

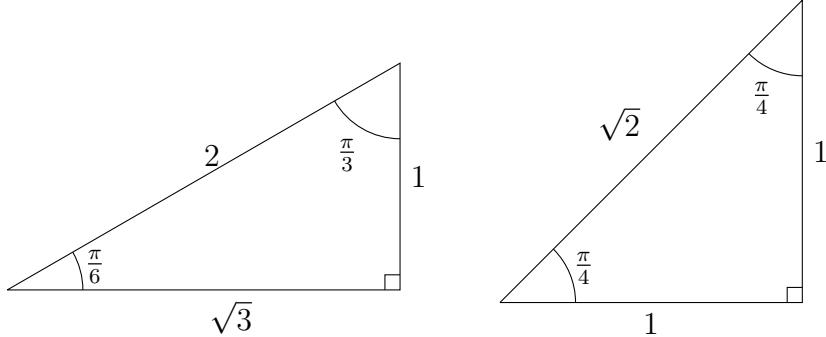
1 Table of values

$f(x)$	$f(0)$	$f\left(\frac{\pi}{6}\right)$	$f\left(\frac{\pi}{4}\right)$	$f\left(\frac{\pi}{3}\right)$	$f\left(\frac{\pi}{2}\right)$	$f\left(\frac{2\pi}{3}\right)$	$f\left(\frac{3\pi}{4}\right)$	$f\left(\frac{5\pi}{6}\right)$	$f(\pi)$
$\sin(x)$	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
$\cos(x)$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{1}{\sqrt{2}}$	$-\frac{\sqrt{3}}{2}$	-1
$\tan(x)$	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	-	$\sqrt{3}$	-1	$-\frac{1}{\sqrt{3}}$	0

2 Trigonometric Identities

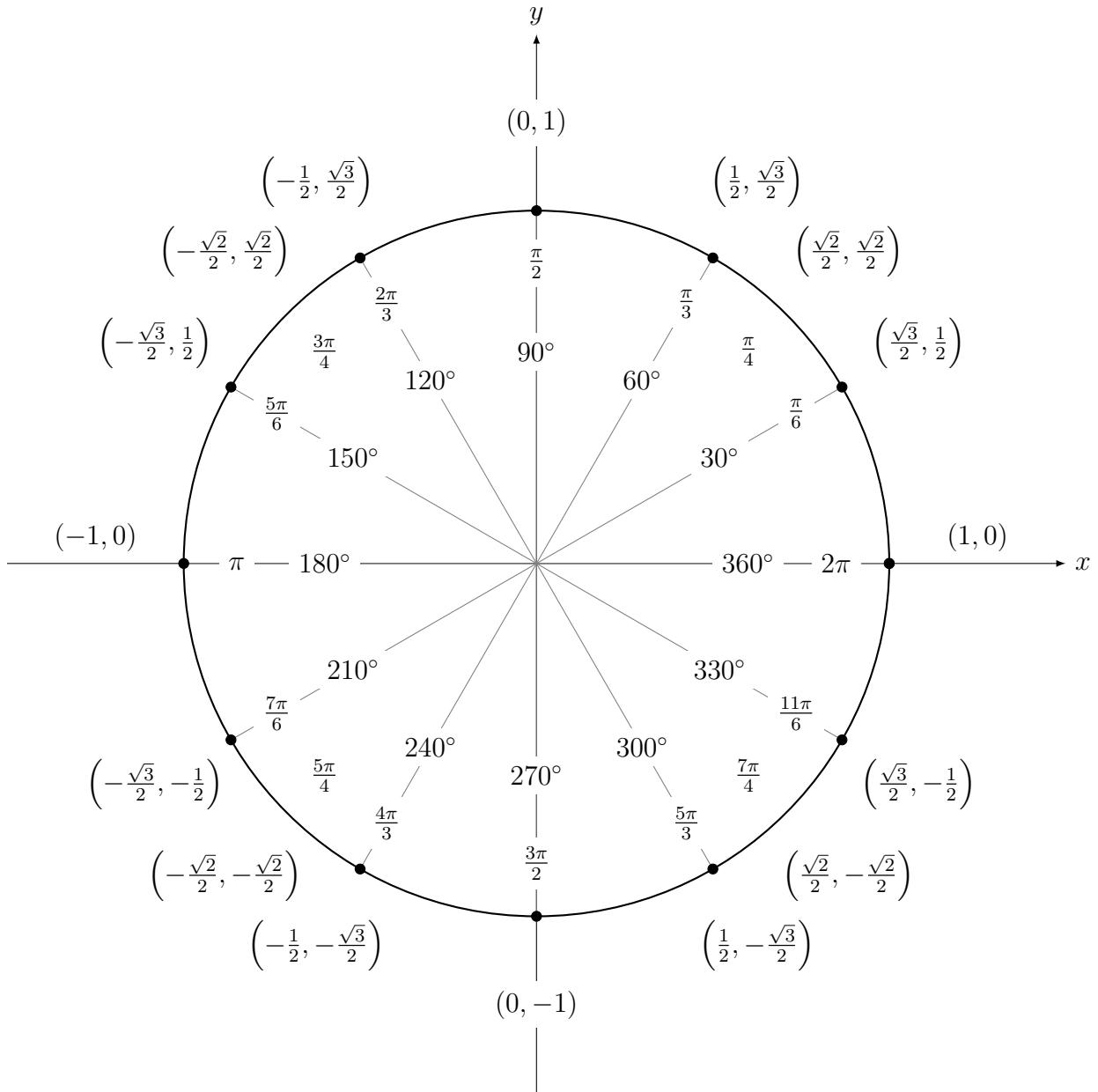
$$\begin{aligned}
 \csc(x) &= \frac{1}{\sin(x)}, & \sec(x) &= \frac{1}{\cos(x)} & \tan(x) &= \frac{\sin(x)}{\cos(x)} \\
 \cot(x) &= \frac{\cos(x)}{\sin(x)}, & \sin(-x) &= -\sin(x) & \cos(-x) &= \cos(x) \\
 \tan(-x) &= -\tan(x), & \tan(x + \pi) &= \tan(x) & \cos(x + 2\pi) &= \cos(x) \\
 \sin(x + \pi) &= -\sin(x), & \cos(x + \pi) &= -\cos(x) & \sin(x + 2\pi) &= \sin(x) \\
 \sin^2(x) + \cos^2(x) &= 1 & 1 + \tan^2(x) &= \sec^2(x) & 1 + \cot^2(x) &= \csc^2(x)
 \end{aligned}$$

3 Right Triangles



4 Unit Circle

The unit circle¹



¹Image code written by Supreme Aryal