

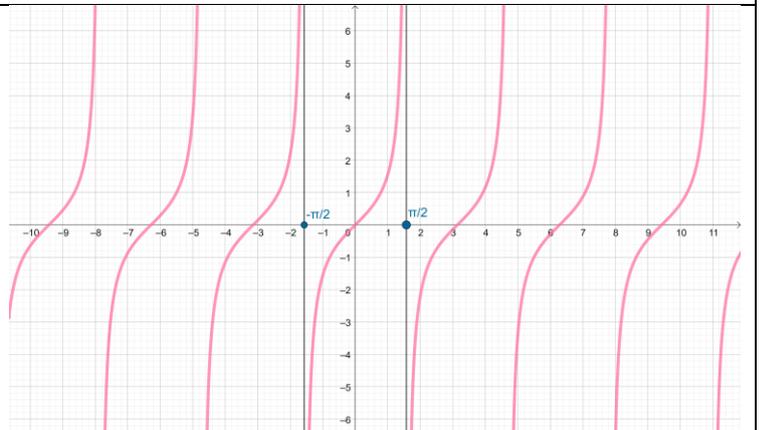
FONCTIONS USUELLES et plus

QUIZZ

<https://view.genially.com/6735b09e44907f45b8213883/interactive-content-courbes-de-fonctions>

