

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

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

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

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

$t \in \langle 0; 14\pi \rangle$

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

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