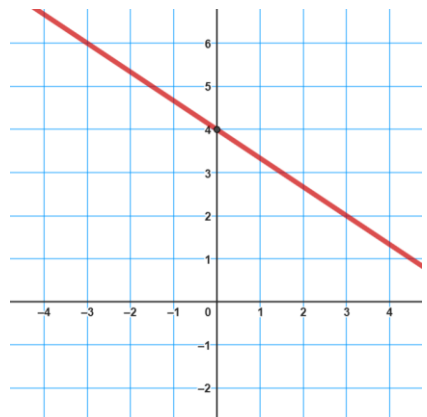
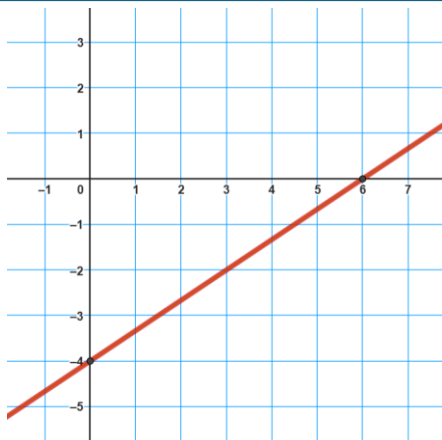
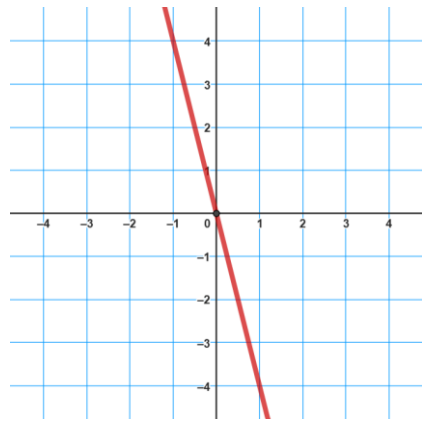
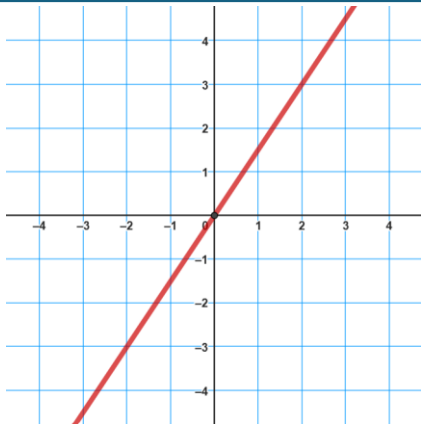
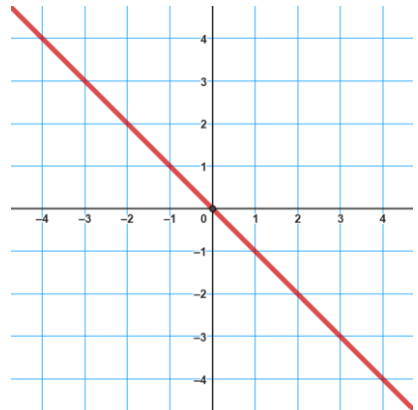
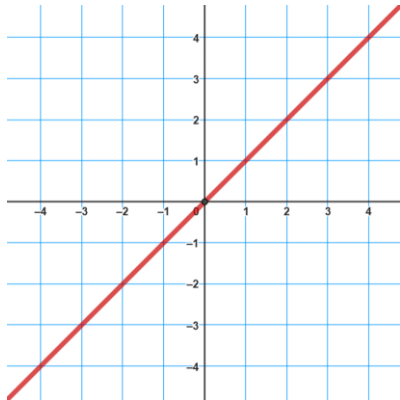
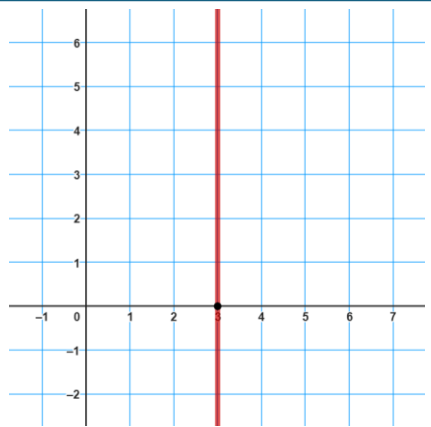
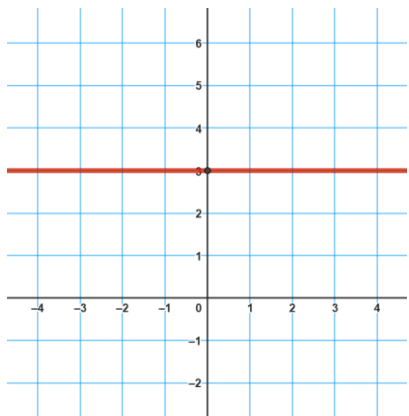




$$y = 3$$

$$x = 3$$

$$y = x$$

$$y = -x$$

$$y = \frac{3}{2}x$$

$$y = -4x$$

$$y = \frac{2}{3}x - 4$$

$$y = -\frac{2}{3}x + 4$$

constante

**Puede ser AH
de otra función**

no es función

**Puede ser AV
de otra función**

**bisectriz de
1^{er} y 3^{er}
cuadrantes**

**bisectriz de
2^o y 4^o
cuadrantes**

pendiente 3/2

Pasa por (0,0)

