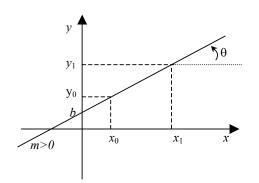
Geometria Analítica

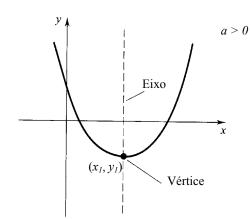
1. Recta

$$y - y_0 = \frac{y_1 - y_0}{x_1 - x_0} (x - x_0)$$

$$y = m x + b$$
; $m = \frac{y_1 - y_0}{x_1 - x_0} = \text{tg } \theta$

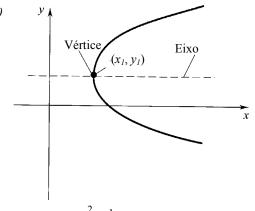


2. Parábola



$$y = ax^{2} + bx + c$$

 $y = a(x - x_{1})^{2} + y_{1}$



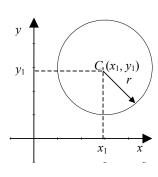
$$x = ay^{2} + by + c$$

 $x = a(y - y_{1})^{2} + x_{1}$

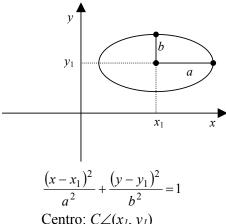
3. Circunferência

$$(x-x_1)^2 + (y-y_1)^2 = r^2$$

Centro: $C \angle (x_l, y_l)$ Raio = r

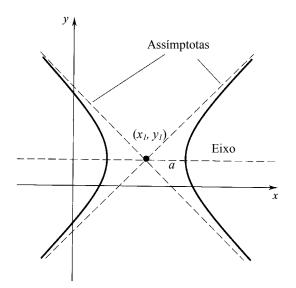


4. Elipse



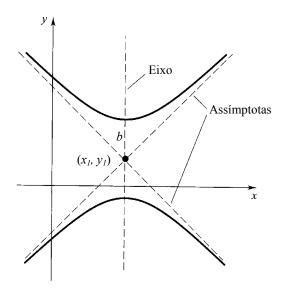
Centro: $C \angle (x_I, y_I)$

5. Hipérbole



$$\frac{(x-x_1)^2}{a^2} - \frac{(y-y_1)^2}{b^2} = 1$$

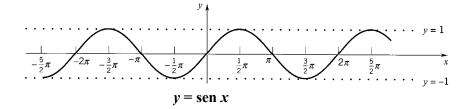
Centro: $C \angle (x_l, y_l)$

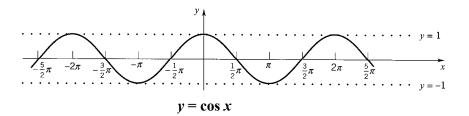


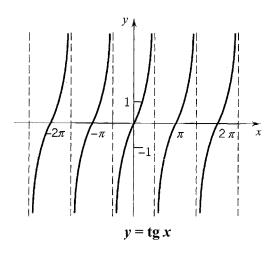
$$\frac{(y-y_1)^2}{b^2} - \frac{(x-x_1)^2}{a^2} = 1$$

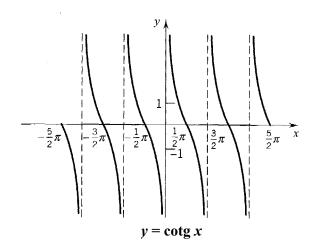
Centro: $C \angle (x_l, y_l)$

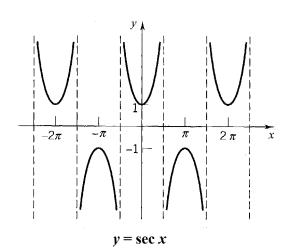
Funções trigonométricas

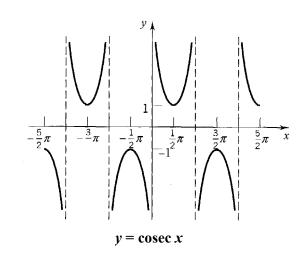


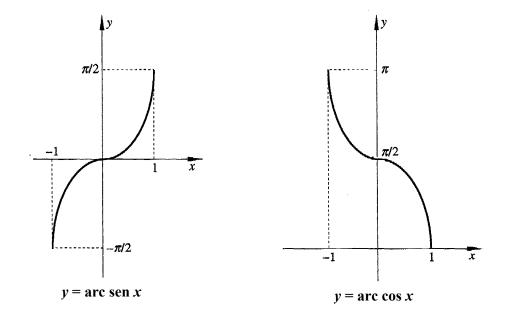


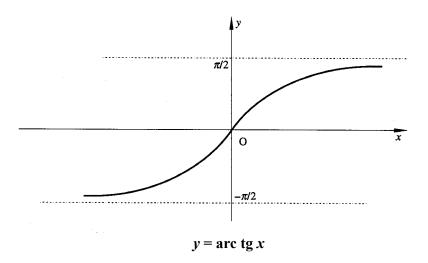




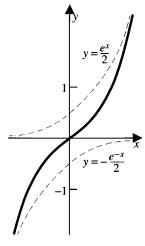








Funções hiperbólicas



 $y = \operatorname{senh} x$

