Epicykloida – skrátená

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

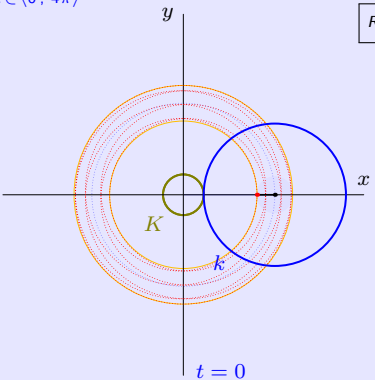
$x = (R+r)\cos\frac{rt}{R} - c\cos\frac{(R+r)t}{R},\ y = (R+r)\sin\frac{rt}{R} - c\sin\frac{(R+r)t}{R},\ t \in R.$

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

$x = \frac{9r}{7}\cos\frac{7t}{2} - \frac{r}{4}\cos\frac{9t}{2},\ y = \frac{9r}{7}\sin\frac{7t}{2} - \frac{r}{4}\sin\frac{9t}{2}$

$t \in \langle 0\,;\ 4\pi\rangle$

$R = \frac{2r}{7},\ c = \frac{r}{4}$



$x = \frac{9r}{7}\cos\varphi - \frac{r}{4}\cos\frac{9\varphi}{7},\ y = \frac{9r}{7}\sin\varphi - \frac{r}{4}\sin\frac{9\varphi}{7}$

$\varphi \in \langle 0\,;\ 14\pi\rangle$