

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

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

$$x = \frac{11r}{8} \cos \frac{8t}{3} - 2r \cos \frac{11t}{3}, y = \frac{11r}{8} \sin \frac{8t}{3} - 2r \sin \frac{11t}{3} \quad x = \frac{11r}{8} \cos \varphi - 2r \cos \frac{11\varphi}{8}, y = \frac{11r}{8} \sin \varphi - 2r \sin \frac{11\varphi}{8}$$

$t \in (0; 6\pi)$ $\varphi \in (0; 16\pi)$

$$R = \frac{3r}{8}, c = 2r$$