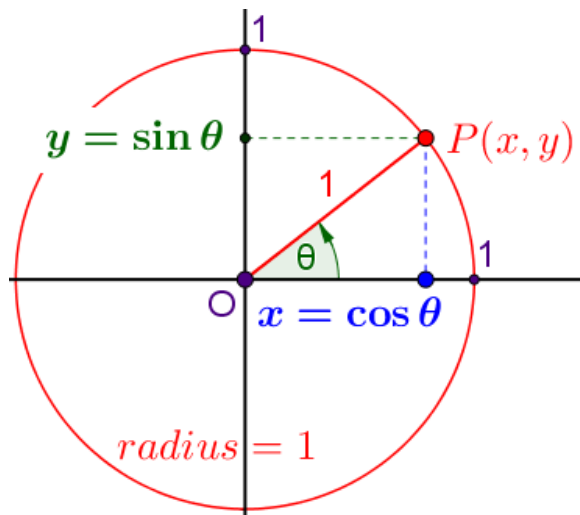




Revision: Trigonometry in a nutshell



Angles are counted counterclockwise from the positive x -axis.

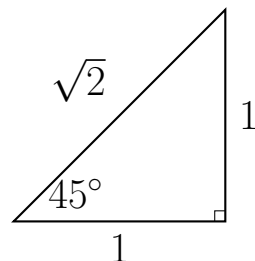
1. The x -coordinate of P is $\cos \theta$.
2. The y -coordinate of P is $\sin \theta$.
3. $\tan \theta$ is the **gradient** of the straight line OP .

$$m = \tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{y}{x}$$

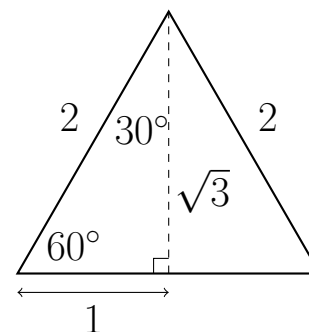
The Exact values you need to know:

θ	$\frac{\pi}{6}$ or 30°	$\frac{\pi}{4}$ or 45°	$\frac{\pi}{3}$ or 60°
$\sin \theta$	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$
$\cos \theta$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$
$\tan \theta$	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$

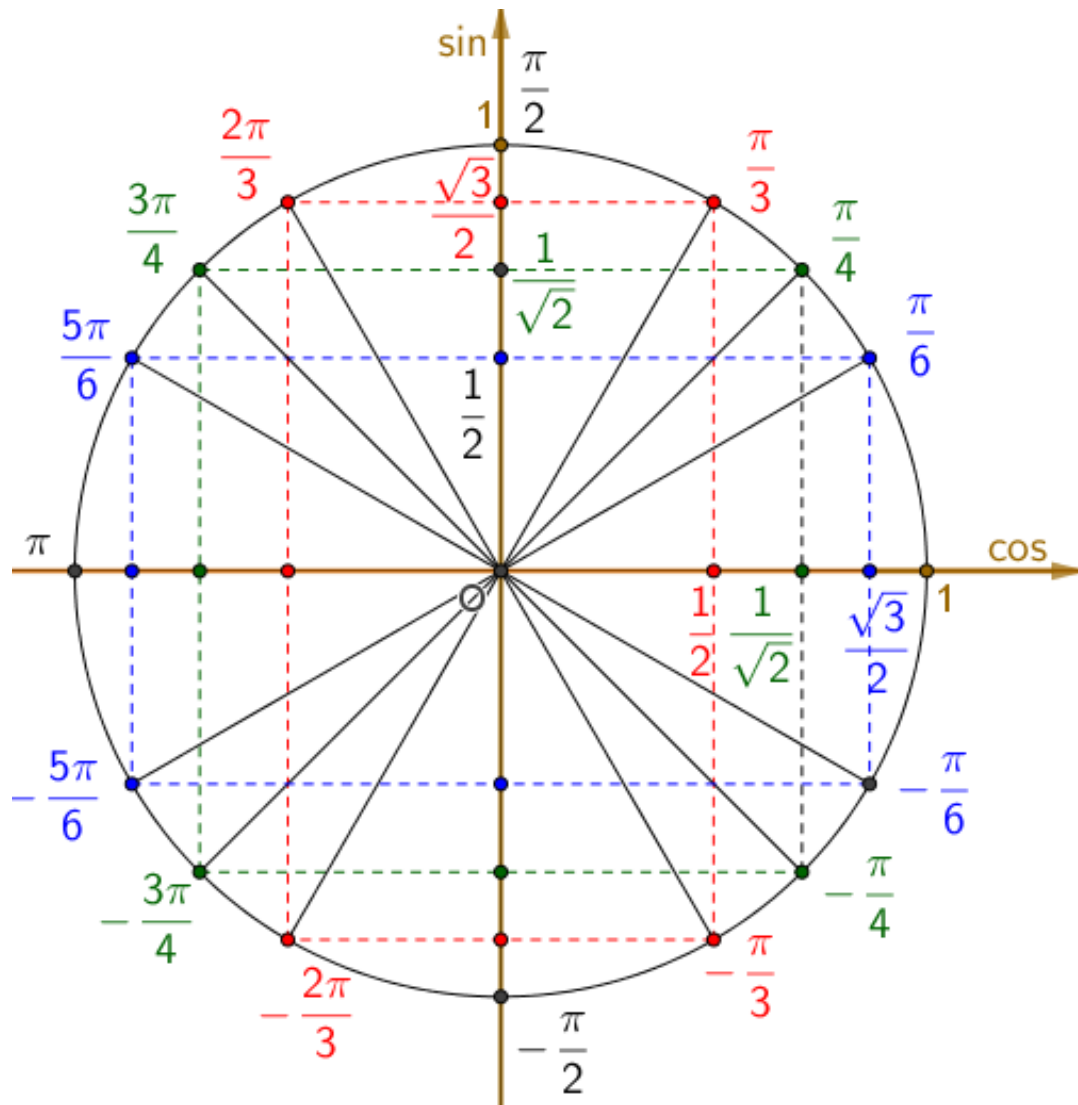
The Isosceles Right Triangle



The 30/60 Triangle



Revision: Trigonometry in a nutshell



In the first quadrant are the exact values you need to know.