Epicykloida – obyčajná

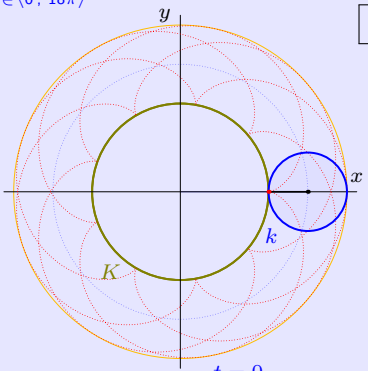
$c = r,\ R > 0,\ r > 0$

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

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

$x = \frac{13r}{4}\cos\frac{4t}{9} - r\cos\frac{13t}{9},\ y = \frac{13r}{4}\sin\frac{4t}{9} - r\sin\frac{13t}{9}$

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

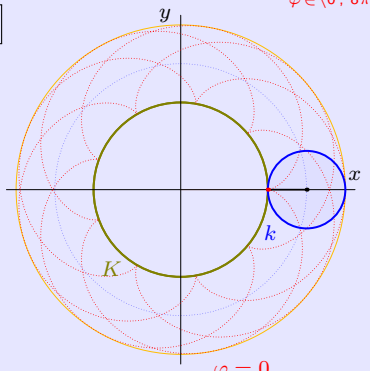


$t = 0$

$R = \frac{9r}{4},\ c = r$

$x = \frac{13r}{4}\cos\varphi - r\cos\frac{13\varphi}{4},\ y = \frac{13r}{4}\sin\varphi - r\sin\frac{13\varphi}{4}$

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



$\varphi = 0$