

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

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

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

$$t \in \langle 0; 2\pi \rangle$$

$$x = -\frac{r}{2} \cos \varphi + 4r \cos \frac{\varphi}{2}, y = -\frac{r}{2} \sin \varphi + 4r \sin \frac{\varphi}{2}$$

$$\varphi \in \langle 0; 4\pi \rangle$$

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