

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

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

$$x = (1+\sqrt{2})r \cos \frac{t}{\sqrt{2}}$$

$$y = (1+\sqrt{2})r \sin \frac{t}{\sqrt{2}}$$

$$t \in (0; 8.7681\pi)$$

$$R = \sqrt{2}r, c = 0$$

$$x = (1+\sqrt{2})r \cos \varphi$$

$$y = (1+\sqrt{2})r \sin \varphi$$

$$\varphi \in (0; 6.2\pi)$$