# The Unit Circle

Positive: sin, csc
Negative: cos, tan, sec, cot

Positive: sin, cos, tan, sec, csc, cot
Negative: none

$(0, 1)$

$90°$ $\frac{\pi}{2}$

$\left(\frac{-1}{2}, \frac{\sqrt{3}}{2}\right)$

$\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$

$\frac{2\pi}{3}$

$\frac{\pi}{3}$

$\left(\frac{-\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$

$\frac{3\pi}{4}$

$120°$

$60°$

$\frac{\pi}{4}$

$\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$

$135°$

$45°$

$\left(\frac{-\sqrt{3}}{2}, \frac{1}{2}\right)$

$\frac{5\pi}{6}$

$30°$

$\frac{\pi}{6}$

$\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$

$150°$

$(-1, 0)$ π $180°$

$0°$

0 $(1, 0)$

$360°$

2π

$210°$

$330°$

$\frac{7\pi}{6}$

$\frac{11\pi}{6}$

$\left(\frac{-\sqrt{3}}{2}, \frac{-1}{2}\right)$

$225°$

$315°$

$300°$

$\left(\frac{\sqrt{3}}{2}, \frac{-1}{2}\right)$

$\frac{5\pi}{4}$

$240°$

$\frac{7\pi}{4}$

$\left(\frac{-\sqrt{2}}{2}, \frac{-\sqrt{2}}{2}\right)$

$\left(\frac{\sqrt{2}}{2}, \frac{-\sqrt{2}}{2}\right)$

$\frac{4\pi}{3}$

$\frac{5\pi}{3}$

$\left(\frac{-1}{2}, \frac{-\sqrt{3}}{2}\right)$

$\frac{3\pi}{2}$ $270°$

$\left(\frac{1}{2}, \frac{-\sqrt{3}}{2}\right)$

$(0, -1)$
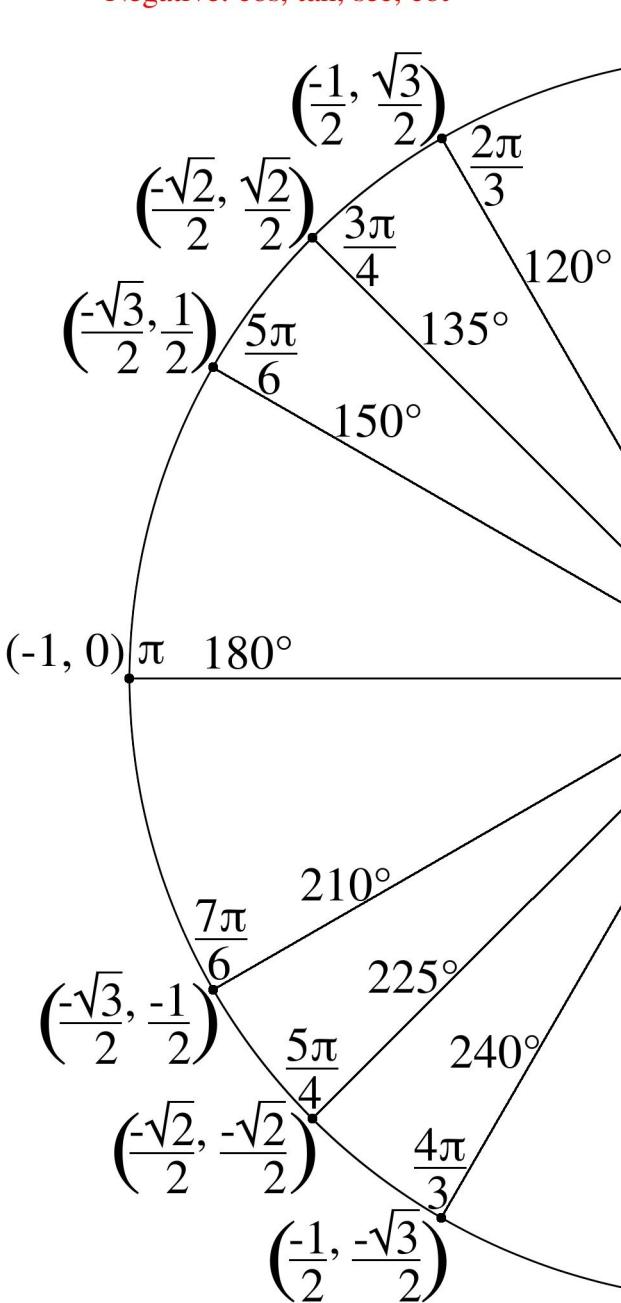
Positive: tan, cot
Negative: sin, cos, sec, csc
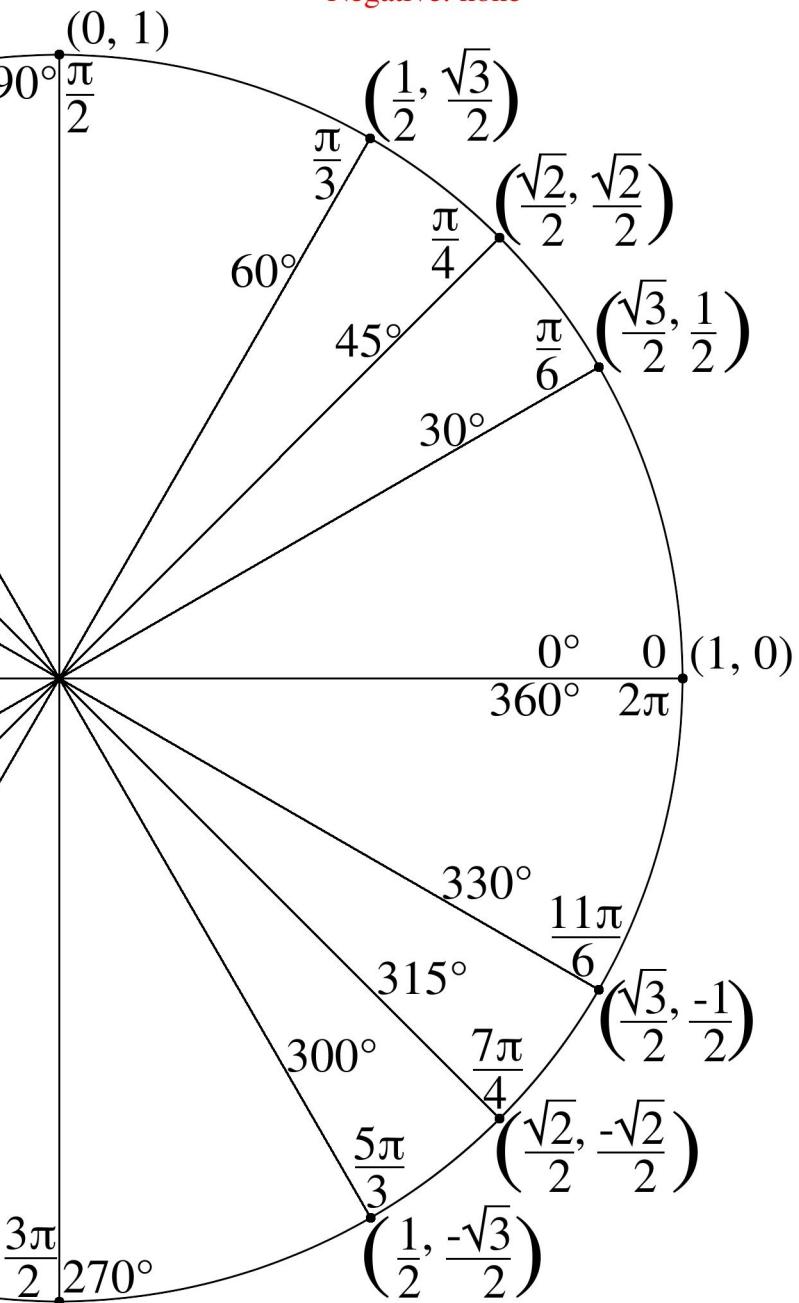
Positive: cos, sec
Negative: sin, tan, csc, cot