

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

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

$$x = (1+\pi)r \cos \frac{t}{\pi} - \frac{r}{2} \cos \frac{(1+\pi)t}{\pi}$$

$$y = (1+\pi)r \sin \frac{t}{\pi} - \frac{r}{2} \sin \frac{(1+\pi)t}{\pi}$$

$$t \in \langle 0; 19.4779\pi \rangle$$

$$R = \pi r, c = \frac{r}{2}$$

$$x = (1+\pi)r \cos \varphi - \frac{r}{2} \cos (1+\pi)\varphi$$

$$y = (1+\pi)r \sin \varphi - \frac{r}{2} \sin (1+\pi)\varphi$$

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