

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

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

$$x = 7r \cos \frac{t}{8} + \frac{r}{2} \cos \frac{7t}{8}, y = 7r \sin \frac{t}{8} - \frac{r}{2} \sin \frac{7t}{8}$$

$t \in (0; 16\pi)$

$$x = 7r \cos \varphi + \frac{r}{2} \cos 7\varphi, y = 7r \sin \varphi - \frac{r}{2} \sin 7\varphi$$

$\varphi \in (0; 2\pi)$

$$R = 8r, c = \frac{r}{2}$$