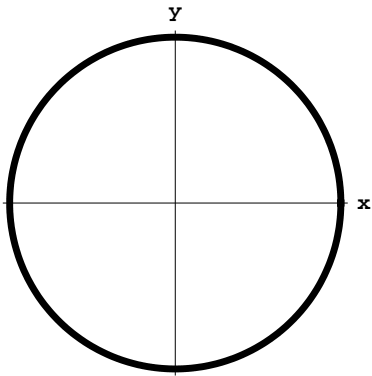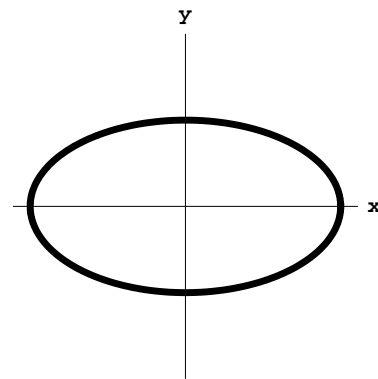**kružnice**

$x^2 + y^2 = r^2$

$\begin{cases} x = r\cos t, \\ y = r\sin t, \end{cases} \quad t \in \langle 0, 2\pi \rangle$

elipsa

$\dfrac{x^2}{a^2} + \dfrac{y^2}{b^2} = 1$
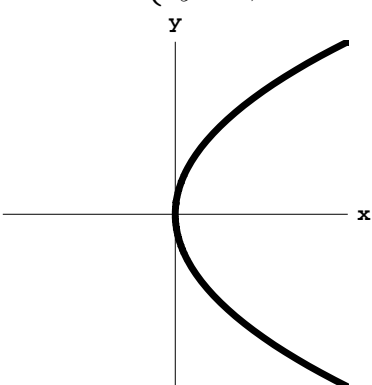
$\begin{cases} x = a\cos t, \\ y = b\sin t, \end{cases} \quad t \in \langle 0, 2\pi \rangle$

parabola

$x^2 = 2py, \begin{cases} x = t, \\ y = t^2/(2p), \end{cases} \quad t \in \mathbb{R}$

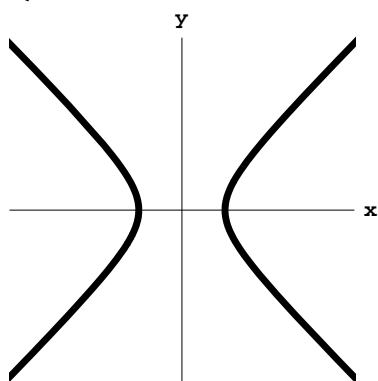$y^2 = 2px, \begin{cases} x = t^2/(2p), \\ y = t, \end{cases} \quad t \in \mathbb{R}$

hyperbola

$\dfrac{x^2}{a^2} - \dfrac{y^2}{b^2} = 1$

$\begin{cases} x = a\cosh t, \\ y = b\sinh t, \end{cases} \begin{cases} x = -a\cosh t, \\ y = b\sinh t, \end{cases} \quad t \in \mathbb{R}$
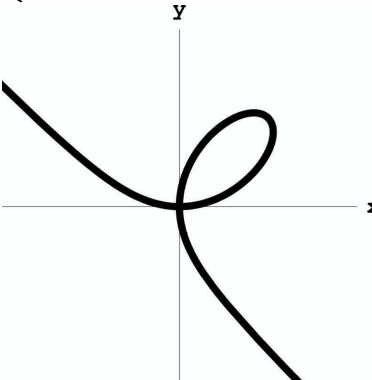
$\begin{cases} x = 1/2(t + 1/t), \\ y = 1/2(t - 1/t), \end{cases} \quad t \in \mathbb{R} \setminus \{0\}$

Descartův list

$x^3 + y^3 = 3axy$

$\begin{cases} x = 3at/(t^3 + 1), \\ y = 3at^2/(t^3 + 1), \end{cases} \quad t \in \mathbb{R} \setminus \{-1\}$

astroida

$x^{2/3} + y^{2/3} = a^{2/3}$

$\begin{cases} x = a\cos^3 t, \\ y = a\sin^3 t, \end{cases} \quad t \in \langle 0, 2\pi \rangle$