

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

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

$$x = \frac{(1+\sqrt{7})r}{\sqrt{7}} \cos \sqrt{7}t - \frac{5r}{4} \cos (1+\sqrt{7})t$$

$$y = \frac{(1+\sqrt{7})r}{\sqrt{7}} \sin \sqrt{7}t - \frac{5r}{4} \sin (1+\sqrt{7})t$$

$$t \in \langle 0; 6.2\pi \rangle$$

$$R = \frac{r}{\sqrt{7}}, c = \frac{5r}{4}$$

$$x = \frac{(1+\sqrt{7})r}{\sqrt{7}} \cos \varphi - \frac{5r}{4} \cos \frac{(1+\sqrt{7})\varphi}{\sqrt{7}}$$

$$y = \frac{(1+\sqrt{7})r}{\sqrt{7}} \sin \varphi - \frac{5r}{4} \sin \frac{(1+\sqrt{7})\varphi}{\sqrt{7}}$$

$$\varphi \in \langle 0; 16.4037\pi \rangle$$