

$$\left(\cos\left(\frac{\pi}{2}+\theta\right), \sin\left(\frac{\pi}{2}+\theta\right)\right) = (-y, x)$$

$$(y, x) = \left(\cos\left(\frac{\pi}{2}-\theta\right), \sin\left(\frac{\pi}{2}-\theta\right)\right)$$

$$\left(\cos(\pi-\theta), \sin(\pi-\theta)\right) \Rightarrow (-x, y)$$

$$(x, y) = (\cos\theta, \sin\theta) \Rightarrow (\cos(\theta+2\pi), \sin(\theta+2\pi))$$

$$\left(\cos(\theta-\pi), \sin(\theta-\pi)\right) \Rightarrow (-x, -y)$$

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

$$\left(\cos(\pi+\theta), \sin(\pi+\theta)\right)$$

$$\left(\cos\left(-\frac{\pi}{2}-\theta\right), \sin\left(-\frac{\pi}{2}-\theta\right)\right) = (-y, -x)$$

$$(y, -x) = \left(\cos\left(\theta-\frac{\pi}{2}\right), \sin\left(\theta-\frac{\pi}{2}\right)\right)$$

