

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

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

$$x = \frac{8r}{3} \cos \frac{3t}{5} - r \cos \frac{8t}{5}, y = \frac{8r}{3} \sin \frac{3t}{5} - r \sin \frac{8t}{5}$$

$$t \in \langle 0; 10\pi \rangle$$

$$x = \frac{8r}{3} \cos \varphi - r \cos \frac{8\varphi}{3}, y = \frac{8r}{3} \sin \varphi - r \sin \frac{8\varphi}{3}$$

$$\varphi \in \langle 0; 6\pi \rangle$$

$$R = \frac{5r}{3}, c = r$$