

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

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

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

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

$$x = 8r \cos \varphi + r \cos 8\varphi, y = 8r \sin \varphi - r \sin 8\varphi$$

$\varphi \in \langle 0; 2\pi \rangle$

$$R = 9r, c = r$$