

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

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

$$x = 5r \cos \frac{t}{6} + \frac{r}{2} \cos \frac{5t}{6}, y = 5r \sin \frac{t}{6} - \frac{r}{2} \sin \frac{5t}{6}$$

$$t \in (0; 12\pi)$$

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

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

$$R = 6r, c = \frac{r}{2}$$