

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

θ is an angle

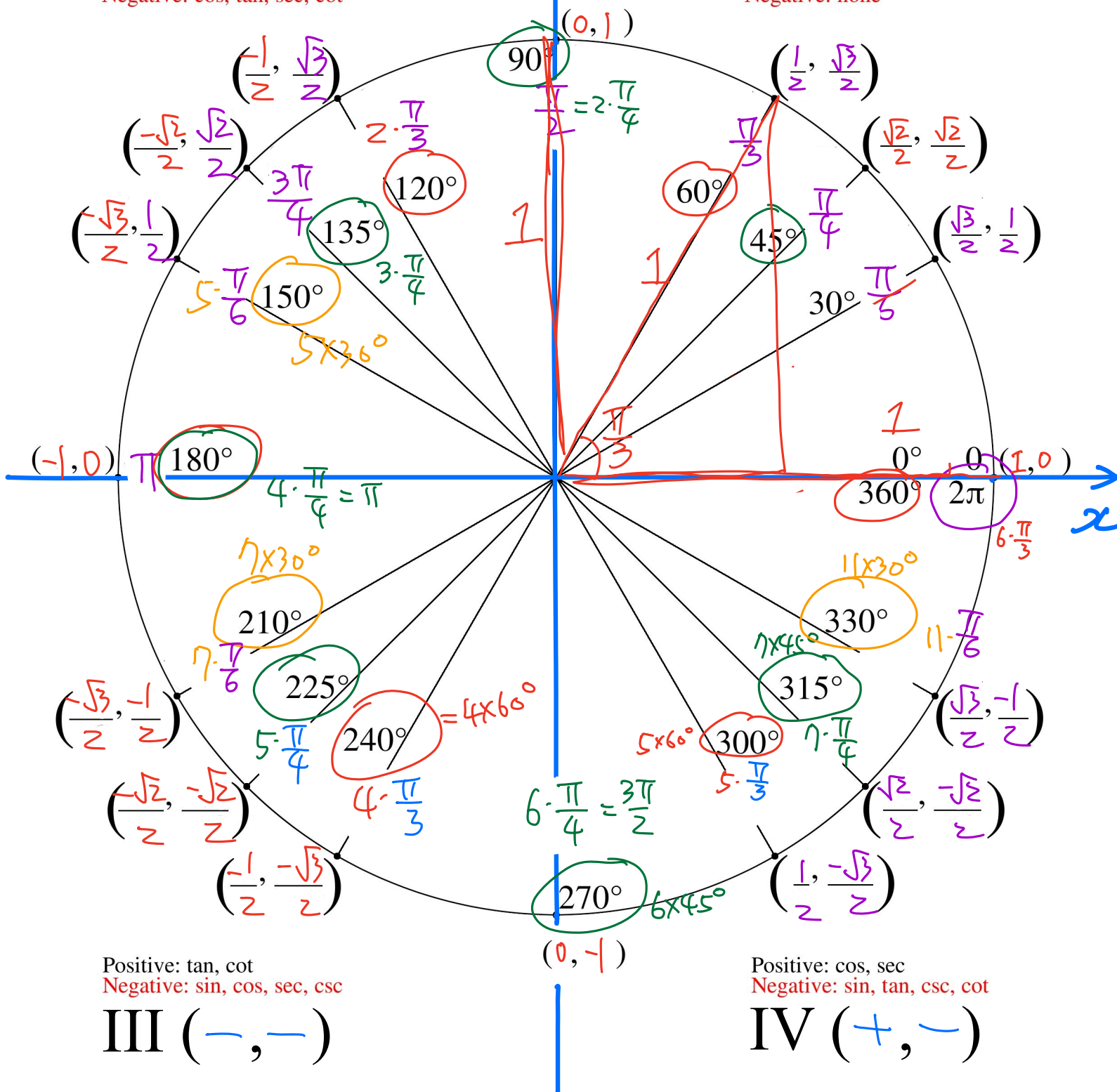
The Unit Circle

II $(-, +)$

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

I $(+, +)$

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



$$① (X, y) = (\cos \theta, \sin \theta)$$

$$\cos \theta, \sin \theta$$

$$② \theta = \frac{\cdot}{6} \pi \quad (\theta = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6})$$

$$\pm \frac{\sqrt{3}}{2} \quad \pm \frac{1}{2}$$

$$\theta = \frac{\cdot}{4} \pi \quad (\theta = \frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4})$$

$$\pm \frac{\sqrt{2}}{2} \quad \pm \frac{\sqrt{2}}{2}$$

$$\theta = \frac{\cdot}{3} \pi \quad (\theta = \frac{\pi}{3}, \frac{2\pi}{3}, \frac{4\pi}{3}, \frac{5\pi}{3})$$

$$\pm \frac{1}{2} \quad \pm \frac{\sqrt{3}}{2}$$

$$\theta = \frac{\cdot}{2} \pi \quad (\theta = \frac{\pi}{2}, \frac{3\pi}{2})$$

$$0 \quad \pm 1$$

$$\theta = \pi, 2\pi, 0$$

$$\pm 1 \quad 0$$