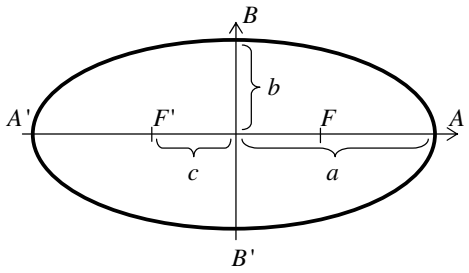
Ellisse

$$\frac{x^2}{a^2}+\frac{y^2}{b^2}=1 \qquad a^2=b^2+c^2$$



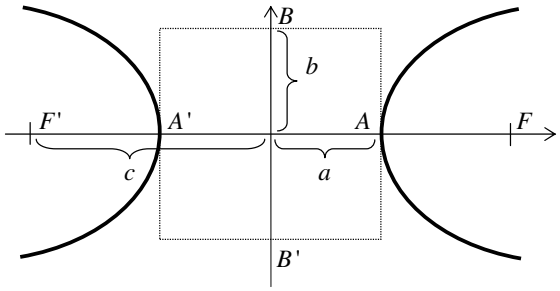
Semiasse maggiore = a
Semiasse minore = b
Semidistanza focale = c

Eccentricità $e=\frac{c}{a},\ e<1$

Vertici $A'(-a, 0),\ A(a, 0),\ B'(0, -b),\ B(0, b)$
Fuochi $F'(-c, 0),\ F(c, 0)$

Iperbole

$$\frac{x^2}{a^2}-\frac{y^2}{b^2}=1 \qquad c^2=a^2+b^2$$



Semiasse trasverso = a
Semiasse non trasverso = b
Semidistanza focale = c

Eccentricità $e=\frac{c}{a},\ e>1$

Vertici $A'(-a, 0),\ A(a, 0)$
Fuochi $F'(-c, 0),\ F(c, 0)$
Asintoti: $y=\pm\frac{b}{a}x$

Parabola

$y^2=2px$

Vertice: $V(0, 0)$

Direttrice $x=-\frac{p}{2}$

Fouco $F\left(\frac{p}{2}, 0\right)$