

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

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

$$x = -\frac{r}{5} \cos \frac{5t}{4} + \frac{3r}{2} \cos \frac{t}{4}, y = -\frac{r}{5} \sin \frac{5t}{4} + \frac{3r}{2} \sin \frac{t}{4} \quad x = -\frac{r}{5} \cos \varphi + \frac{3r}{2} \cos \frac{\varphi}{5}, y = -\frac{r}{5} \sin \varphi + \frac{3r}{2} \sin \frac{\varphi}{5}$$

$t \in \langle 0; 8\pi \rangle$ $\varphi \in \langle 0; 10\pi \rangle$

$$R = \frac{4r}{5}, c = \frac{3r}{2}$$