

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

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

$$x = -\frac{3r}{5} \cos \frac{5t}{2} + \frac{r}{2} \cos \frac{3t}{2}, y = -\frac{3r}{5} \sin \frac{5t}{2} + \frac{r}{2} \sin \frac{3t}{2} \quad x = -\frac{3r}{5} \cos \varphi + \frac{r}{2} \cos \frac{3\varphi}{5}, y = -\frac{3r}{5} \sin \varphi + \frac{r}{2} \sin \frac{3\varphi}{5}$$

$t \in (0; 4\pi)$ $\varphi \in (0; 10\pi)$

$$R = \frac{2r}{5}, c = \frac{r}{2}$$