

Pericykloida – predĺžená

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

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

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

$$x = -\frac{5r}{8} \cos \frac{8t}{3}, \quad y = -\frac{5r}{8} \sin \frac{8t}{3}$$
$$t \in \langle 0; 6\pi \rangle$$

$$x = -\frac{5r}{8} \cos \varphi, \quad y = -\frac{5r}{8} \sin \varphi$$
$$\varphi \in \langle 0; 16\pi \rangle$$

$$R = \frac{3r}{8}, \quad c = 0$$