Epicykloida – predĺžená

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

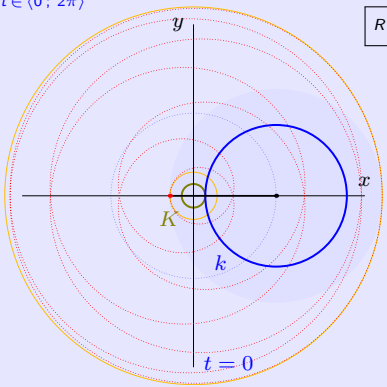
$x = (R+r)\cos\frac{rt}{R} - c\cos\frac{(R+r)t}{R},\ y = (R+r)\sin\frac{rt}{R} - c\sin\frac{(R+r)t}{R},\ t \in R.$

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

$x = \frac{7r}{6}\cos 6t - \frac{3r}{2}\cos 7t,\ y = \frac{7r}{6}\sin 6t - \frac{3r}{2}\sin 7t$

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

$R = \frac{r}{6},\ c = \frac{3r}{2}$



$x = \frac{7r}{6}\cos\varphi - \frac{3r}{2}\cos\frac{7\varphi}{6},\ y = \frac{7r}{6}\sin\varphi - \frac{3r}{2}\sin\frac{7\varphi}{6}$

$\varphi \in \langle 0\,;\ 12\pi \rangle$