

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

$$c = \frac{3r}{2}, r > 0: x = rt - \frac{3r}{2} \sin t, y = r - \frac{3r}{2} \cos t, t \in \langle 0; 6.6\pi \rangle$$