

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

$$c = \frac{5r}{4}, \quad r > 0: \quad x = rt - \frac{5r}{4} \sin t, \quad y = r - \frac{5r}{4} \cos t, \quad t \in \langle 0; 6.6\pi \rangle$$