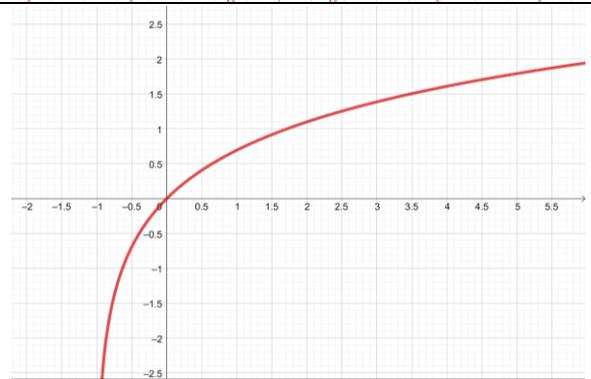
Tracer la courbe de

$$f(x) = \tan(x)$$



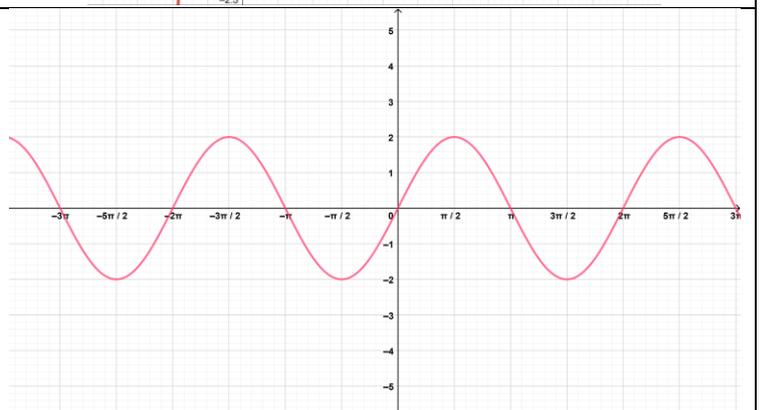
Tracer la courbe de

$$f(x) = \ln(x + 1)$$



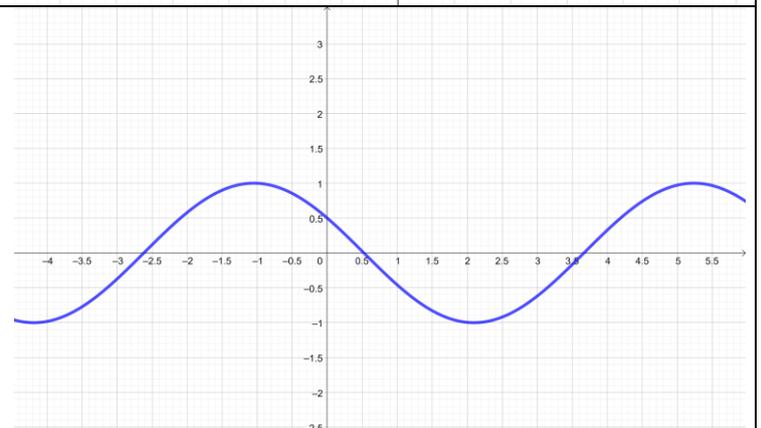
Tracer la courbe de

$$f(x) = 2\sin(x)$$



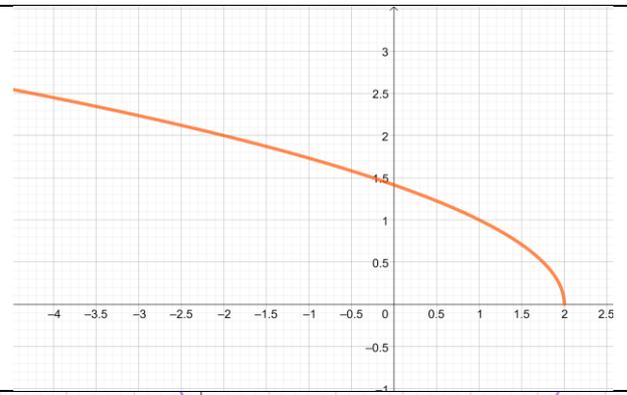
Tracer la courbe de

$$f(x) = \cos\left(x + \frac{\pi}{3}\right)$$



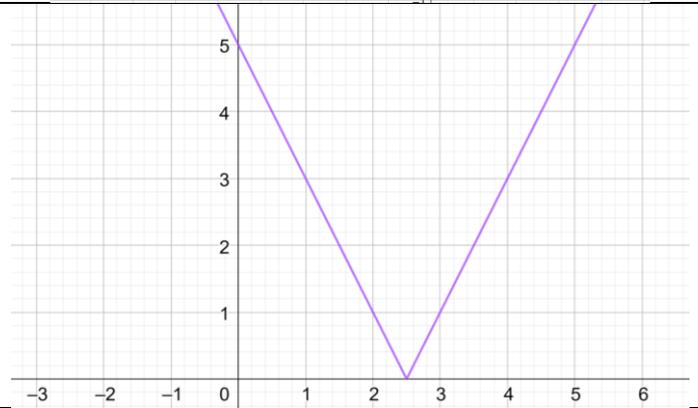
Tracer la courbe de

$$f(x) = \sqrt{2-x}$$



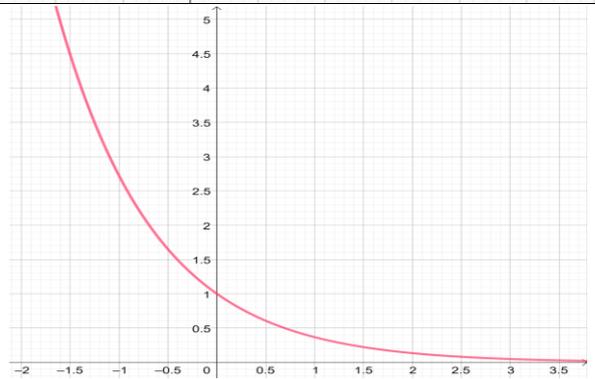
Tracer la courbe de

$$f(x) = |5 - 2x|$$



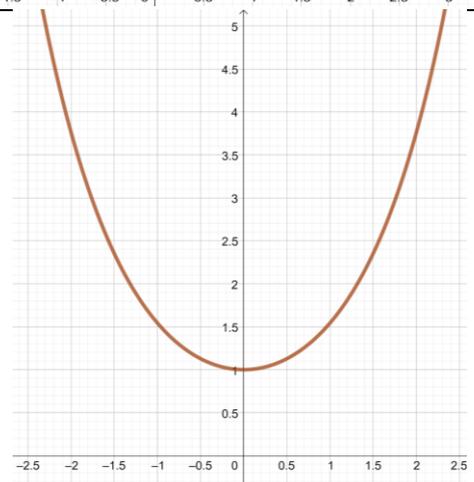
Tracer la courbe de

$$f(x) = e^{-x}$$



