

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

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

$$x = \frac{11r}{2} \cos \frac{2t}{9}, y = \frac{11r}{2} \sin \frac{2t}{9}$$

$t \in (0; 18\pi)$

$$x = \frac{11r}{2} \cos \varphi, y = \frac{11r}{2} \sin \varphi$$

$\varphi \in (0; 4\pi)$

$$R = \frac{9r}{2}, c = 0$$