pendiente -4

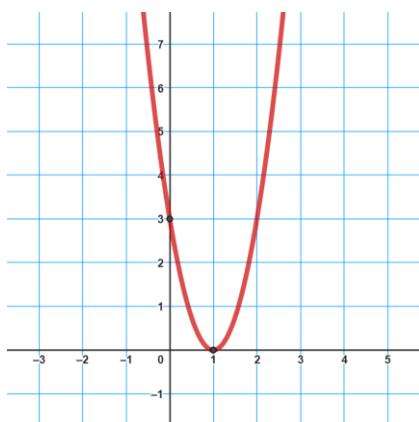
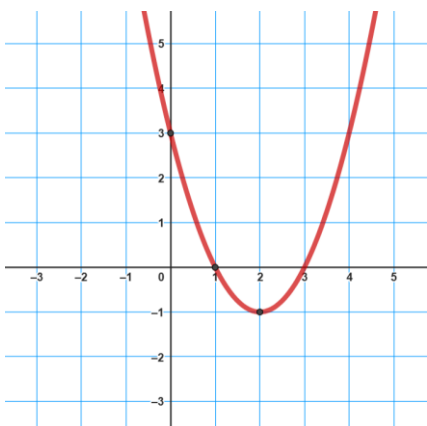
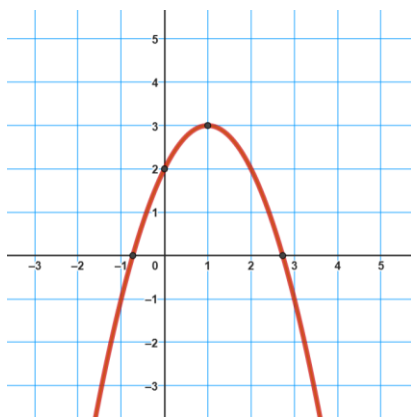
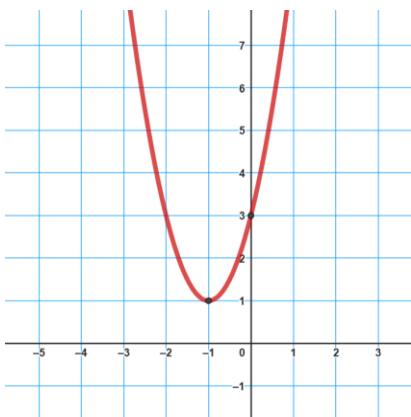
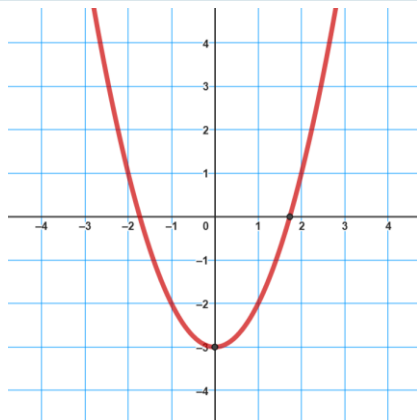
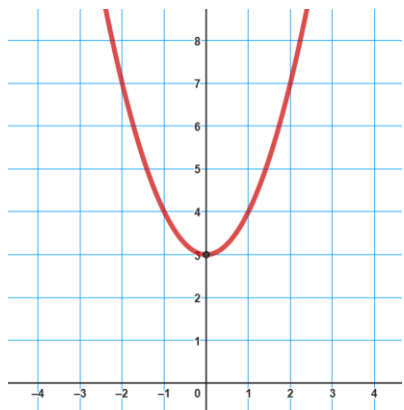
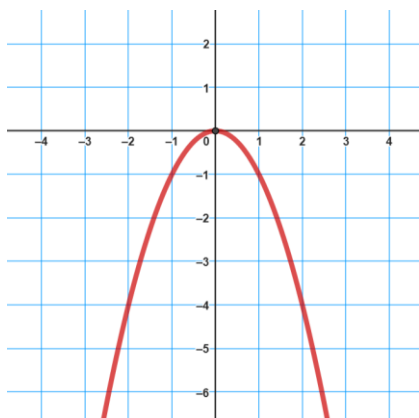
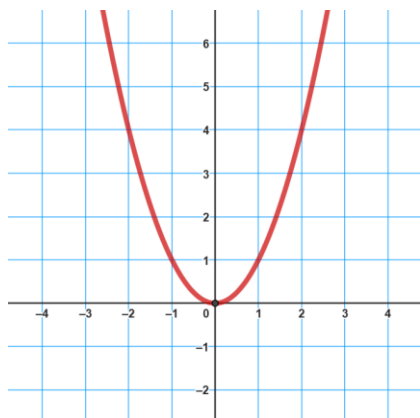
Pasa por (0,0)

Sin curvatura

**Ordenada en
origen -4**

Pasa por (3,2)

