$$c(t) = \begin{pmatrix} t \cdot \cos t \\ t \cdot \sin t \end{pmatrix} \qquad t \in \mathbb{R}$$

$$c(2\pi) = \begin{pmatrix} 2\pi \\ 0 \end{pmatrix}$$

$t = 2\pi$

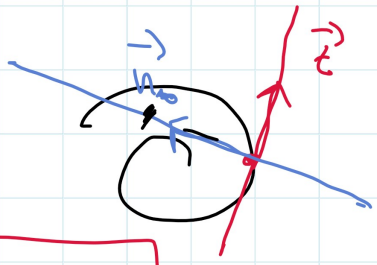
$$c' = \begin{pmatrix} \cos t - t \cdot \sin t \\ t \cdot \cos t + \sin t \end{pmatrix} \Rightarrow c'(2\pi) = \begin{pmatrix} 1 \\ 2\pi \end{pmatrix}$$

$$\vec{t}(2\pi) = \frac{1}{\sqrt{1+4\pi^2}} \begin{pmatrix} 1 \\ 2\pi \end{pmatrix}$$

$$\vec{n}_*(2\pi) = \frac{1}{\sqrt{1+4\pi^2}} \begin{pmatrix} -2\pi \\ 1 \end{pmatrix}$$

$$c'' = \begin{pmatrix} -t\cos t - 2\sin t \\ 2\cos t - t\sin t \end{pmatrix}$$

$$\Rightarrow c''(2\pi) = \begin{pmatrix} -2\pi \\ 2 \end{pmatrix}$$



$$\kappa_2(2\pi) = \frac{\begin{vmatrix} 1 & -2\pi \\ 2\pi & 2 \end{vmatrix}}{\left(\sqrt{1+4\pi^2}\right)^3} = \frac{2+4\pi^2}{\left(\sqrt{1+4\pi^2}\right)^3}$$

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$$R(2\pi) = \frac{1}{\kappa_2(2\pi)}$$

$$S(2\pi) = c(2\pi) + n_*(2\pi) \cdot R(2\pi) =$$

$$= \left\{ \frac{\pi}{1+2\pi^2} \mid \frac{1+4\pi^2}{2+4\pi^2} \right\}$$