Pericykloida – skrátená

$c > r > R > 0$

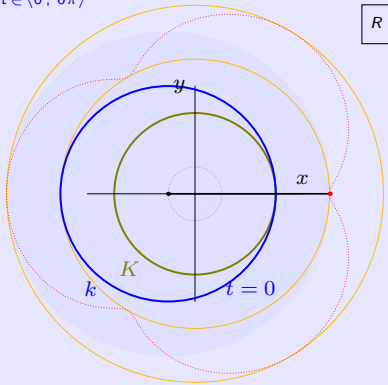
$x = (R-r)\cos\frac{rt}{R} + c\cos\frac{(R-r)t}{R},\ y = (R-r)\sin\frac{rt}{R} - c\sin\frac{(R-r)t}{R},\ t \in R.$

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

$x = -\frac{r}{4}\cos\frac{4t}{3} + \frac{3r}{2}\cos\frac{t}{3},\ y = -\frac{r}{4}\sin\frac{4t}{3} + \frac{3r}{2}\sin\frac{t}{3}$

$t \in \langle 0\,;\, 6\pi\rangle$

$R = \frac{3r}{4},\ c = \frac{3r}{2}$



$x = -\frac{r}{4}\cos\varphi + \frac{3r}{2}\cos\frac{\varphi}{4},\ y = -\frac{r}{4}\sin\varphi + \frac{3r}{2}\sin\frac{\varphi}{4}$

$\varphi \in \langle 0\,;\, 8\pi\rangle$