Pasa por (6,0)



$$y = x^2$$

$$y = -x^2$$

$$y = x^2 + 3$$

$$y = x^2 - 3$$

$$y = 2x^2 + 4x + 3$$

$$y = -(x - 1)^2 + 3$$

$$y = (x - 1)(x - 3)$$

$$y = 3(x - 1)^2$$

$V(0, 0) A(2, 4)$

Recorrido $[0, +\infty)$

$V(0, 0)$

Recorrido $(-\infty, 0]$

$V(0, 3)$

Recorrido $[3, +\infty)$

Par

Recorrido $[-3, +\infty)$

Simetría en $x = -1$

Sin cortes con eje OX

$\nearrow: (-\infty, 1)$

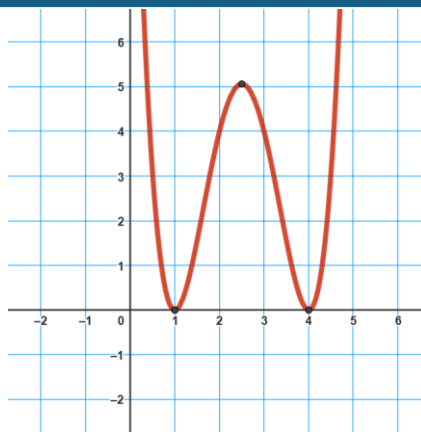
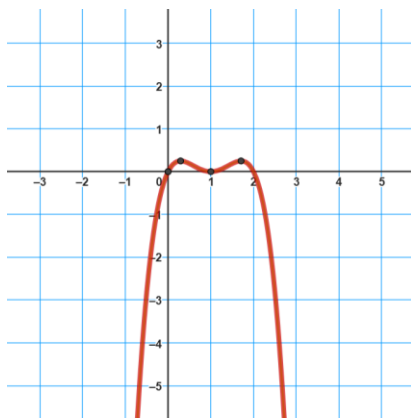
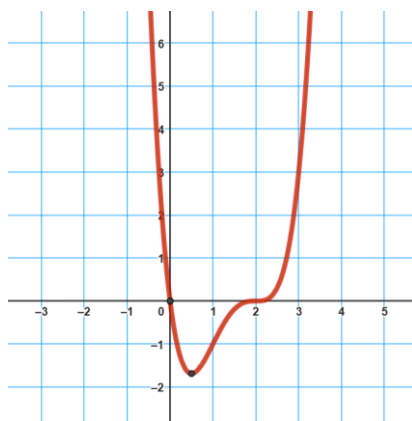
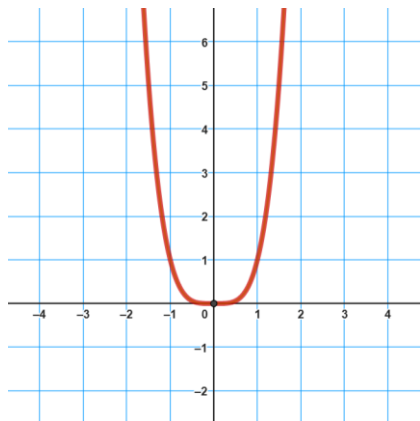
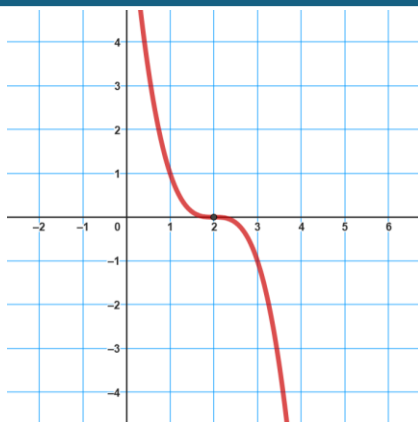
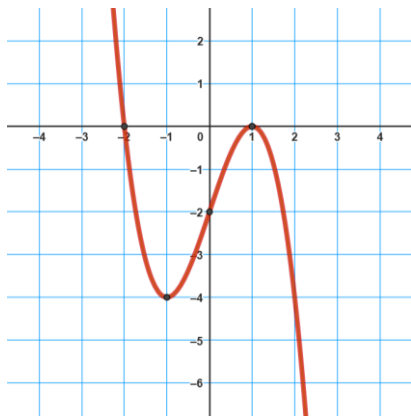
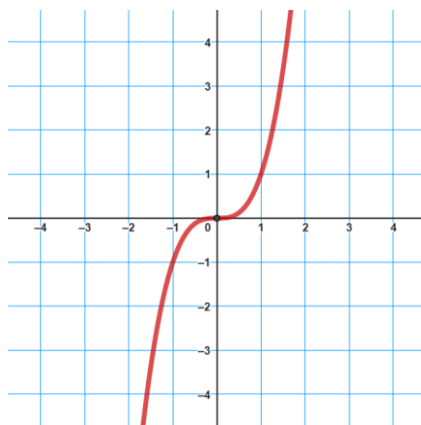
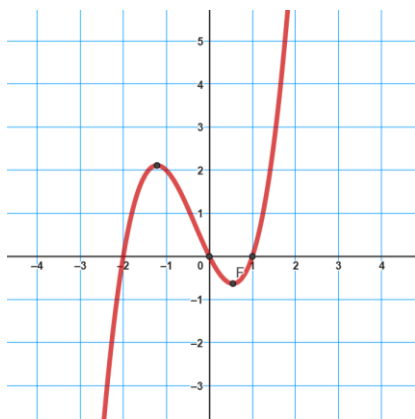
$\searrow: (1, +\infty)$

