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

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

$x = (1+\sqrt{2})r\cos\frac{t}{\sqrt{2}} - 4r\cos\frac{(1+\sqrt{2})t}{\sqrt{2}}$

$y = (1+\sqrt{2})r\sin\frac{t}{\sqrt{2}} - 4r\sin\frac{(1+\sqrt{2})t}{\sqrt{2}}$

$t \in \langle 0 \ ; \ 8.7681\pi \rangle$

$R = \sqrt{2}r, \ c = 4r$

$x = (1+\sqrt{2})r\cos\varphi - 4r\cos(1+\sqrt{2})\varphi$

$y = (1+\sqrt{2})r\sin\varphi - 4r\sin(1+\sqrt{2})\varphi$

$\varphi \in \langle 0 \ ; \ 6.2\pi \rangle$