

Trig exercises: All Trig Functions and All Angles

[1 – 10] Determine the quadrant in which the terminal side of the angle lies.

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|-----------------------|------------------------|------------------|-----------------|--------------------|
| [1] $\frac{5\pi}{3}$ | [2] $-\frac{5\pi}{3}$ | [3] -500° | [4] 500° | [5] -1000° |
| [6] $\frac{15\pi}{4}$ | [7] $-\frac{15\pi}{4}$ | [8] -440° | [9] 440° | [10] -2000° |

[11- 35] Evaluate each expression, or write *dne*.

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|---------------------------|---|---------------------------|---|----------------------------|
| [11] $\sin \frac{\pi}{4}$ | [12] $\cos 60^\circ$ | [13] $\tan \frac{\pi}{2}$ | [14] $\cot 120$ | [15] $\sec \frac{3\pi}{4}$ |
| [16] $\csc 180^\circ$ | [17] $\sin \frac{7\pi}{6}$ | [18] $\cos 225^\circ$ | [19] $\tan 240^\circ$ | [20] $\cot \frac{3\pi}{2}$ |
| [21] $\sec 300^\circ$ | [22] $\csc \frac{7\pi}{4}$ | [23] $\sin 330^\circ$ | [24] $\cos 2\pi$ | [25] $\tan 30^\circ$ |
| [26] $\cot(-30^\circ)$ | [27] $\sec\left(-\frac{\pi}{4}\right)$ | [28] $\csc(-60^\circ)$ | [29] $\sin\left(-\frac{\pi}{2}\right)$ | [30] $\cos(-120^\circ)$ |
| [31] $\tan(-135^\circ)$ | [32] $\cot\left(-\frac{2\pi}{3}\right)$ | [33] $\sec(-180^\circ)$ | [34] $\csc\left(-\frac{7\pi}{6}\right)$ | [35] $\sin(-225^\circ)$ |