Polinómica

**Cortes eje OX
en $x = 1$ y $x = 3$**

Cuadrática

**Corte eje OX
en $x = 1$ (rebote)**



$$y = x(x - 1)(x + 2)$$

$$y = x^3$$

$$y = -(x - 1)^2(x + 2)$$

$$y = -(x - 2)^3$$

$$y = x^4$$

$$y = x(x - 2)^3$$

$$y = -x(x - 1)^2(x - 2)$$

$$y = (x - 1)^2(x - 4)^2$$

Polinómica

**cortes eje OX
en 0, 1 y -2**

**Punto de inflexión
en $x = 0$**

Impar

**Cortes en $x = -2$
y en $x = 1$ (rebote)**

Polinómica grado 3

**Punto de inflexión
y de silla
en $x = 2$**

Decreciente

$V(0, 0)$

**No es parábola
Recorrido $[0, +\infty)$**

Mínimo en $x = 0,5$

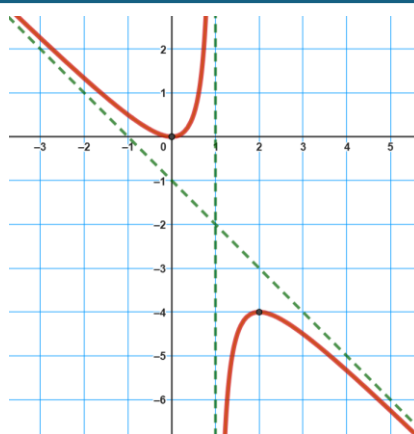
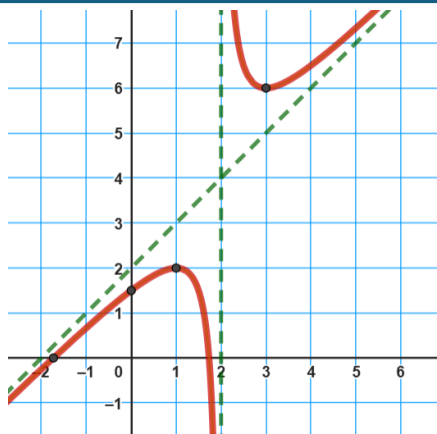
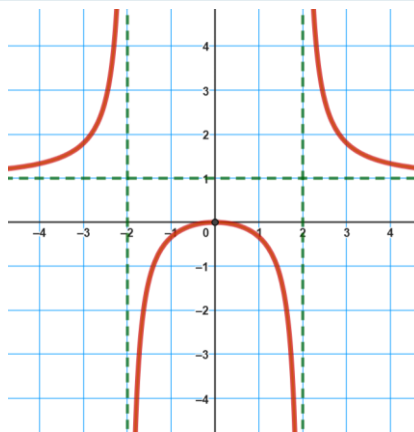
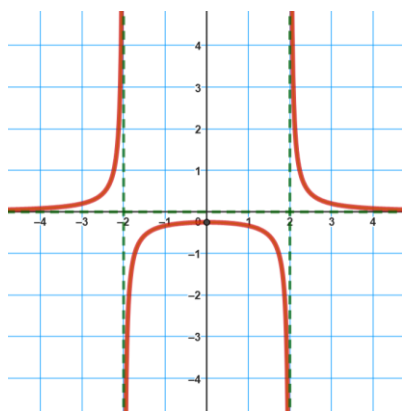
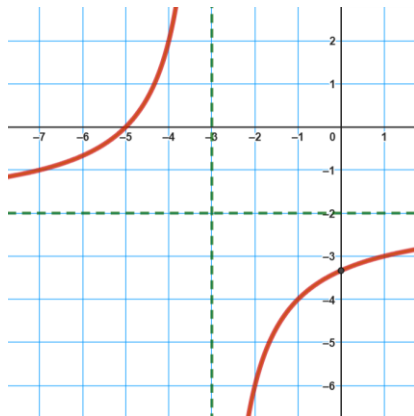
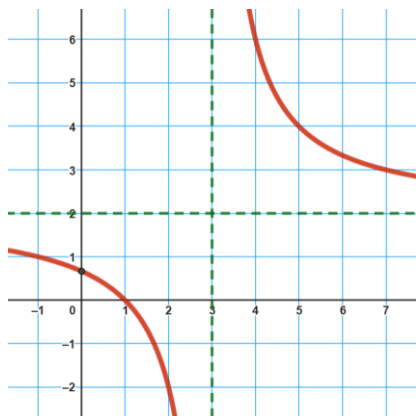
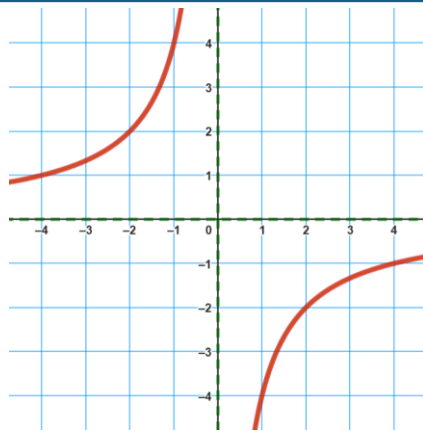
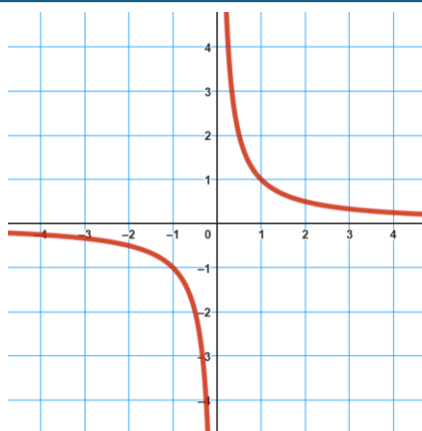
**Punto de silla
en $x=2$**

