

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

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

$$x = \frac{13r}{9} \cos \frac{9t}{4} - \frac{r}{2} \cos \frac{13t}{4}, y = \frac{13r}{9} \sin \frac{9t}{4} - \frac{r}{2} \sin \frac{13t}{4} \quad x = \frac{13r}{9} \cos \varphi - \frac{r}{2} \cos \frac{13\varphi}{9}, y = \frac{13r}{9} \sin \varphi - \frac{r}{2} \sin \frac{13\varphi}{9}$$

$t \in \langle 0; 8\pi \rangle$   $\varphi \in \langle 0; 18\pi \rangle$

$$R = \frac{4r}{9}, c = \frac{r}{2}$$