

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

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

$$x = 10r \cos \frac{t}{9} - \frac{3r}{4} \cos \frac{10t}{9}, y = 10r \sin \frac{t}{9} - \frac{3r}{4} \sin \frac{10t}{9} \quad x = 10r \cos \varphi - \frac{3r}{4} \cos 10\varphi, y = 10r \sin \varphi - \frac{3r}{4} \sin 10\varphi$$

$t \in \langle 0; 18\pi \rangle$   $\varphi \in \langle 0; 2\pi \rangle$

$$R = 9r, c = \frac{3r}{4}$$