**Eje de simetría
en $x = 1$**

Polinómica grado 4

**Mínimos en los
cortes con eje X**

Polinómica grado 4



$$y = \frac{1}{x}$$

$$y = -\frac{4}{x}$$

$$y = \frac{4}{x-3} + 2$$

$$y = -\frac{4}{x+3} - 2$$

$$y = \frac{1}{x^2 - 4}$$

$$y = \frac{x^2}{x^2 - 4}$$

$$y = \frac{x^2 - 3}{x - 2}$$

$$y = \frac{-x^2}{x - 1}$$

AV en $x = 0$
AH en $y = 0$

Decreciente

AV en $x = 0$
AH en $y = 0$

Creciente

AV en $x = 3$

AH en $y = 2$

AV en $x = -3$

AH en $y = -2$

Racional
AV en $x = -2$
AV en $x = 2$
AH en $y = 0$

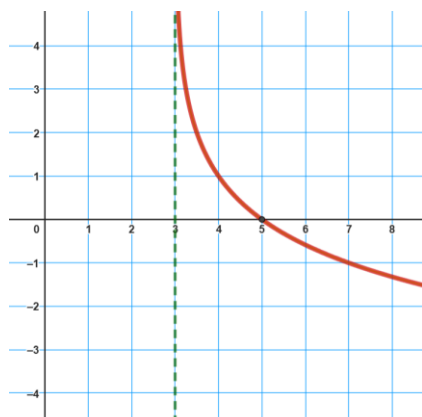
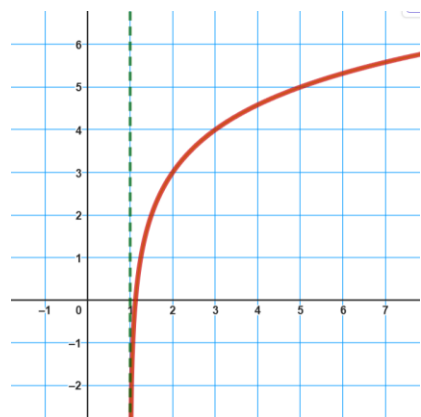
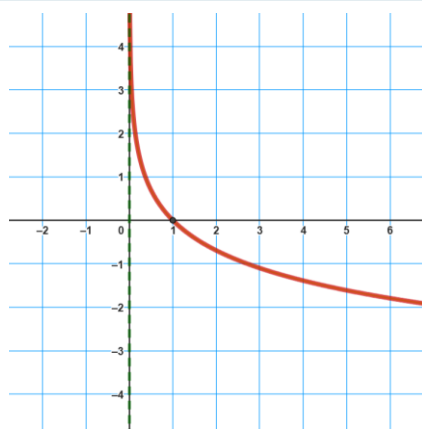
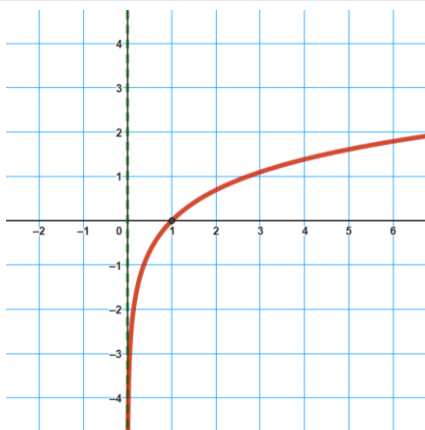
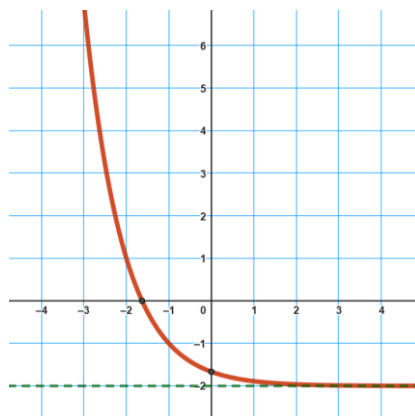
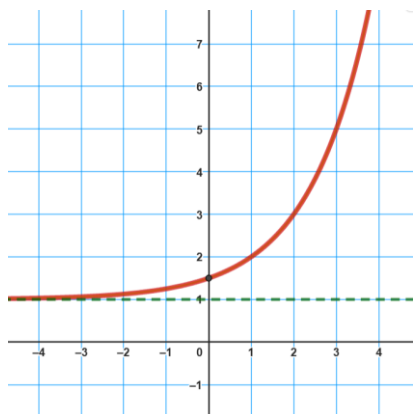
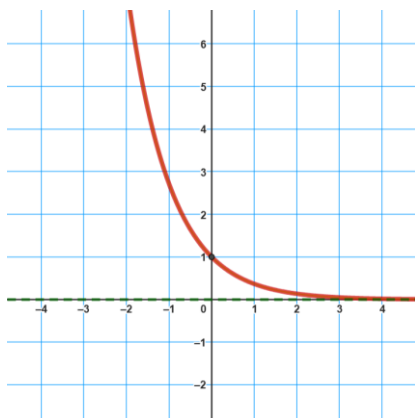
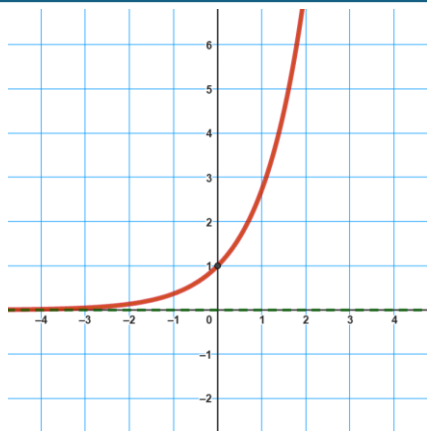
Racional
AV en $x = -2$
AV en $x = 2$
AH en $y = 1$

