

Pericykloida – skrátená

$c > r > R > 0$

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

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

$$x = -\frac{r}{7} \cos \frac{7t}{6} + 3r \cos \frac{t}{6}, \quad y = -\frac{r}{7} \sin \frac{7t}{6} + 3r \sin \frac{t}{6} \quad \quad x = -\frac{r}{7} \cos \varphi + 3r \cos \frac{\varphi}{7}, \quad y = -\frac{r}{7} \sin \varphi + 3r \sin \frac{\varphi}{7}$$

$t \in \langle 0; 12\pi \rangle$ $\varphi \in \langle 0; 14\pi \rangle$

$$R = \frac{6r}{7}, \quad c = 3r$$