

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

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

$$x = \frac{3r}{2} \cos \frac{2t}{5} + \frac{r}{4} \cos \frac{3t}{5}, y = \frac{3r}{2} \sin \frac{2t}{5} - \frac{r}{4} \sin \frac{3t}{5}$$

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

$$x = \frac{3r}{2} \cos \varphi + \frac{r}{4} \cos \frac{3\varphi}{2}, y = \frac{3r}{2} \sin \varphi - \frac{r}{4} \sin \frac{3\varphi}{2}$$

$$\varphi \in \langle 0; 4\pi \rangle$$

$$R = \frac{5r}{2}, c = \frac{r}{4}$$