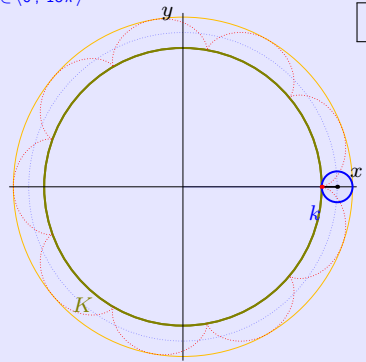
$x=(R+r)\cos\frac{rt}{R}-c\cos\frac{(R+r)t}{R},\ y=(R+r)\sin\frac{rt}{R}-c\sin\frac{(R+r)t}{R},\ t\in R.$

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

$x=\frac{11r}{2}\cos\frac{2t}{9}-r\cos\frac{11t}{9},\ y=\frac{11r}{2}\sin\frac{2t}{9}-r\sin\frac{11t}{9}$

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

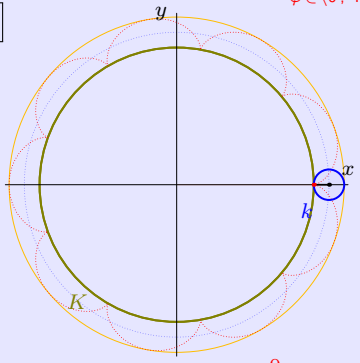
$R=\frac{9r}{2},\ c=r$



$t=0$

$x=\frac{11r}{2}\cos\varphi-r\cos\frac{11\varphi}{2},\ y=\frac{11r}{2}\sin\varphi-r\sin\frac{11\varphi}{2}$

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



$\varphi=0$