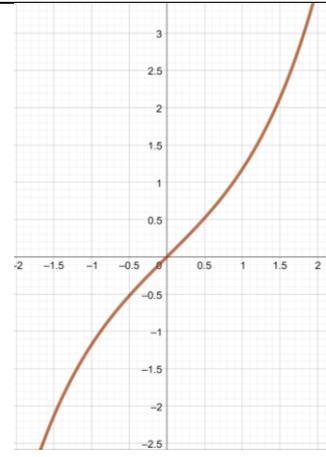
Tracer la courbe de

$$f(x) = \text{ch}(x)$$



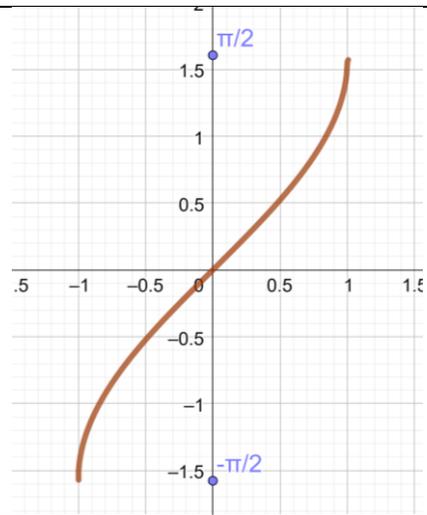
Tracer la courbe de

$$f(x) = sh(x)$$



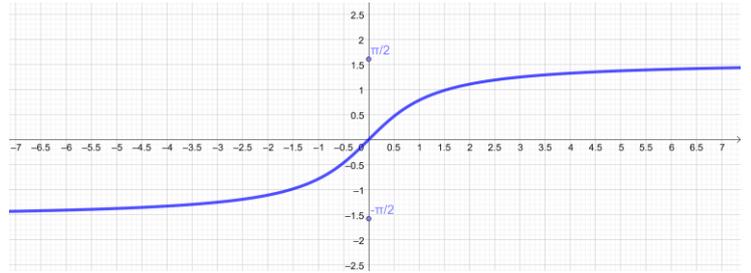
Tracer la courbe de

$$f(x) = \text{Arcsin}(x)$$



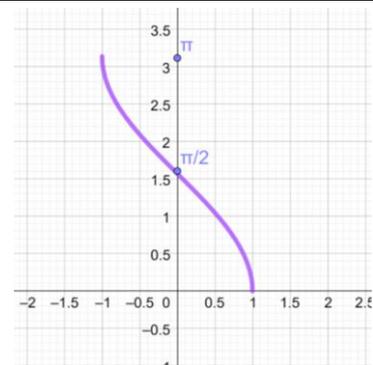
Tracer la courbe de

$$f(x) = \text{Arctan}(x)$$



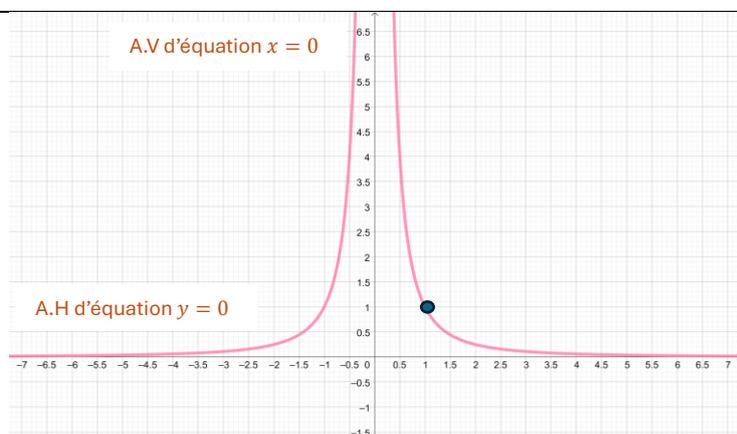
Tracer la courbe de

$$f(x) = \text{Arccos}(x)$$



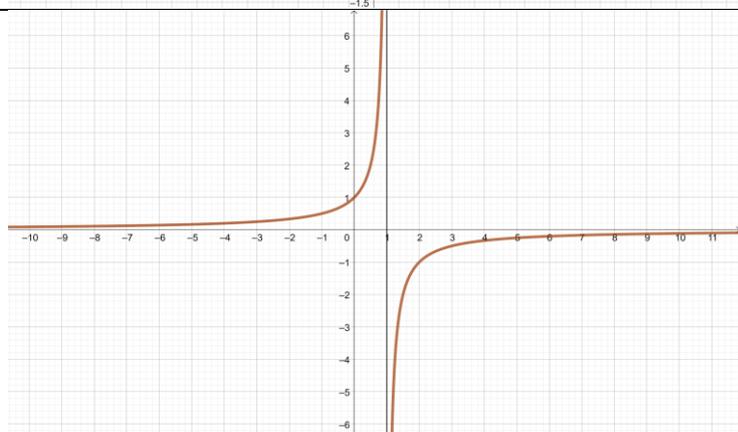
Tracer la courbe de

$$f(x) = \frac{1}{x^2}$$



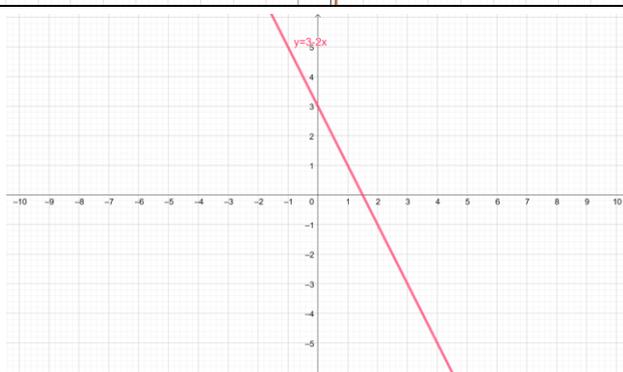
Tracer la courbe de

$$f(x) = \frac{1}{1-x}$$



