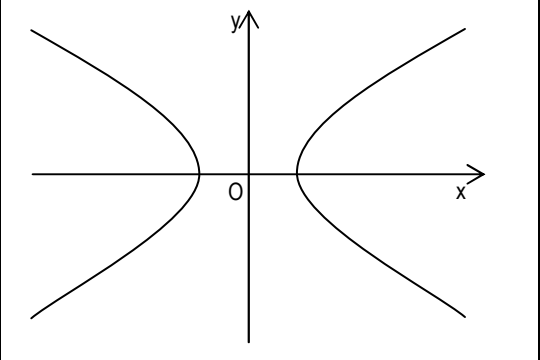
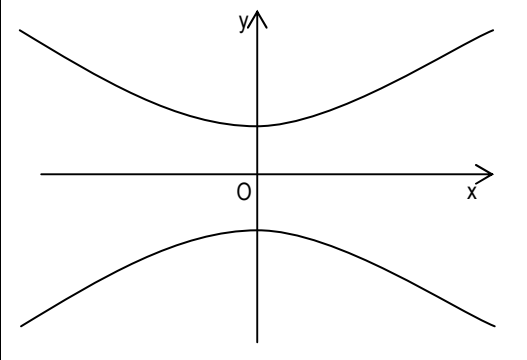


# IPERBOLE

Schema riassuntivo

Equazione	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = -1$
Disegno		
asse x	Asse trasverso	Asse non trasverso
asse y	Asse non trasverso	Asse trasverso
Vertici	$A_1 (a; 0) \quad A_2 (-a; 0)$	$B_1 (0; b) \quad B_2 (0; -b)$
Limitazioni	$x \leq -a \vee x \geq a$ $\forall y \in R$	$\forall x \in R$ $y \leq -b \vee y \geq b$
Fuochi	$F_1 (c; 0) \quad F_2 (-c; 0)$	$F_1 (0; c) \quad F_2 (0; -c)$
	$c = \sqrt{a^2 + b^2}$	
Asintoti	$y = \pm \frac{b}{a} x$	
Eccentricità	$e = \frac{c}{a}$	$e = \frac{c}{b}$
	$e > 1$	

Caso particolare: IPERBOLE EQUILATERA

$a = b$	Equazione	$x^2 - y^2 = a^2$	$x^2 - y^2 = -a^2$
	Fuochi	$F_1 (c; 0) \quad F_2 (-c; 0)$	$F_1 (0; c) \quad F_2 (0; -c)$
		$c = a \sqrt{2}$	
	Asintoti	$y = \pm x$	
	Eccentricità	$e = \sqrt{2}$	