Hypocykloida – obyčajná

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

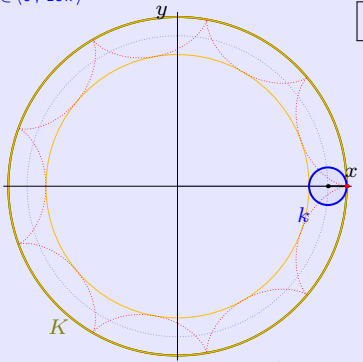
$x = (R-r)\cos\frac{rt}{R} + c\cos\frac{(R-r)t}{R}$, $y = (R-r)\sin\frac{rt}{R} - c\sin\frac{(R-r)t}{R}$, $t \in R$.

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

$x = \frac{7r}{2}\cos\frac{2t}{9} + r\cos\frac{7t}{9}$, $y = \frac{7r}{2}\sin\frac{2t}{9} - r\sin\frac{7t}{9}$

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

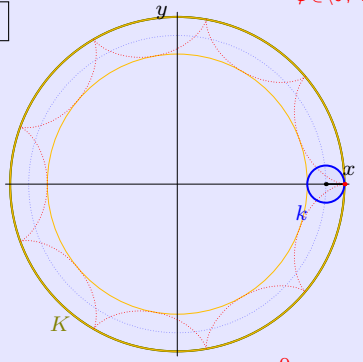
$R = \frac{9r}{2}$, $c = r$



$t = 0$

$x = \frac{7r}{2}\cos\varphi + r\cos\frac{7\varphi}{2}$, $y = \frac{7r}{2}\sin\varphi - r\sin\frac{7\varphi}{2}$

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



$\varphi = 0$