

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

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

$$x = \frac{(1+e)r}{e} \cos e t - \frac{3r}{2} \cos (1+e)t$$

$$y = \frac{(1+e)r}{e} \sin e t - \frac{3r}{2} \sin (1+e)t$$

$$t \in \langle 0; 6.2\pi \rangle$$

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

$$x = \frac{(1+e)r}{e} \cos \varphi - \frac{3r}{2} \cos \frac{(1+e)\varphi}{e}$$

$$y = \frac{(1+e)r}{e} \sin \varphi - \frac{3r}{2} \sin \frac{(1+e)\varphi}{e}$$

$$\varphi \in \langle 0; 16.8533\pi \rangle$$