

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

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

$$x = -\frac{2r}{3} \cos 3t + 2r \cos 2t, y = -\frac{2r}{3} \sin 3t + 2r \sin 2t \quad x = -\frac{2r}{3} \cos \varphi + 2r \cos \frac{2\varphi}{3}, y = -\frac{2r}{3} \sin \varphi + 2r \sin \frac{2\varphi}{3}$$

$t \in (0; 2\pi)$   $\varphi \in (0; 6\pi)$

$$R = \frac{r}{3}, c = 2r$$