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

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

$x = 2r\cos t - 4r\cos 2t,\ y = 2r\sin t - 4r\sin 2t$
$t \in \langle 0\,;\, 2\pi \rangle$

$x = 2r\cos \varphi - 4r\cos 2\varphi,\ y = 2r\sin \varphi - 4r\sin 2\varphi$
$\varphi \in \langle 0\,;\, 2\pi \rangle$

$$R = r,\ c = 4r$$