Epicykloida – obyčajná

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

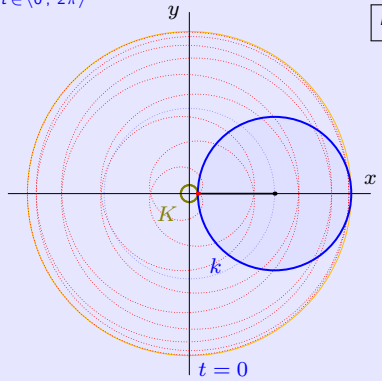
$x = (R+r)\cos\frac{rt}{R} - c\cos\frac{(R+r)t}{R},\ y = (R+r)\sin\frac{rt}{R} - c\sin\frac{(R+r)t}{R},\ t \in R.$

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

$x = \frac{10r}{9}\cos 9t - r\cos 10t,\ y = \frac{10r}{9}\sin 9t - r\sin 10t$

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

$R = \frac{r}{9},\ c = r$



$x = \frac{10r}{9}\cos\varphi - r\cos\frac{10\varphi}{9},\ y = \frac{10r}{9}\sin\varphi - r\sin\frac{10\varphi}{9}$

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