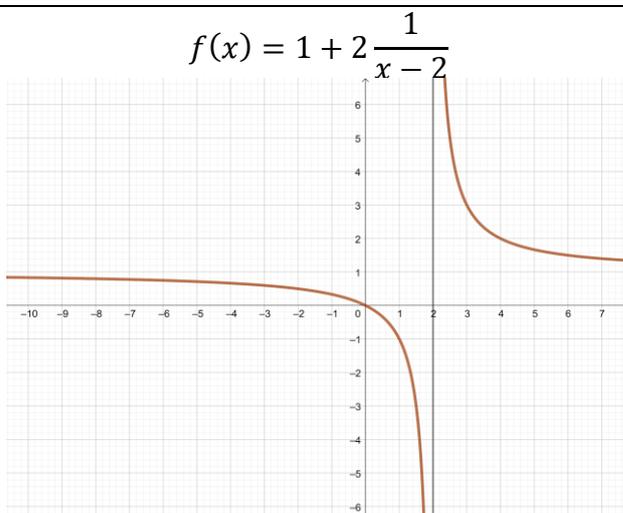
Tracer la courbe de

$$f(x) = 3 - 2x$$



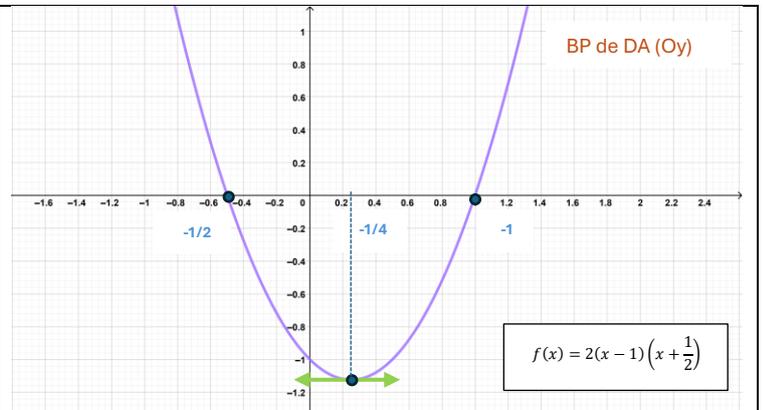
Tracer la courbe de

$$f(x) = \frac{x}{x-2}$$



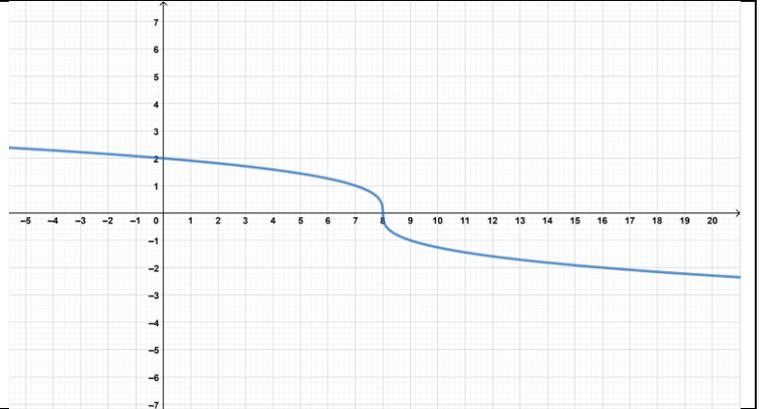
Tracer la courbe de

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



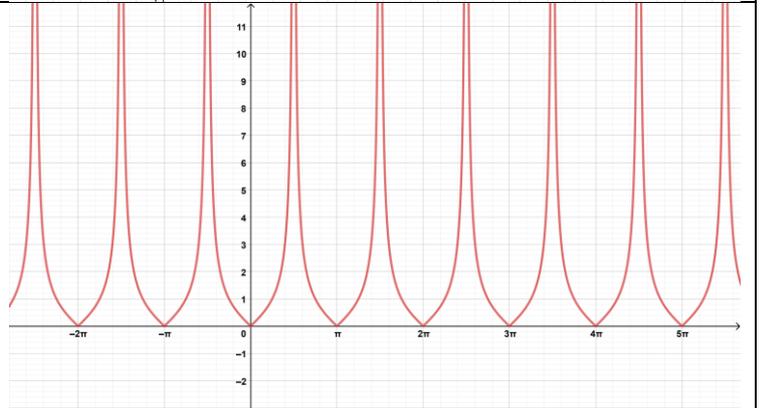
Tracer la courbe de

$$f(x) = \sqrt[3]{8-x}$$



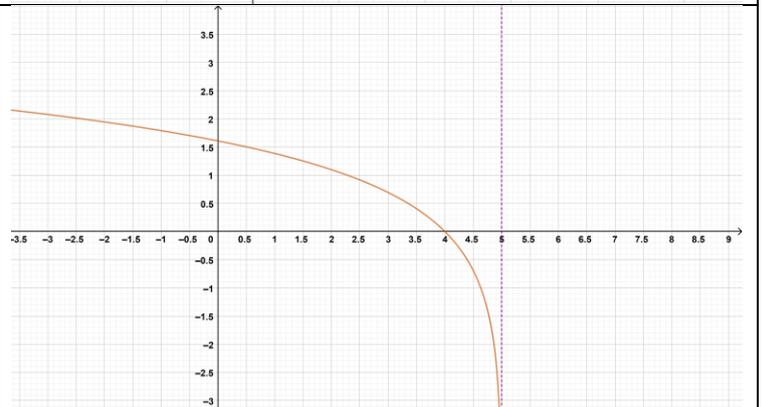
Tracer la courbe de

$$f(x) = |\tan(x)|$$



Tracer la courbe de

$$f(x) = \ln(5-x)$$



Tracer la courbe de

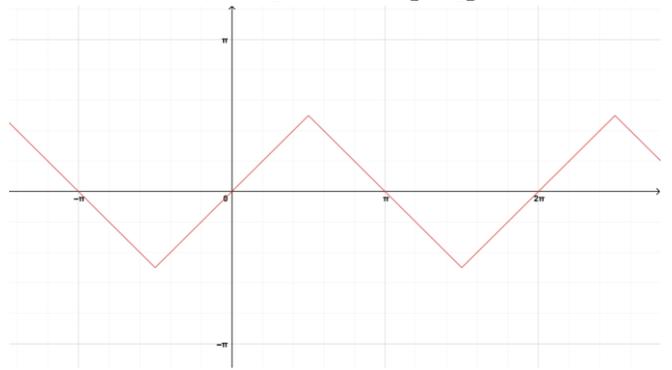
$$f(x) = \text{Arccos}(x) + \text{Arcsin}(x)$$