Racional

AV en $x = 2$
AO en $y = x + 2$

Racional

AV en $x = 1$
AO en $y = -x - 1$



$$y = e^x$$

$$y = e^{-x}$$

$$y = \frac{1}{e^x} \quad y = \left(\frac{1}{e}\right)^x$$

$$y = 2^{x-1} + 1$$

$$y = 3^{-(x-1)} - 2$$

$$y = \ln x$$

$$y = \log_{1/e} x$$

$$y = \ln \left(\frac{1}{x} \right)$$

$$y = \ln x^{-1}$$

$$y = \log_2(x - 1) + 3$$

$$y = \log_{\frac{1}{2}}(x - 3) + 1$$

**exponencial
creciente
asíntota $y = 0$**

**exponencial
decreciente
asíntota $y = 0$**

**exponencial
creciente
asíntota $y = 1$**

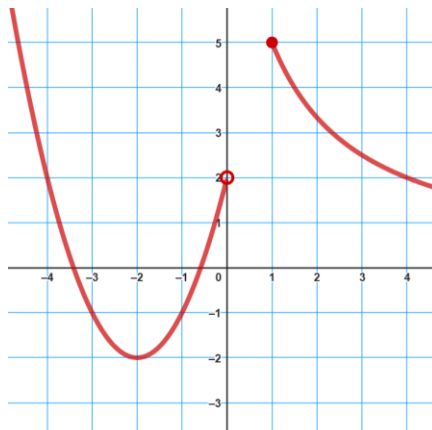
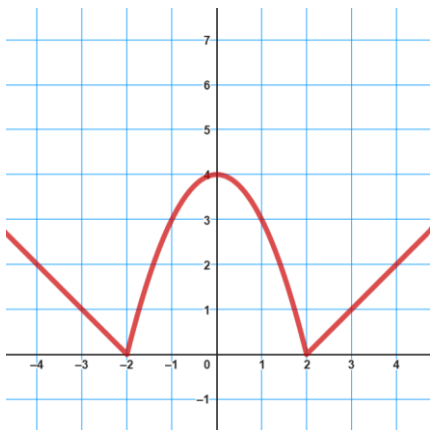
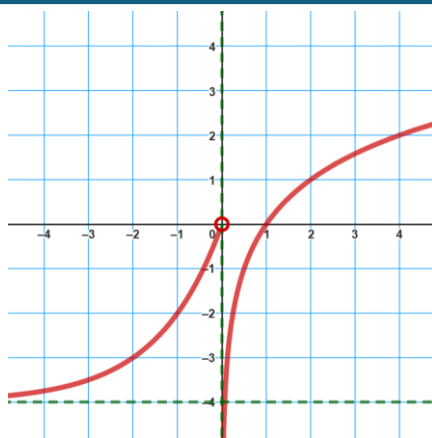
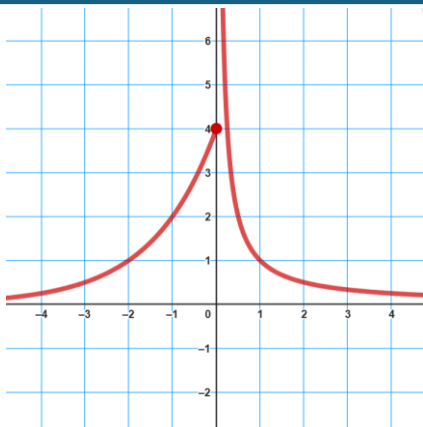
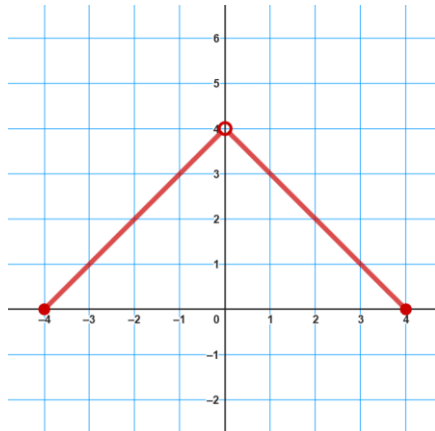
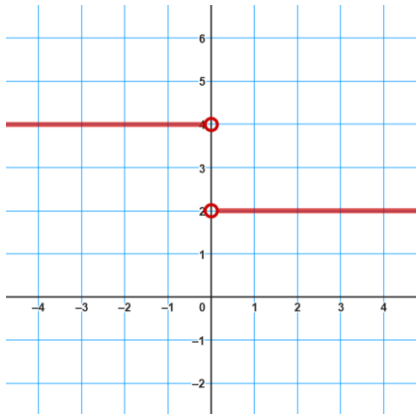
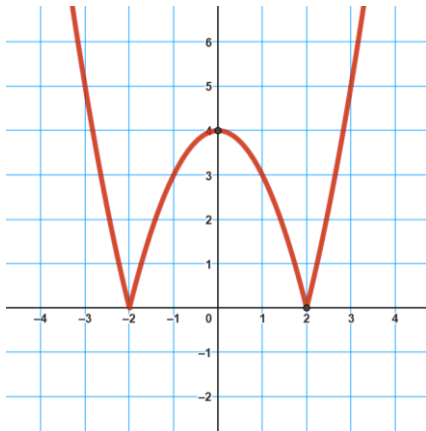
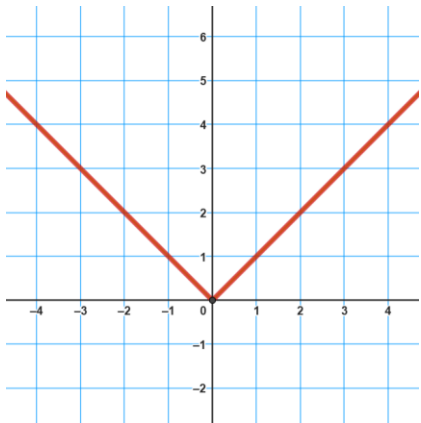
**exponencial
decreciente
asíntota $y = -2$**

