

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

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

$$x = 3r \cos \frac{t}{4}, y = 3r \sin \frac{t}{4} \\ t \in \langle 0; 8\pi \rangle$$

$$R = 4r, c = 0$$

$$x = 3r \cos \varphi, y = 3r \sin \varphi \\ \varphi \in \langle 0; 2\pi \rangle$$