Epicykloida – predĺžená

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

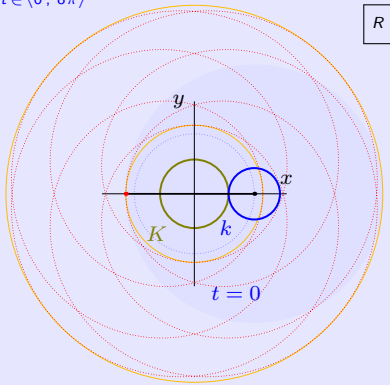
$x = (R+r)\cos\frac{rt}{R} - c\cos\frac{(R+r)t}{R},\ y = (R+r)\sin\frac{rt}{R} - c\sin\frac{(R+r)t}{R},\ t \in R.$

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

$x = \frac{7r}{3}\cos\frac{3t}{4} - 5r\cos\frac{7t}{4},\ y = \frac{7r}{3}\sin\frac{3t}{4} - 5r\sin\frac{7t}{4}$

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

$R = \frac{4r}{3},\ c = 5r$



$x = \frac{7r}{3}\cos\varphi - 5r\cos\frac{7\varphi}{3},\ y = \frac{7r}{3}\sin\varphi - 5r\sin\frac{7\varphi}{3}$

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