

$$(x, y) = (\cos(\theta), \sin(\theta))$$

θ is an angle

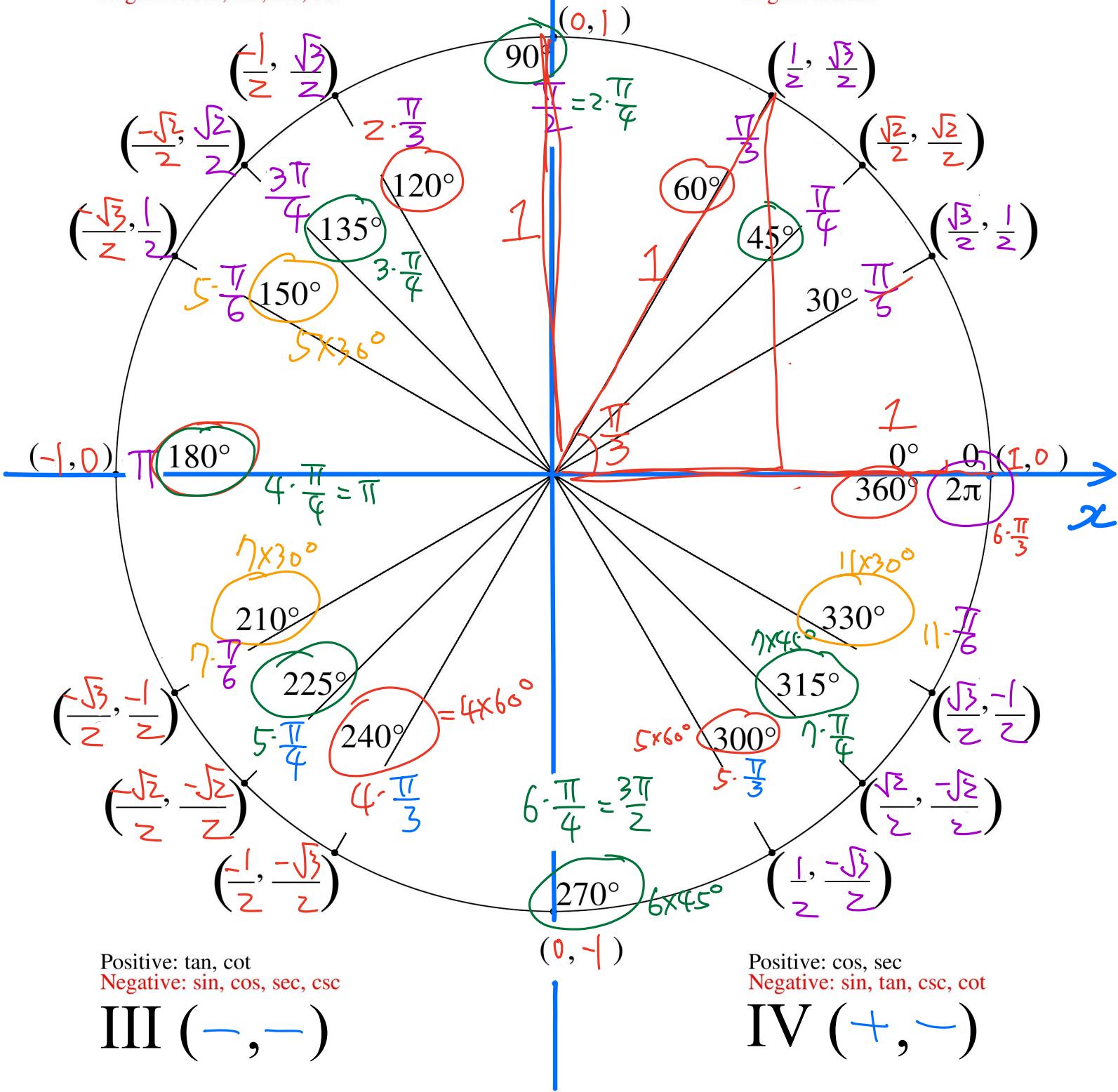
The Unit Circle

II $(-, +)$

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

I $(+, +)$

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



- ① $(x, y) = (\cos\theta, \sin\theta)$ $\cos\theta, \sin\theta$
- ② $\theta = \frac{\bullet}{6}\pi \quad (\theta = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6})$ $\pm \frac{\sqrt{3}}{2}, \pm \frac{1}{2}$
- $\theta = \frac{\bullet}{4}\pi \quad (\theta = \frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4})$ $\pm \frac{\sqrt{2}}{2}, \pm \frac{\sqrt{2}}{2}$
- $\theta = \frac{\bullet}{3}\pi \quad (\theta = \frac{\pi}{3}, \frac{2\pi}{3}, \frac{4\pi}{3}, \frac{5\pi}{3})$ $\pm \frac{1}{2}, \pm \frac{\sqrt{3}}{2}$
- $\theta = \frac{\bullet}{2}\pi \quad (\theta = \frac{\pi}{2}, \frac{3\pi}{2})$ $0, \pm 1$
- $\theta = \pi, 2\pi, 0$ $\pm 1, 0$