

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

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

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

$t \in \langle 0; 6\pi \rangle$ $\varphi \in \langle 0; 16\pi \rangle$

$$R = \frac{3r}{8}, c = 5r$$