Tracer la courbe de

$$f(x) = \text{Arcsin}(\sin(x))$$

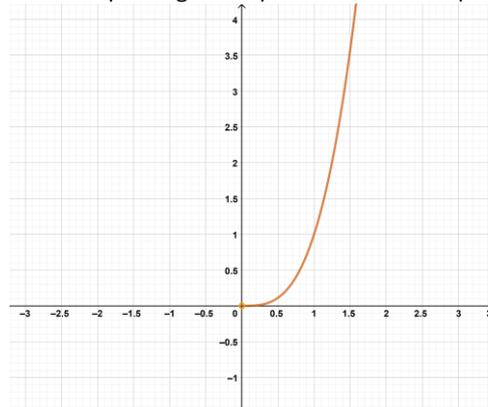
f est impaire, 2π -périodique, et $\forall x, f(\pi - x) = f(x)$ donc Cf est symétrique par rapport à la droite d'équation $y = \frac{\pi}{2}$ et $\forall x, \in \left[0, \frac{\pi}{2}\right], f(x) = x$.



Tracer la courbe de

$$f(x) = x^\pi$$

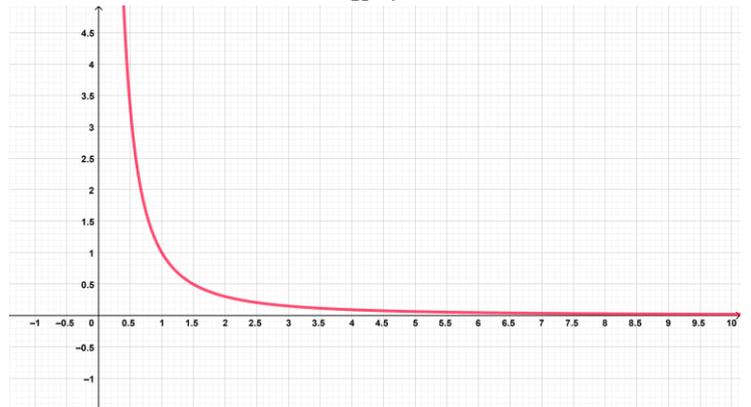
$f(x) = x^\alpha$ avec $1 < \alpha$. Même allure que la courbe de $y = x^2$ sur \mathbb{R}^{+*} avec un prolongement par continuité en 0 par 0.



Tracer la courbe de

$$f(x) = x^{-\sqrt{3}}$$

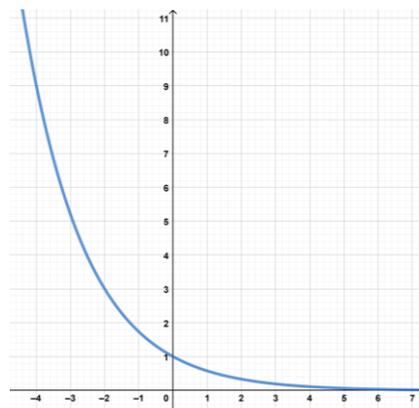
$f(x) = x^\alpha$ avec $\alpha < 0$. Même allure que la courbe d'équation $y = \frac{1}{x}$ sur \mathbb{R}^{+*} .



Tracer la courbe de

$$f(x) = \sqrt{3}^{-x}$$

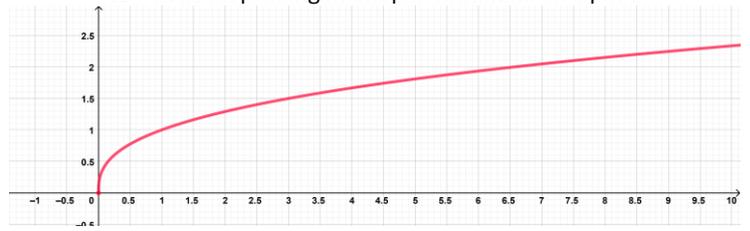
$f(x) = \left(\frac{1}{\sqrt{3}}\right)^x = \exp_{\frac{1}{\sqrt{3}}}(x)$. Même allure que la courbe d'équation $y = e^{-x}$



