

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

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

$$x = -\frac{3r}{8} \cos \frac{8t}{5} + 4r \cos \frac{3t}{5}, y = -\frac{3r}{8} \sin \frac{8t}{5} + 4r \sin \frac{3t}{5} \quad x = -\frac{3r}{8} \cos \varphi + 4r \cos \frac{3\varphi}{8}, y = -\frac{3r}{8} \sin \varphi + 4r \sin \frac{3\varphi}{8}$$

$t \in \langle 0; 10\pi \rangle$ $\varphi \in \langle 0; 16\pi \rangle$

$$R = \frac{5r}{8}, c = 4r$$