Hypocykloida – predĺžená

$c > r > 0,\ R > r > 0$

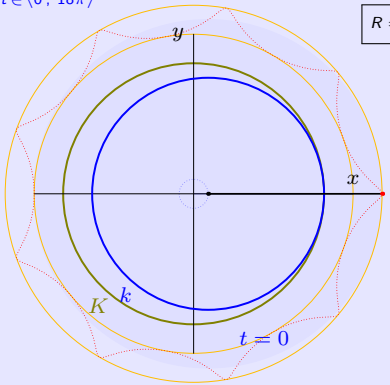
$x = (R-r)\cos\frac{rt}{R} + c\cos\frac{(R-r)t}{R},\ y = (R-r)\sin\frac{rt}{R} - c\sin\frac{(R-r)t}{R},\ t \in R.$

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

$x = \frac{r}{8}\cos\frac{8t}{9} + \frac{3r}{2}\cos\frac{t}{9},\ y = \frac{r}{8}\sin\frac{8t}{9} - \frac{3r}{2}\sin\frac{t}{9}$

$t \in \langle 0\,;\ 18\pi\rangle$

$R = \frac{9r}{8},\ c = \frac{3r}{2}$



$x = \frac{r}{8}\cos\varphi + \frac{3r}{2}\cos\frac{\varphi}{8},\ y = \frac{r}{8}\sin\varphi - \frac{3r}{2}\sin\frac{\varphi}{8}$

$\varphi \in \langle 0\,;\ 16\pi\rangle$