Tracer la courbe de

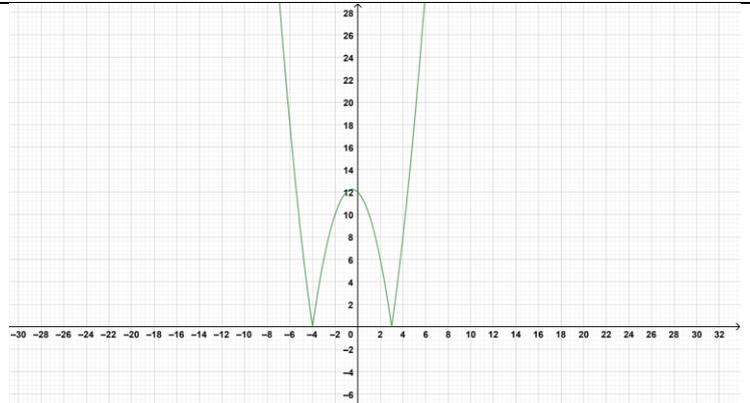
$$f(x) = x^{\frac{1}{e}}$$

$f(x) = x^\alpha$ avec $0 < \alpha < 1$. Même allure que la courbe de $y = \sqrt{x}$ sur \mathbb{R}^{+*} avec un prolongement par continuité en 0 par 0



Tracer la courbe de

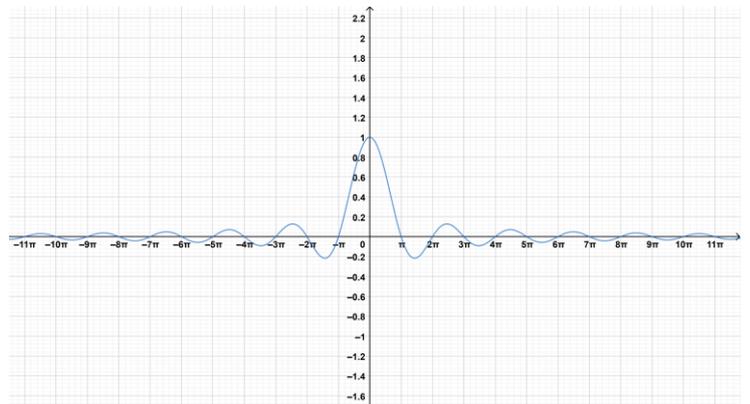
$$f(x) = |x^2 + x - 12|$$



Tracer l'allure de la courbe de

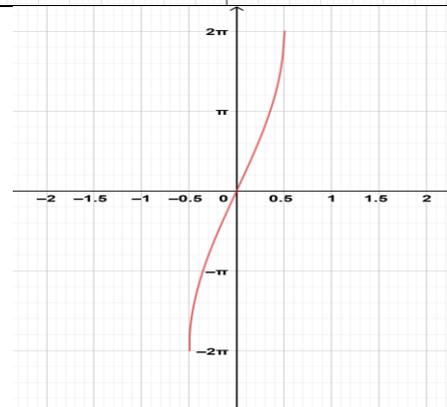
$$f(x) = \frac{\sin(x)}{x}$$

Necessite une étude de fonction...



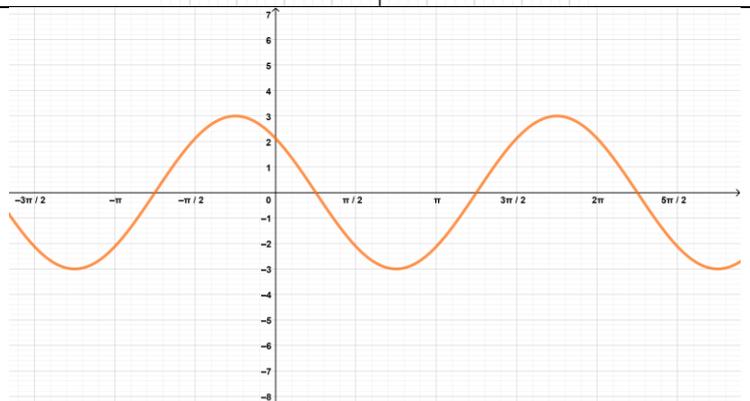
Tracer l'allure de la courbe de

$$f(x) = 4\text{Arcsin}(2x)$$



Tracer la courbe de

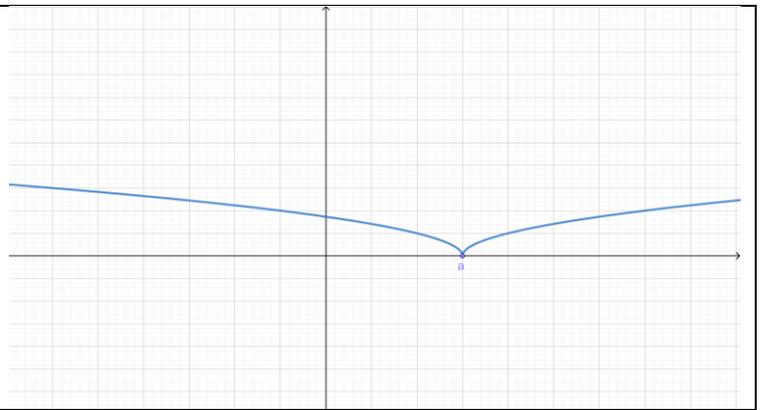
$$f(x) = 3 \sin\left(\frac{\pi}{4} - x\right)$$



