

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

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

$$x = 3r \cos \frac{t}{4} + 4r \cos \frac{3t}{4}, y = 3r \sin \frac{t}{4} - 4r \sin \frac{3t}{4}$$

$t \in (0; 8\pi)$

$$x = 3r \cos \varphi + 4r \cos 3\varphi, y = 3r \sin \varphi - 4r \sin 3\varphi$$

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

$$R = 4r, c = 4r$$