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

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

$x = 6r\cos\frac{t}{7} + \frac{r}{4}\cos\frac{6t}{7}$, $y = 6r\sin\frac{t}{7} - \frac{r}{4}\sin\frac{6t}{7}$

$t \in \langle 0 \, ; \, 14\pi \rangle$

$x = 6r\cos\varphi + \frac{r}{4}\cos 6\varphi$, $y = 6r\sin\varphi - \frac{r}{4}\sin 6\varphi$

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

$$R = 7r, \ c = \frac{r}{4}$$