Tracer l'allure de la courbe de

$$f(x) = \sqrt{|x - a|}$$

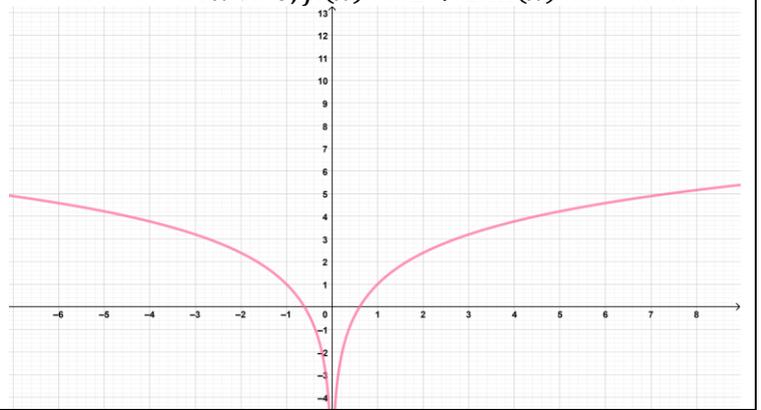
où a est un réel.



Tracer l'allure de la courbe de

$$f(x) = \ln(ex^2)$$

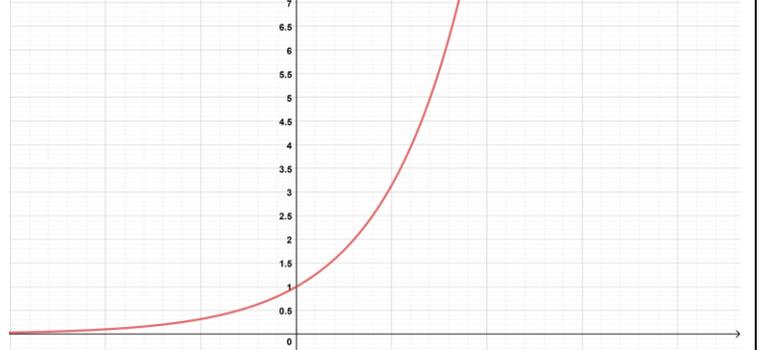
$$\forall x > 0, f(x) = 1 + 2 \ln(x)$$



Tracer l'allure de la courbe de

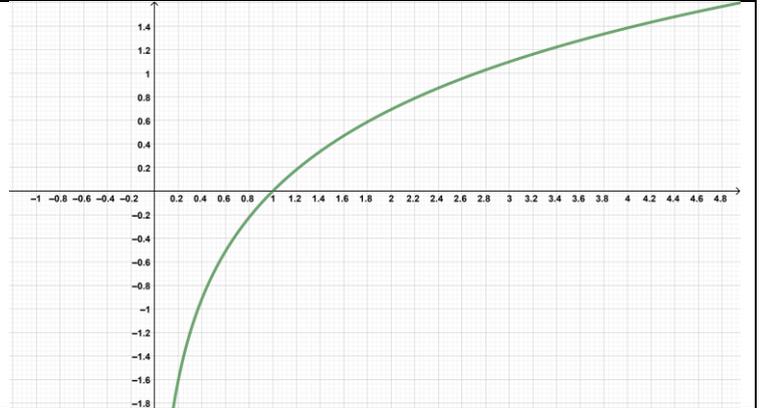
$$f(x) = \pi^x$$

$f(x) = (\pi)^x = \exp_{\pi}(x)$. Meme allure que la courbe d'équation $y = e^x$



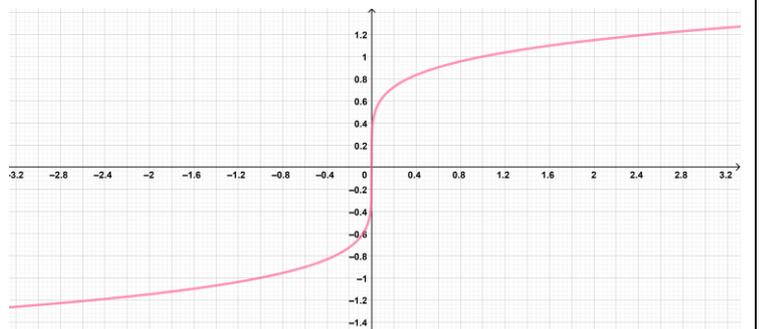
Tracer la courbe de

$$f(x) = \ln(x)$$



