

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

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

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

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

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

$\varphi \in \langle 0; 6\pi \rangle$

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