

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

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

$$x = \frac{16r}{9} \cos \frac{9t}{7}, y = \frac{16r}{9} \sin \frac{9t}{7}$$

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

$$x = \frac{16r}{9} \cos \varphi, y = \frac{16r}{9} \sin \varphi$$

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

$$R = \frac{7r}{9}, c = 0$$