Epicykloida – obyčajná

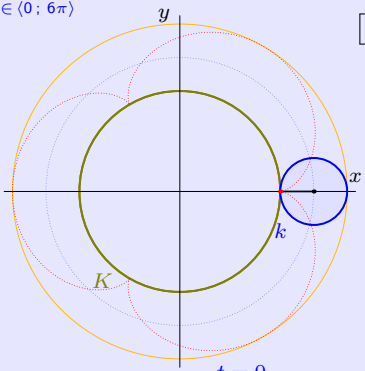
$c = r,\ R > 0,\ r > 0$

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

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

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

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

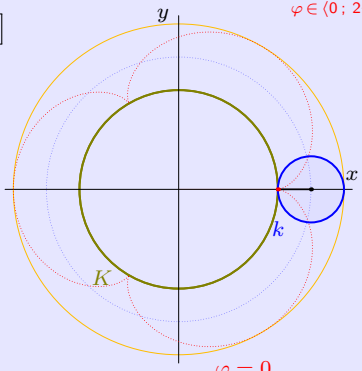


$t = 0$

$R = 3r,\ c = r$

$x = 4r\cos\varphi - r\cos 4\varphi,\ y = 4r\sin\varphi - r\sin 4\varphi$

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



$\varphi = 0$