

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

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

$$x = \frac{r}{7} \cos \frac{7t}{8} + 3r \cos \frac{t}{8}, y = \frac{r}{7} \sin \frac{7t}{8} - 3r \sin \frac{t}{8}$$

$$t \in \langle 0; 16\pi \rangle$$

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

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

$$R = \frac{8r}{7}, c = 3r$$