

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

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

$$x = \frac{10r}{9} \cos 9t, y = \frac{10r}{9} \sin 9t$$

$$t \in (0; 2\pi)$$

$$R = \frac{r}{9}, c = 0$$

$$x = \frac{10r}{9} \cos \varphi, y = \frac{10r}{9} \sin \varphi$$

$$\varphi \in (0; 18\pi)$$