$$t = \frac{3\pi}{4} \mapsto \left(\frac{-1}{\sqrt{2}}, \sqrt{2}\right)$$

$$t = \frac{\pi}{4} \mapsto \left(\frac{1}{\sqrt{2}}, \sqrt{2}\right)$$

$$t = \pi \mapsto (-1, 0)$$

$$t = 0 \mapsto (1, 0)$$

$$t = \frac{5\pi}{4} \mapsto \left(\frac{-1}{\sqrt{2}}, -\sqrt{2}\right)$$

$$t = \frac{3\pi}{4} \mapsto \left(\frac{1}{\sqrt{2}}, -\sqrt{2}\right)$$

$$t = \frac{3\pi}{4} \mapsto \left(\frac{1}{\sqrt{2}}, -\sqrt{2}\right)$$