

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

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

$$x = 7r \cos \frac{t}{8} + 4r \cos \frac{7t}{8}, y = 7r \sin \frac{t}{8} - 4r \sin \frac{7t}{8}$$

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

$$x = 7r \cos \varphi + 4r \cos 7\varphi, y = 7r \sin \varphi - 4r \sin 7\varphi$$

$$\varphi \in \langle 0; 2\pi \rangle$$

$$R = 8r, c = 4r$$