**logarítmica
creciente
asíntota $x = 0$**

**logarítmica
decreciente
asíntota $x = 0$**

**logarítmica
creciente
asíntota $x = 1$**

**logarítmica
decreciente
asíntota $x = 3$**



$$y = |x|$$

$$y = |x^2 - 4|$$

$$y = \begin{cases} 4 & \text{si } x < 0 \\ 2 & \text{si } x > 0 \end{cases}$$

$$y = \begin{cases} x + 4 & \text{si } -4 \leq x < 0 \\ -x + 4 & \text{si } 0 < x \leq 4 \end{cases}$$

$$y = \begin{cases} 2^{x+2} & \text{si } x \leq 0 \\ \frac{1}{x} & \text{si } x > 0 \end{cases}$$

$$y = \begin{cases} 2^{x+2} - 4 & \text{si } x < 0 \\ \log_2 x & \text{si } x > 0 \end{cases}$$

$$y = \begin{cases} -x - 2 & \text{si } x < -2 \\ -x^2 + 4 & \text{si } -2 \leq x \leq 2 \\ x - 2 & \text{si } x > 2 \end{cases}$$

$$y = \begin{cases} (x + 2)^2 - 2 & \text{si } x < 0 \\ \frac{10}{x + 1} & \text{si } x \geq 1 \end{cases}$$

