

**Elipse**

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

Semieje mayor =  $a$

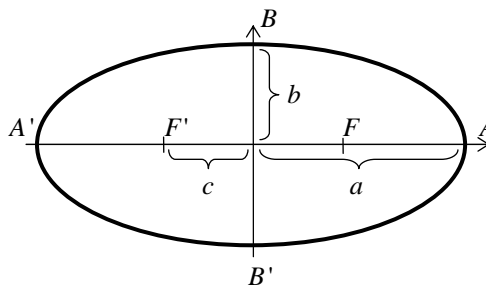
Semieje menor =  $b$

Semidistancia focal =  $c$

Excentricidad  $e = \frac{c}{a}$ ,  $e < 1$

Vértices  $A'(-a, 0)$ ,  $A(a, 0)$ ,  $B'(0, -b)$ ,  $B(0, b)$

Focos  $F'(-c, 0)$ ,  $F(c, 0)$



**Hipérbola**

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

Semieje =  $a$

Semidistancia focal =  $c$

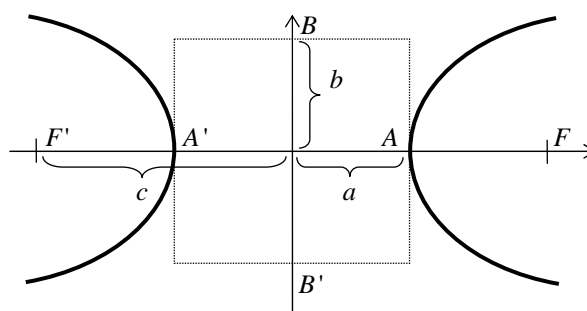
Excentricidad  $e = \frac{c}{a}$ ,  $e > 1$

Vértices reales  $A'(-a, 0)$ ,  $A(a, 0)$

Vértices imaginarios  $B'(0, -b)$ ,  $B(0, b)$

Focos:  $F'(-c, 0)$ ,  $F(c, 0)$

Asíntotas:  $y = \pm \frac{b}{a}x$



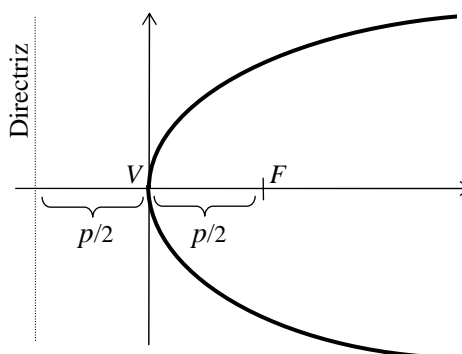
**Parábola**

$$y^2 = 2px$$

Vértice:  $V(0, 0)$

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

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



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**Software destacado****Generadores de Colecciones de Ejercicios y Problemas**[www.vaxasoftware.com/gp/index.html](http://www.vaxasoftware.com/gp/index.html)**WinVal - Valoraciones ácido-base**[www.vaxasoftware.com/soft\\_edu/winval.html](http://www.vaxasoftware.com/soft_edu/winval.html)**HEstadis - Herramientas de Estadística y Probabilidad**[www.vaxasoftware.com/soft\\_edu/hestadis.html](http://www.vaxasoftware.com/soft_edu/hestadis.html)**EABW - Equilibrios ácido-base para Windows**[www.vaxasoftware.com/soft\\_edu/eabw.html](http://www.vaxasoftware.com/soft_edu/eabw.html)**SDES - Simulador de destilaciones para Windows**[www.vaxasoftware.com/soft\\_edu/sdes.html](http://www.vaxasoftware.com/soft_edu/sdes.html)**FunGraf - Gráficas de funciones matemáticas**[www.vaxasoftware.com/soft\\_edu/fungraf.html](http://www.vaxasoftware.com/soft_edu/fungraf.html)

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