

Periodicity

Find the exact value of each trigonometric function.

1) $\tan 135^\circ$

2) $\tan -4\pi$

3) $\cos -930^\circ$

4) $\cos 45^\circ$

5) $\tan -\frac{7\pi}{6}$

6) $\cos \frac{31\pi}{6}$

7) $\sin -\frac{19\pi}{6}$

8) $\tan 810^\circ$

9) $\sin -\frac{31\pi}{6}$

10) $\sin 660^\circ$

11) $\sin \frac{31\pi}{6}$

12) $\sin -930^\circ$

13) $\sin 3\pi$

14) $\cos -870^\circ$

15) $\tan -180^\circ$

16) $\sin -390^\circ$

Periodicity

Find the exact value of each trigonometric function.

1) $\tan 135^\circ$

$$-1$$

2) $\tan -4\pi$

$$0$$

3) $\cos -930^\circ$

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

4) $\cos 45^\circ$

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

5) $\tan -\frac{7\pi}{6}$

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

6) $\cos \frac{31\pi}{6}$

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

7) $\sin -\frac{19\pi}{6}$

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

8) $\tan 810^\circ$

Undefined

9) $\sin -\frac{31\pi}{6}$

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

10) $\sin 660^\circ$

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

11) $\sin \frac{31\pi}{6}$

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

12) $\sin -930^\circ$

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

13) $\sin 3\pi$

$$0$$

14) $\cos -870^\circ$

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

15) $\tan -180^\circ$

$$0$$

16) $\sin -390^\circ$

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