

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

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

$$x = \frac{9r}{7} \cos \frac{7t}{2} - \frac{5r}{4} \cos \frac{9t}{2}, y = \frac{9r}{7} \sin \frac{7t}{2} - \frac{5r}{4} \sin \frac{9t}{2}$$

$$t \in (0; 4\pi)$$

$$x = \frac{9r}{7} \cos \varphi - \frac{5r}{4} \cos \frac{9\varphi}{7}, y = \frac{9r}{7} \sin \varphi - \frac{5r}{4} \sin \frac{9\varphi}{7}$$

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

$$R = \frac{2r}{7}, c = \frac{5r}{4}$$