

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

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

$$x = -\frac{3r}{7} \cos \frac{7t}{4} + \frac{r}{4} \cos \frac{3t}{4}, y = -\frac{3r}{7} \sin \frac{7t}{4} + \frac{r}{4} \sin \frac{3t}{4} \quad x = -\frac{3r}{7} \cos \varphi + \frac{r}{4} \cos \frac{3\varphi}{7}, y = -\frac{3r}{7} \sin \varphi + \frac{r}{4} \sin \frac{3\varphi}{7}$$

$t \in (0; 8\pi)$ $\varphi \in (0; 14\pi)$

$$R = \frac{4r}{7}, c = \frac{r}{4}$$