

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

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

$$x = -\frac{2r}{9} \cos \frac{9t}{7} + \frac{r}{4} \cos \frac{2t}{7}, y = -\frac{2r}{9} \sin \frac{9t}{7} + \frac{r}{4} \sin \frac{2t}{7} \quad x = -\frac{2r}{9} \cos \varphi + \frac{r}{4} \cos \frac{2\varphi}{9}, y = -\frac{2r}{9} \sin \varphi + \frac{r}{4} \sin \frac{2\varphi}{9}$$

$t \in \langle 0; 14\pi \rangle$   $\varphi \in \langle 0; 18\pi \rangle$

$$R = \frac{7r}{9}, c = \frac{r}{4}$$