

Trig Functions - Radians

Find the exact value for each trigonometric function.

1) $\tan \frac{\pi}{3} = \sqrt{3}$	2) $\cos \frac{\pi}{4} = \frac{1}{\sqrt{2}} \text{ or } \frac{\sqrt{2}}{2}$	3) $\sin \frac{\pi}{6} = \frac{1}{2}$
4) $\cos \frac{\pi}{2} = 0$	5) $\tan \frac{\pi}{4} = 1$	6) $\sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$
7) $\cot \frac{\pi}{2} = 0$	8) $\csc \frac{-7\pi}{3} = -\frac{2}{\sqrt{3}} \text{ or } -\frac{2\sqrt{3}}{3}$	9) $\sec \frac{-3\pi}{4} = -\sqrt{2}$
10) $\tan \frac{-9\pi}{2} = \text{undefined}$	11) $\cot \frac{23\pi}{6} = -\sqrt{3}$	12) $\sec \frac{-10\pi}{3} = -2$
13) $\sec \frac{-23\pi}{6} = \frac{2}{\sqrt{3}} \text{ or } \frac{2\sqrt{3}}{3}$	14) $\csc \frac{-\pi}{4} = -\sqrt{2}$	15) $\cos \frac{13\pi}{3} = \frac{1}{2}$
16) $\cot -\pi = \text{undefined}$	17) $\cos -\frac{7\pi}{4} = \frac{1}{\sqrt{2}} \text{ or } \frac{\sqrt{2}}{2}$	18) $\sec \frac{-5\pi}{2} = \text{undefined}$
19) $\sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$	20) $\csc \frac{10\pi}{3} = -\frac{2}{\sqrt{3}} \text{ or } -\frac{2\sqrt{3}}{3}$	21) $\tan \frac{21\pi}{4} = 1$
22) $\tan \frac{13\pi}{6} = \frac{1}{\sqrt{3}} \text{ or } \frac{\sqrt{3}}{3}$	23) $\sin \frac{-25\pi}{6} = -\frac{1}{2}$	24) $\sec 3\pi = -1$
25) $\csc \frac{4\pi}{3} = -\frac{2}{\sqrt{3}} \text{ or } -\frac{2\sqrt{3}}{3}$	26) $\cos \frac{3\pi}{4} = -\frac{\sqrt{2}}{2}$	27) $\csc \frac{14\pi}{3} = \frac{2}{\sqrt{3}} \text{ or } \frac{2\sqrt{3}}{3}$
28) $\cos \frac{-8\pi}{3} = \frac{1}{2}$	29) $\tan 4\pi = 0$	30) $\sec \frac{-5\pi}{6} = -\frac{2}{\sqrt{3}} \text{ or } -\frac{2\sqrt{3}}{3}$