

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

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

$$x = -\frac{r}{3} \cos \frac{3t}{2} + 3r \cos \frac{t}{2}, y = -\frac{r}{3} \sin \frac{3t}{2} + 3r \sin \frac{t}{2} \quad x = -\frac{r}{3} \cos \varphi + 3r \cos \frac{\varphi}{3}, y = -\frac{r}{3} \sin \varphi + 3r \sin \frac{\varphi}{3}$$

$$t \in \langle 0; 4\pi \rangle$$

$$\varphi \in \langle 0; 6\pi \rangle$$

$$R = \frac{2r}{3}, c = 3r$$