## Caratteristiche delle coniche, scritte in forma canonica

La parabola y=ax<sup>2</sup>+bx+c



$$V\left(-\frac{b}{2a}; \frac{4ac-b^2}{4a}\right)$$

Fuoco(F)

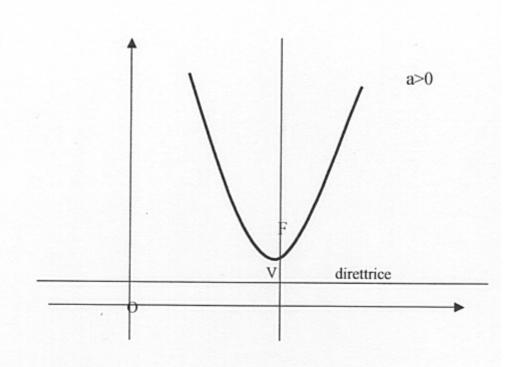
$$F\left(-\frac{b}{2a};\frac{4ac-b^2+1}{4a}\right)$$

Direttrice

$$y = \frac{4ac - b^2 - 1}{4a}$$

asse di simmetria

$$x = \frac{-b}{2a}$$



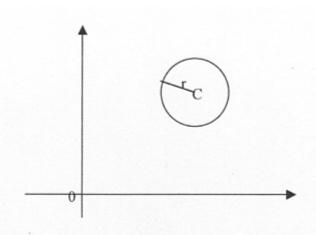
# La circonferenza x²+y²+ax+by+c=0

# Centro(C)

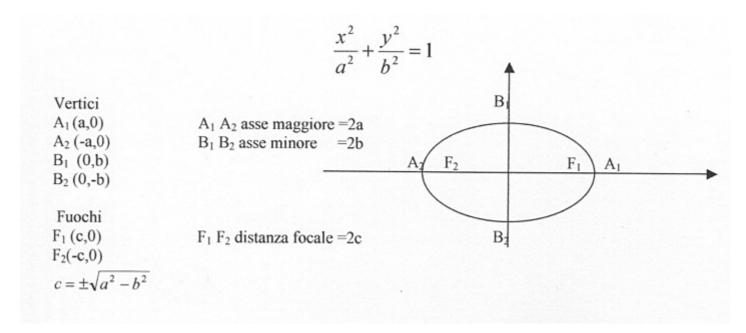
$$C\left(\frac{-a}{2}, \frac{-b}{2}\right)$$

Raggio(r)

$$r = \sqrt{\frac{a^2}{4} + \frac{b^2}{4} - c}$$



#### Ellisse



## **Iperbole**

