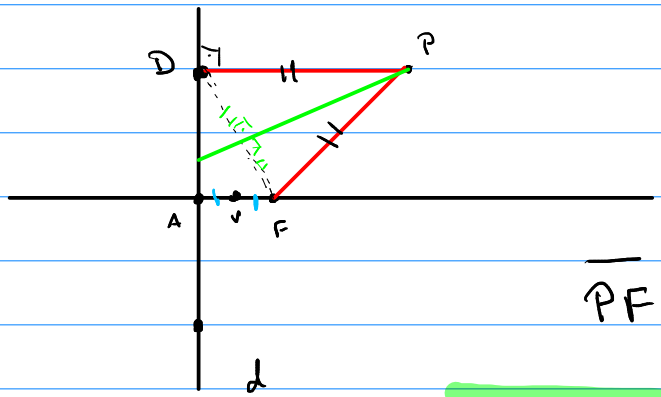
PARÁBOLA

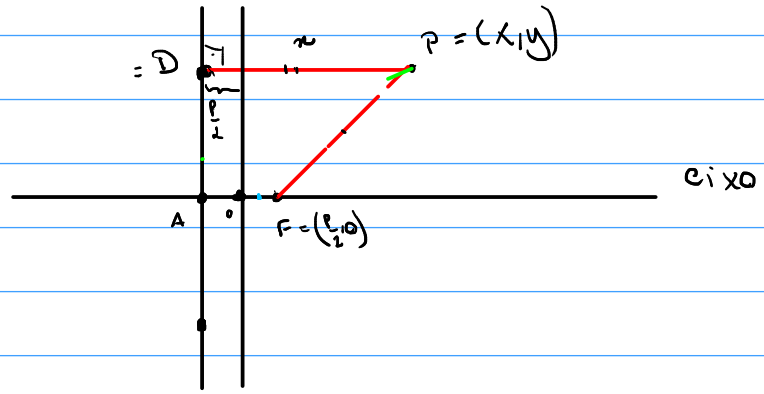
Definição: São dados uma reta d e um ponto $P \notin d$. O conjunto dos pontos que equidistam de F e de d é a parábola de foco F e diretriz d.



$\overline{PF} = \overline{PD}$; $Af = p$ = parâmetro.

A parábola possui um eixo de simetria

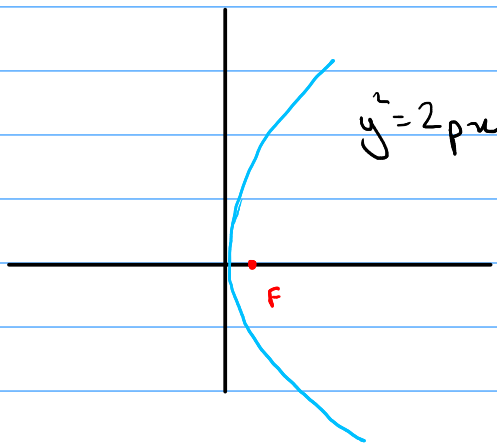
EQUAÇÃO:

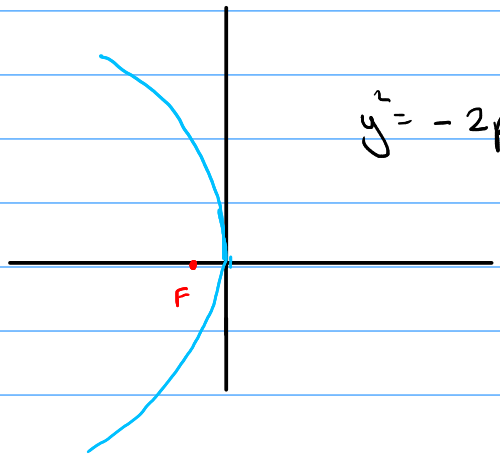


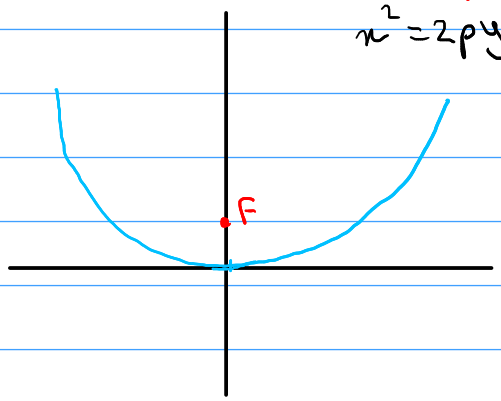
$$\therefore \sqrt{\left(x-\frac{p}{2}\right)^2+y^2} = x+\frac{p}{2}.$$

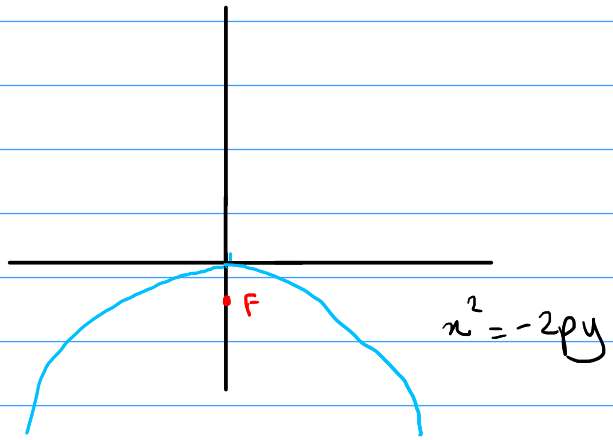
Desenvolvendo: $y^2 = 2px$.

p é parâmetro; concavidade para a direita; (AF) ; vértice na origem.









PROPRIEDADE REFLETORA: