

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

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

$$x = \frac{16r}{9} \cos \frac{9t}{7} - \frac{3r}{2} \cos \frac{16t}{7}, y = \frac{16r}{9} \sin \frac{9t}{7} - \frac{3r}{2} \sin \frac{16t}{7} \quad x = \frac{16r}{9} \cos \varphi - \frac{3r}{2} \cos \frac{16\varphi}{9}, y = \frac{16r}{9} \sin \varphi - \frac{3r}{2} \sin \frac{16\varphi}{9}$$

$t \in \langle 0; 14\pi \rangle$ $\varphi \in \langle 0; 18\pi \rangle$

$$R = \frac{7r}{9}, c = \frac{3r}{2}$$