

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

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

$$\begin{aligned} x &= (1+e)r \cos \frac{t}{e} \\ y &= (1+e)r \sin \frac{t}{e} \\ t &\in \langle 0; 16.8533\pi \rangle \end{aligned}$$

$$R = er, c = 0$$

$$\begin{aligned} x &= (1+e)r \cos \varphi \\ y &= (1+e)r \sin \varphi \\ \varphi &\in \langle 0; 6.2\pi \rangle \end{aligned}$$