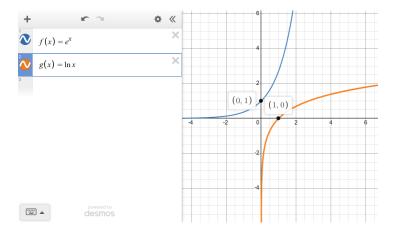
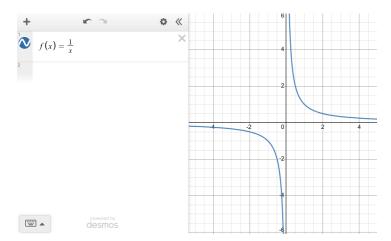
Gráficas notables

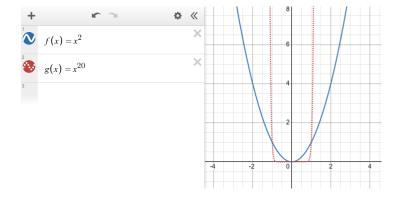
Exponencial natural y logarítmica natural



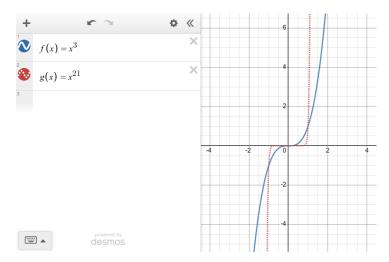
Inversa



$$x^n$$
; $n\%2 = 0$



x^n ; $n\%2 \neq 0$

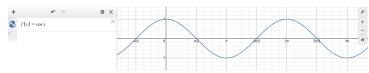


Trigonométricas

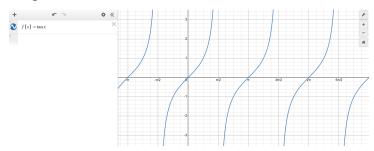
Seno



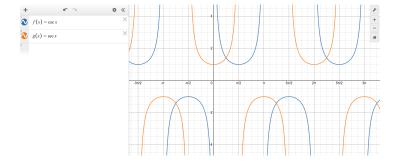
Coseno



Tangente



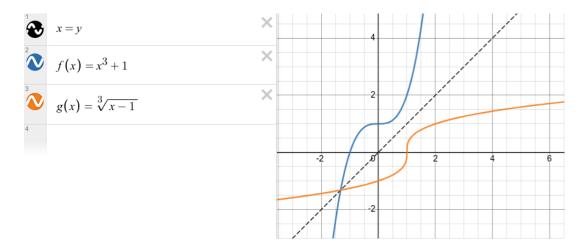
Secante y cosecante



Inversa

Graficar

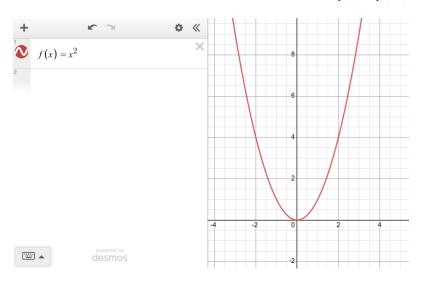
Si g(x) es inversa de f(x). Grafica la reflección de f(x) en x = y.



Simetría

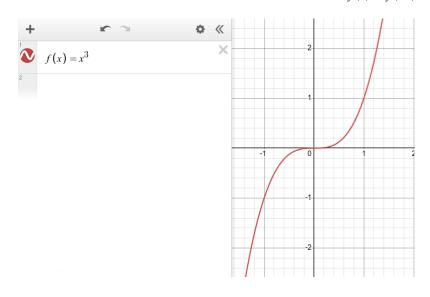
y de x (par)

$$f(x) = f(-x)$$



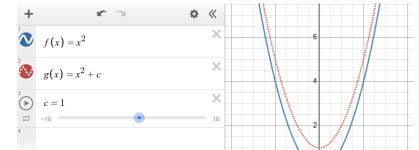
y de x (impar)

$$-f(x) = f(-x)$$



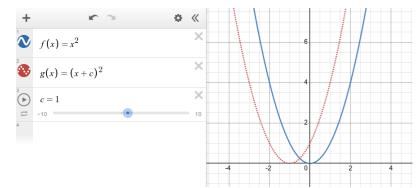
Transformaciones

$$y = f(x) + c$$





$$+c \leftarrow \S -c \rightarrow$$

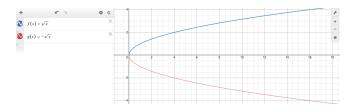


$$y = f(-x)$$

↑

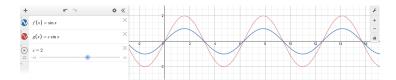


$$y = -f(x)$$



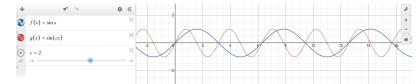
$$y = cf(x)$$

Extiende amplitud

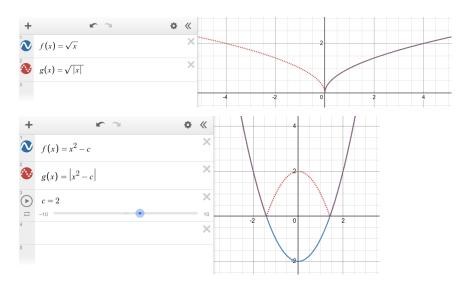


$$y = f(cx)$$

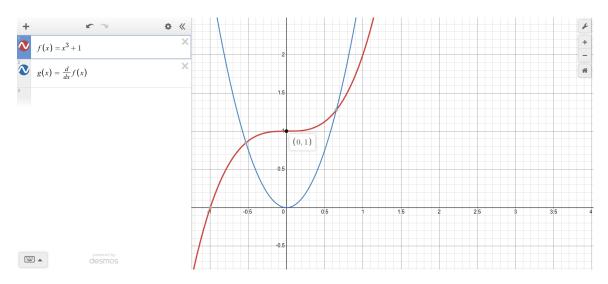
Reduce longitud de onda



Valor absoluto



Derivada de una función



Pasos para graficar una función

1. Cortes con los ejes

Cortes eje x: f(x) = 0

Cortes eje y: f(0)

2. Dominio

Valores no definidos: c_i

3. Asíntotas

Asíntota horizontal: $\lim_{x \to -\infty} f(x)$; $\lim_{x \to +\infty} f(x)$

 c_i es asíntota vertical $\iff \lim_{x \to c_i} f(x) = \infty$

4. Intevalos de monotonía

Se relacionan con la primera derivada.

