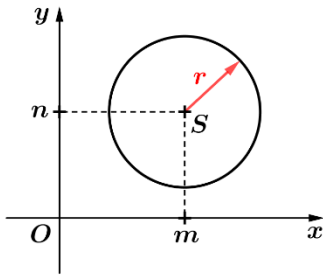


KUŽELOSEČKY

KRUŽNICE

$$(x - m)^2 + (y - n)^2 = r^2$$

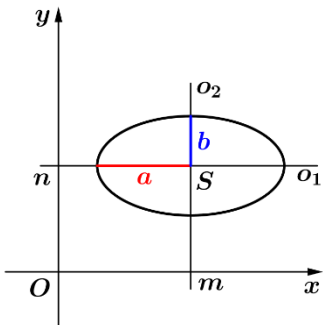


$S[m, n]$... střed kružnice

r ... poloměr kružnice

ELIPSA

$$\frac{(x - m)^2}{a^2} + \frac{(y - n)^2}{b^2} = 1$$

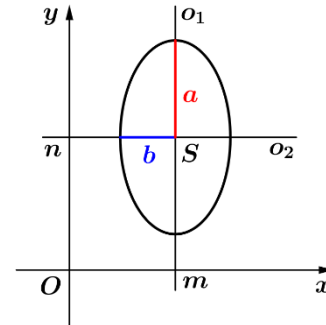


$S[m, n]$... střed elipsy

o_1 ... hlavní osa elipsy

o_2 ... vedlejší osa elipsy

$$\frac{(x - m)^2}{b^2} + \frac{(y - n)^2}{a^2} = 1$$



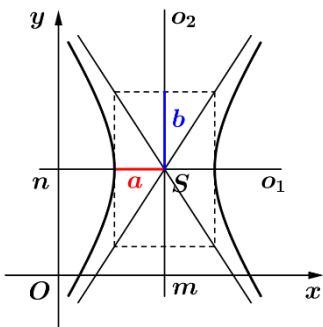
a ... délka hlavní poloosy

b ... délka vedlejší poloosy

$a > b$

HYPERBOLA

$$\frac{(x - m)^2}{a^2} - \frac{(y - n)^2}{b^2} = 1$$

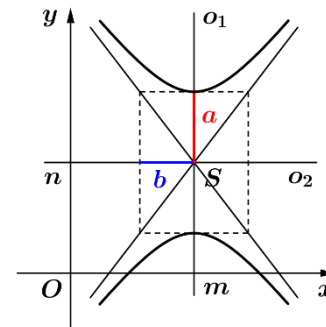


$S[m, n]$... střed hyperboly

o_1 ... hlavní osa hyperboly

o_2 ... vedlejší osa hyperboly

$$\frac{(y - n)^2}{a^2} - \frac{(x - m)^2}{b^2} = 1$$

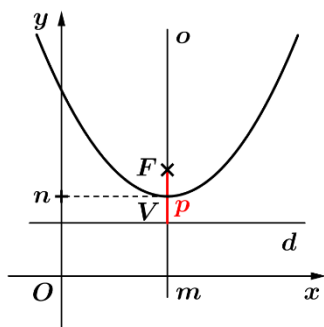


a ... délka hlavní poloosy

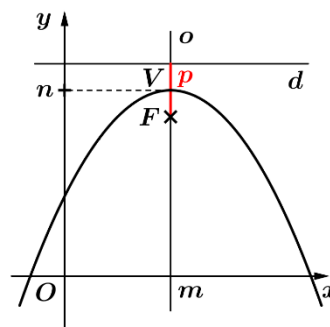
b ... délka vedlejší poloosy

PARABOLA

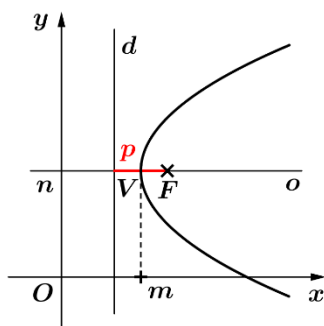
$$(x - m)^2 = 2p(y - n)$$



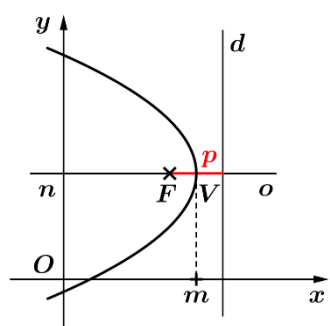
$$(x - m)^2 = -2p(y - n)$$



$$(y - n)^2 = 2p(x - m)$$



$$(y - n)^2 = -2p(x - m)$$



$V[m, n]$... vrchol paraboly

o ... osa paraboly

d ... řídící přímka

F ... ohnisko paraboly

p ... parametr