

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

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

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

$$t \in (0; 8\pi)$$

$$x = 5r \cos \varphi - \frac{5r}{4} \cos 5\varphi, y = 5r \sin \varphi - \frac{5r}{4} \sin 5\varphi$$

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

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