

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

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

$$x = \frac{17r}{8} \cos \frac{8t}{9} - 3r \cos \frac{17t}{9}, y = \frac{17r}{8} \sin \frac{8t}{9} - 3r \sin \frac{17t}{9} \quad x = \frac{17r}{8} \cos \varphi - 3r \cos \frac{17\varphi}{8}, y = \frac{17r}{8} \sin \varphi - 3r \sin \frac{17\varphi}{8}$$

$t \in \langle 0; 18\pi \rangle$ $\varphi \in \langle 0; 16\pi \rangle$

$$R = \frac{9r}{8}, c = 3r$$