

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

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

$$x = \frac{r}{6} \cos \frac{6t}{7} + 5r \cos \frac{t}{7}, y = \frac{r}{6} \sin \frac{6t}{7} - 5r \sin \frac{t}{7}$$

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

$$x = \frac{r}{6} \cos \varphi + 5r \cos \frac{\varphi}{6}, y = \frac{r}{6} \sin \varphi - 5r \sin \frac{\varphi}{6}$$

$$\varphi \in \langle 0; 12\pi \rangle$$

$$R = \frac{7r}{6}, c = 5r$$