

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

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

$$x = \frac{12r}{7} \cos \frac{7t}{5} - 4r \cos \frac{12t}{5}, y = \frac{12r}{7} \sin \frac{7t}{5} - 4r \sin \frac{12t}{5} \quad x = \frac{12r}{7} \cos \varphi - 4r \cos \frac{12\varphi}{7}, y = \frac{12r}{7} \sin \varphi - 4r \sin \frac{12\varphi}{7}$$

$t \in \langle 0; 10\pi \rangle$   $\varphi \in \langle 0; 14\pi \rangle$

$$R = \frac{5r}{7}, c = 4r$$