Valor absoluto

Mínimo en $(0,0)$

Valor absoluto

**Mínimos en
 $(-2,0)$ y $(2,0)$**

Dominio $\mathbb{R} - \{0\}$

Recorrido $\{2, 4\}$

Dominio $[-4, 4] - \{0\}$

Recorrido $[0, 4)$

Dominio $\mathbb{R}$

No continua en $x = 0$

Recorrido $(0, \infty)$

Dominio $\mathbb{R} - \{0\}$

AV en $x = 0$

AH en $y = -4$

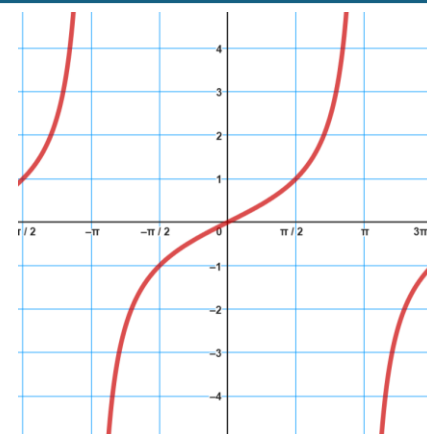
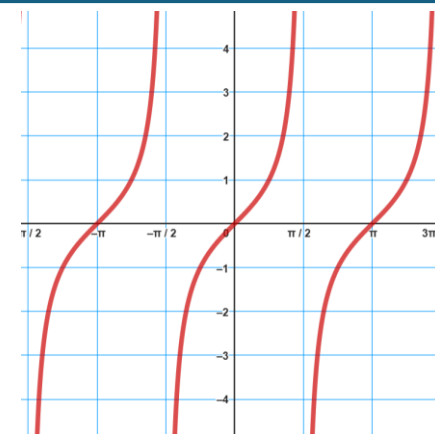
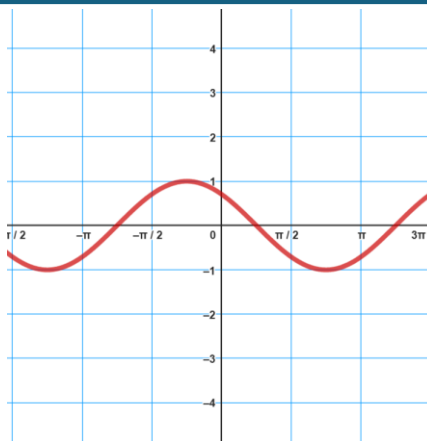
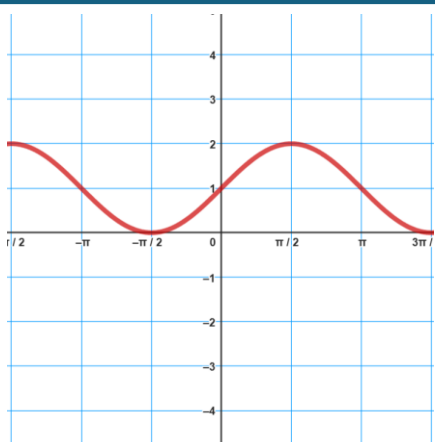
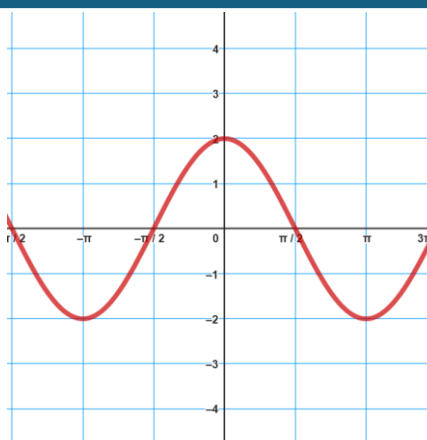
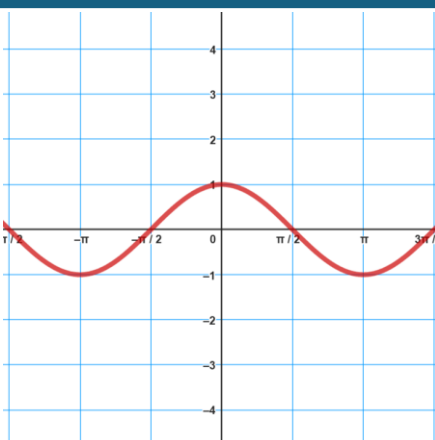
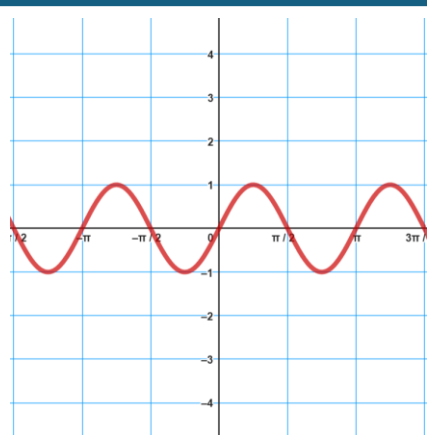
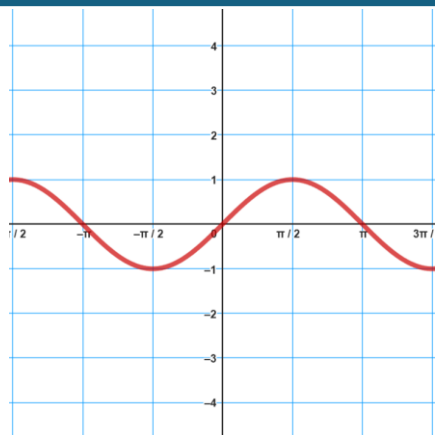
A trozos, par

Recorrido $(0, \infty)$

No valor absoluto

Dominio $\mathbb{R} - [0, 1)$

Recorrido $[-2, \infty)$



$$y = \textit{sen}x$$

$$y = \textit{sen}2x$$

$$y = \textit{cos}x$$

$$y = 2\textit{cos}x$$

$$y = 1 + \textit{sen}x$$

$$y = \textit{cos}\left(x + \frac{\pi}{4}\right)$$

$$y = \textit{tg}(x)$$

$$y = \textit{tg}\left(\frac{x}{2}\right)$$

Periodo 2π
Pasa por $(0,0)$

Periodo π
Pasa por $(0,0)$

Periodo 2π
Extremo en $(0,1)$

Periodo 2π
Pasa por $(0,2)$

Periodo 2π
Inflexión en $(0,1)$

Periodo 2π
Extremo en $\left(-\frac{\pi}{4}, 1\right)$

Periodo π

 **∞ asíntotas
verticales**

Periodo 2π

 **∞ asíntotas
verticales**

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BARAJA DE FUNCIONES

