

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

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

$$x = \frac{17r}{8} \cos \frac{8t}{9} - r \cos \frac{17t}{9}, y = \frac{17r}{8} \sin \frac{8t}{9} - r \sin \frac{17t}{9}$$

$$t \in \langle 0; 18\pi \rangle$$

$$x = \frac{17r}{8} \cos \varphi - r \cos \frac{17\varphi}{8}, y = \frac{17r}{8} \sin \varphi - r \sin \frac{17\varphi}{8}$$

$$\varphi \in \langle 0; 16\pi \rangle$$

$$R = \frac{9r}{8}, c = r$$