

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

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

$$x = \frac{10r}{7} \cos \frac{7t}{3} - r \cos \frac{10t}{3}, y = \frac{10r}{7} \sin \frac{7t}{3} - r \sin \frac{10t}{3}$$

$$t \in (0; 6\pi)$$

$$x = \frac{10r}{7} \cos \varphi - r \cos \frac{10\varphi}{7}, y = \frac{10r}{7} \sin \varphi - r \sin \frac{10\varphi}{7}$$

$$\varphi \in (0; 14\pi)$$

$$R = \frac{3r}{7}, c = r$$