

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

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

$$x = \frac{8r}{7} \cos 7t - \frac{3r}{4} \cos 8t, y = \frac{8r}{7} \sin 7t - \frac{3r}{4} \sin 8t$$

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

$$x = \frac{8r}{7} \cos \varphi - \frac{3r}{4} \cos \frac{8\varphi}{7}, y = \frac{8r}{7} \sin \varphi - \frac{3r}{4} \sin \frac{8\varphi}{7}$$

$$\varphi \in (0; 14\pi)$$

$$R = \frac{r}{7}, c = \frac{3r}{4}$$