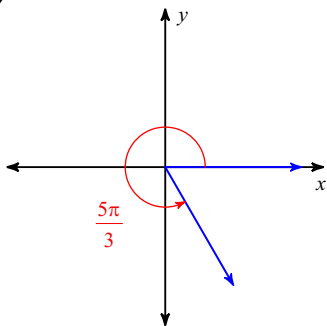
7) $\sin \theta$



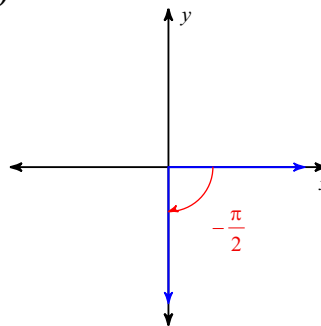
8) $\sin \theta$



9) $\sec \theta$



10) $\sec \theta$



11) $\sec 0^\circ$

12) $\sec -\frac{7\pi}{4}$

13) $\sec \frac{7\pi}{4}$

14) $\tan \frac{5\pi}{3}$

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

16) $\csc 135^\circ$

17) $\sec -210^\circ$

18) $\tan -\frac{\pi}{6}$

19) Find all angles (in radians) θ on the unit circle that satisfy the expression $\sin \theta = -\sqrt{3}/2$

20) Find all angles (in radians) θ on the unit circle that satisfy the expression $\csc \theta = \sqrt{2}$

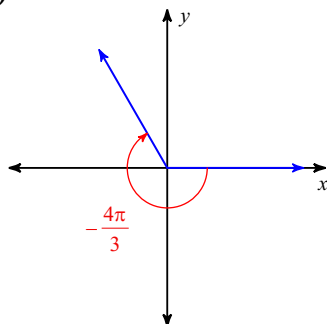
21) Find all angles (in radians) θ on the unit circle that satisfy the expression $\tan \theta = \sqrt{3}$

22) Find all angles (in radians) θ on the unit circle that satisfy the expression $\sec \theta = \text{undefined}$

Unit Circle & Special Right Triangles

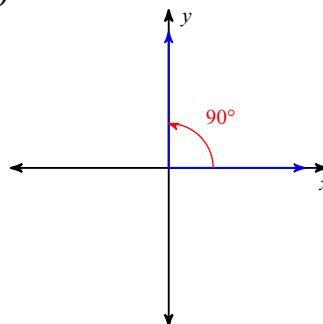
Find the exact value of each trigonometric function.

1) $\csc \theta$



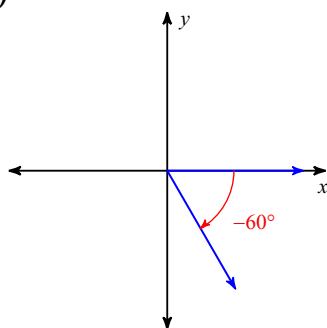
$$\frac{2\sqrt{3}}{3}$$

2) $\cot \theta$



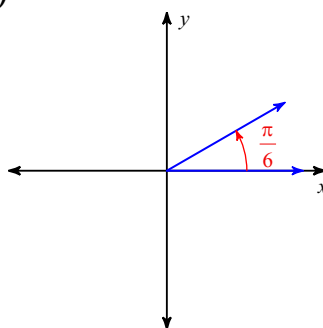
$$0$$

3) $\csc \theta$



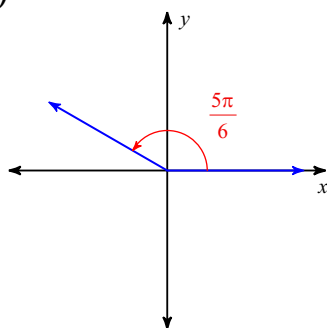
$$-\frac{2\sqrt{3}}{3}$$

4) $\sin \theta$



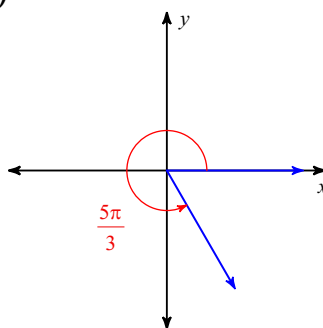
$$\frac{1}{2}$$

5) $\csc \theta$



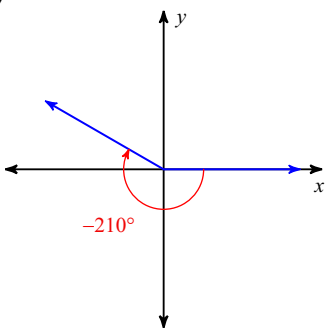
$$2$$

6) $\sin \theta$



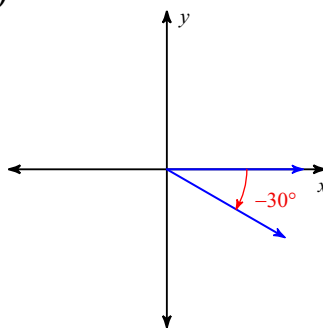
$$-\frac{\sqrt{3}}{2}$$

7) $\sin \theta$



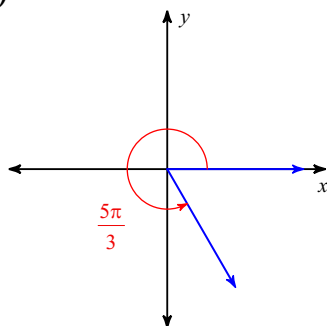
$$\frac{1}{2}$$

8) $\sin \theta$



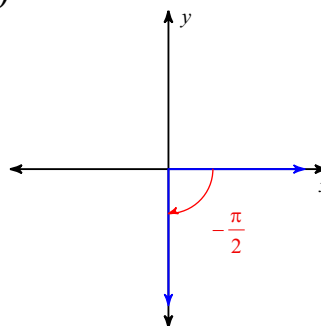
$$-\frac{1}{2}$$

9) $\sec \theta$



2

10) $\sec \theta$



Undefined

11) $\sec 0^\circ$

1

12) $\sec -\frac{7\pi}{4}$

$\sqrt{2}$

13) $\sec \frac{7\pi}{4}$

$\sqrt{2}$

14) $\tan \frac{5\pi}{3}$

$-\sqrt{3}$

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

1

16) $\csc 135^\circ$

$\sqrt{2}$

17) $\sec -210^\circ$

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

18) $\tan -\frac{\pi}{6}$

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

19) Find all angles (in radians) θ on the unit circle that satisfy the expression $\sin \theta = -\sqrt{3}/2$

$4\pi/3, 5\pi/3$

20) Find all angles (in radians) θ on the unit circle that satisfy the expression $\csc \theta = \sqrt{2}$

$\pi/4, 3\pi/4$

21) Find all angles (in radians) θ on the unit circle that satisfy the expression $\tan \theta = \sqrt{3}$

$\pi/6, 7\pi/6$

22) Find all angles (in radians) θ on the unit circle that satisfy the expression $\sec \theta = \text{undefined}$ $\pi/2, 3\pi/2$