Epicykloida – obyčajná

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

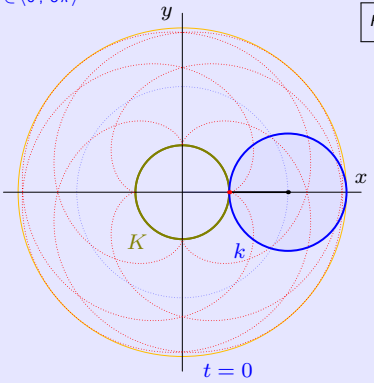
$x = (R+r)\cos\frac{rt}{R} - c\cos\frac{(R+r)t}{R},\ y = (R+r)\sin\frac{rt}{R} - c\sin\frac{(R+r)t}{R},\ t \in R.$

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

$x = \frac{9r}{5}\cos\frac{5t}{4} - r\cos\frac{9t}{4},\ y = \frac{9r}{5}\sin\frac{5t}{4} - r\sin\frac{9t}{4}$

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

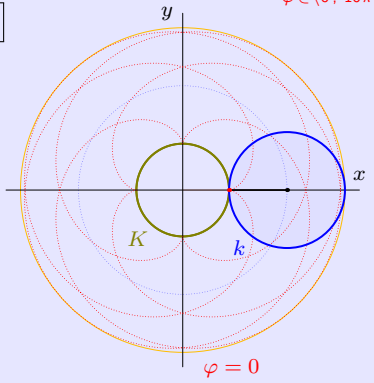
$R = \frac{4r}{5},\ c = r$



$t = 0$

$x = \frac{9r}{5}\cos\varphi - r\cos\frac{9\varphi}{5},\ y = \frac{9r}{5}\sin\varphi - r\sin\frac{9\varphi}{5}$

$\varphi \in \langle 0\,;\ 10\pi \rangle$



$\varphi = 0$