

$$x = (R-r) \cos \frac{rt}{R} + c \cos \frac{(R-r)t}{R}, y = (R-r) \sin \frac{rt}{R} - c \sin \frac{(R-r)t}{R}, t \in \mathbb{R}.$$

$$x = (R-r) \cos \varphi + c \cos \frac{(R-r)\varphi}{r}, y = (R-r) \sin \varphi - c \sin \frac{(R-r)\varphi}{r}, \varphi \in \mathbb{R}.$$

$$x = \frac{(1-\sqrt{3})r}{\sqrt{3}} \cos \sqrt{3}t + r \cos(\sqrt{3}-1)t$$

$$y = \frac{(1-\sqrt{3})r}{\sqrt{3}} \sin \sqrt{3}t + r \sin(\sqrt{3}-1)t$$

$$t \in \langle 0; 6.2\pi \rangle$$

$$R = \frac{r}{\sqrt{3}}, c = r$$

$$x = \frac{(1-\sqrt{3})r}{\sqrt{3}} \cos \varphi + r \cos \frac{(\sqrt{3}-1)\varphi}{\sqrt{3}}$$

$$y = \frac{(1-\sqrt{3})r}{\sqrt{3}} \sin \varphi + r \sin \frac{(\sqrt{3}-1)\varphi}{\sqrt{3}}$$

$$\varphi \in \langle 0; 10.7387\pi \rangle$$