Tracer la courbe de

$$f(x) = \sqrt[5]{x}$$



Tracer la courbe de

$$f(x) = \sqrt[5]{x}$$

Tracer la courbe de

$$f(x) = x^6$$

Tracer la courbe de

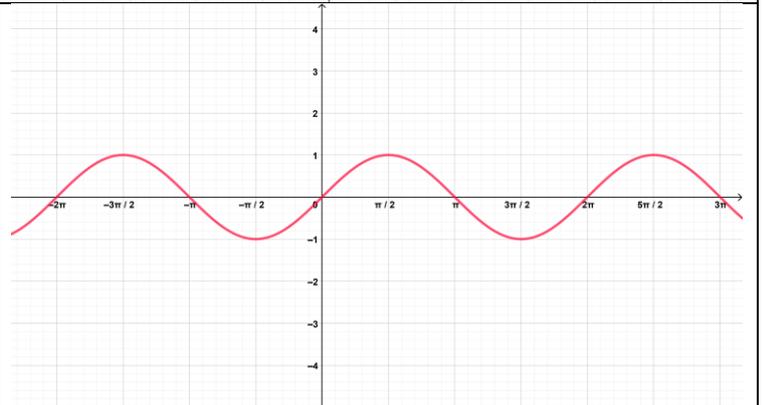
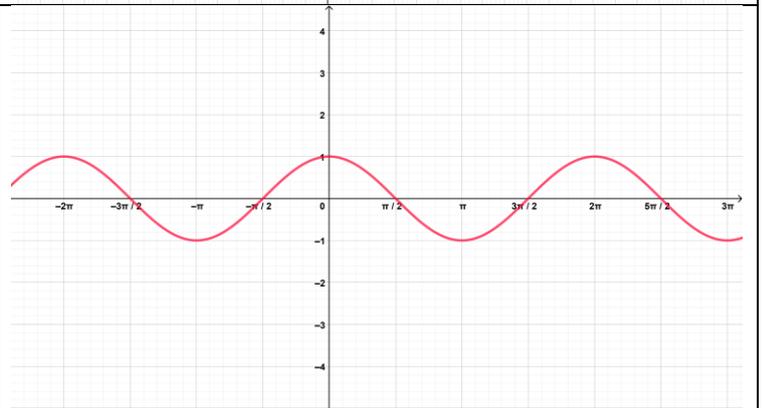
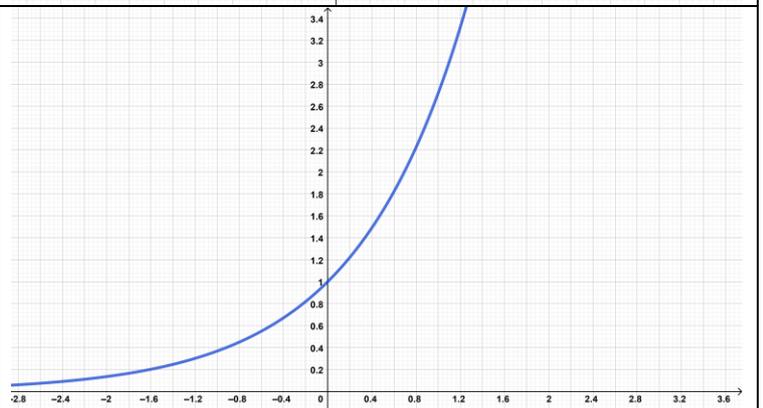
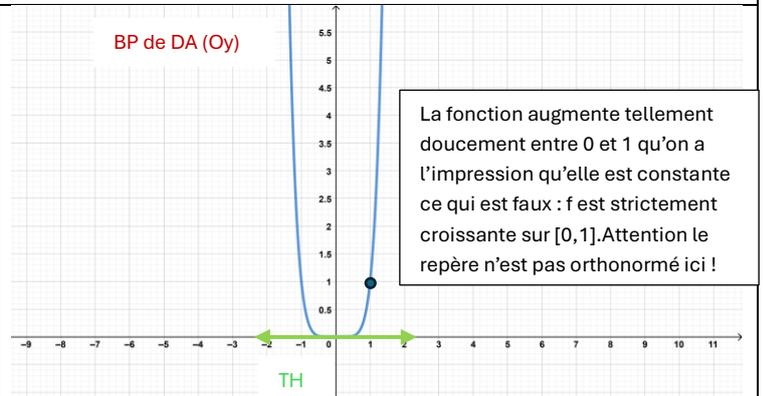
$$f(x) = e^x$$

Tracer la courbe de

$$f(x) = \cos(x)$$

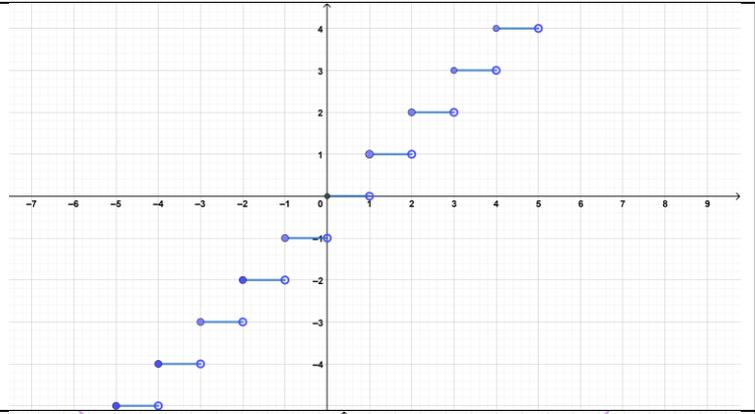
Tracer la courbe de

$$f(x) = \sin(x)$$



Tracer la courbe de

$$f(x) = [x]$$



Tracer la courbe de

$$f(x) = |x|$$

