$$t = \pi \mapsto (-\pi, 0)$$

$$t = \frac{5\pi}{2} \mapsto (0, \frac{5\pi}{2})$$

$$t = \frac{\pi}{2} \mapsto (0, 0)$$

$$t = 0 \mapsto (0, 0)$$

$$t = 2\pi \mapsto (2\pi, 0)$$

$$t = 3\pi \mapsto (-3\pi, 0)$$

$$t = \frac{3\pi}{2} \mapsto (0, \frac{-3\pi}{2})$$

$$t = 4\pi \mapsto (4\pi, 0)$$