

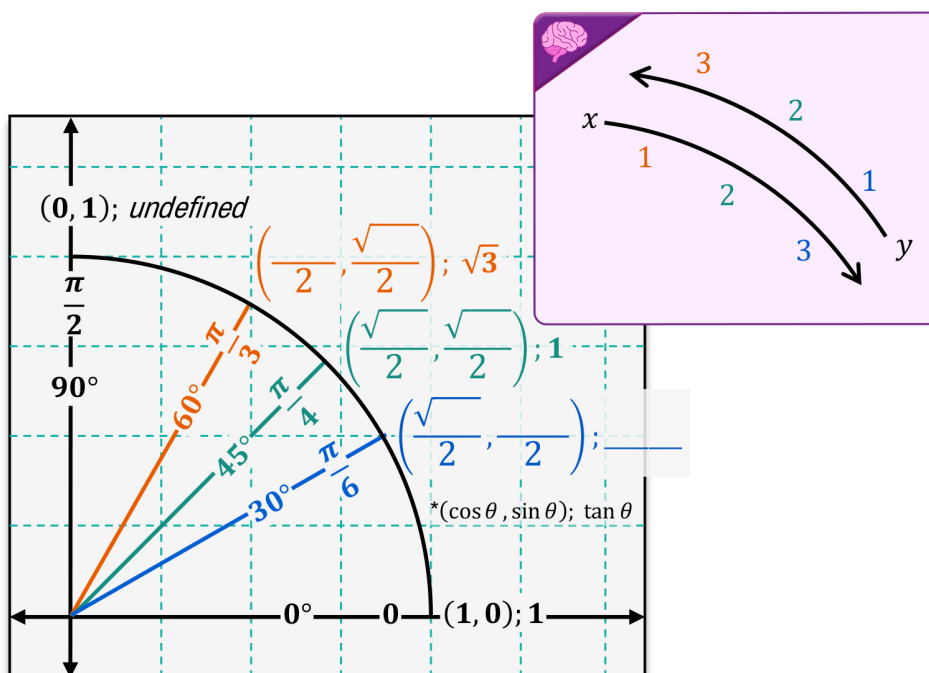
TOPIC: COMMON VALUES OF SINE, COSINE, & TANGENT

Sine, Cosine, & Tangent of 30° , 45° , & 60°

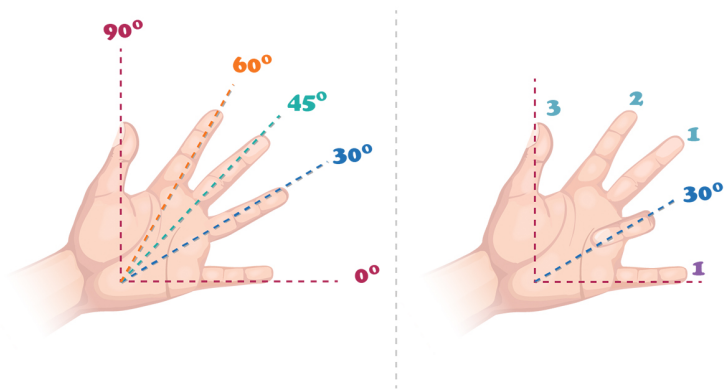
◆ You'll use trig values of 30° , 45° , & 60° (or $\frac{\pi}{6}$, $\frac{\pi}{4}$, & $\frac{\pi}{3}$) in most problems; Here's 2 methods to help memorize them.

- No matter how you choose to memorize these values, **ALWAYS** start with $\frac{\sqrt{\quad}}{2}$

1) The 1-2-3 Rule



2) The Left Hand Rule



$$\cos \theta = \frac{\sqrt{\text{fingers above}}}{2}$$

$$\sin \theta = \frac{\sqrt{\text{fingers below}}}{2}$$

$$\tan \theta = \frac{\sqrt{\text{fingers below}}}{\sqrt{\text{fingers above}}}$$

$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$

$$\sin 30^\circ = \frac{\sqrt{1}}{2} = \frac{1}{2}$$

$$\tan 30^\circ = \frac{\sqrt{1}}{\sqrt{3}} = \frac{1}{\sqrt{3}}$$

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EXAMPLE

Fill in all of the missing information.

