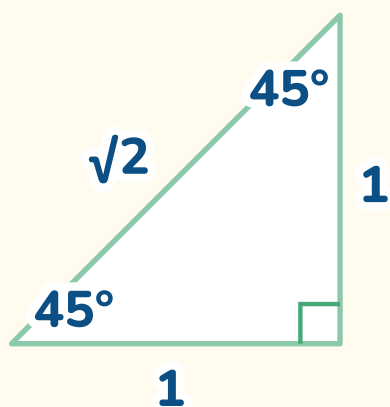
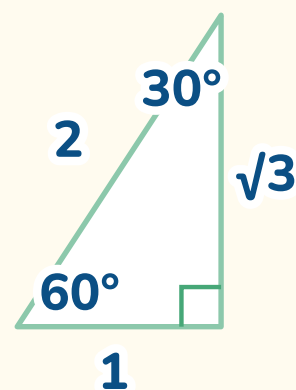


Exact trig values



$45^\circ \cdot 45^\circ \cdot 90^\circ$



$30^\circ \cdot 60^\circ \cdot 90^\circ$

θ	$\sin \theta$	$\cos \theta$	$\tan \theta$
0°	0	1	0
30°	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$
45°	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1
60°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
90°	1	0	—

The two triangles ARE the table. Every exact value on it is one side of these triangles over another, so a value you forget can be rebuilt — never just guessed. $\tan 90^\circ$ has no value: a vertical line has run out of “adjacent” to divide by.