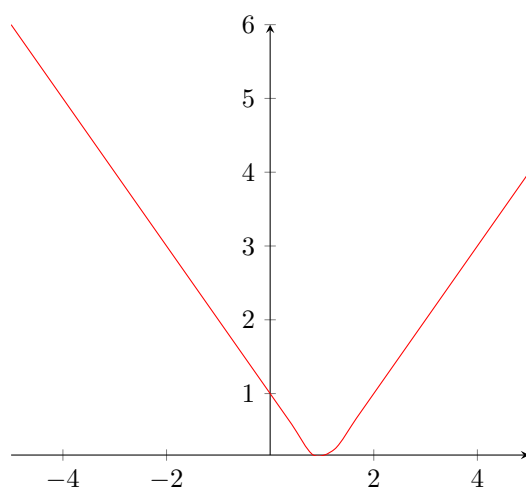


Lista de Exercícios 1 - Cálculo a uma Variável

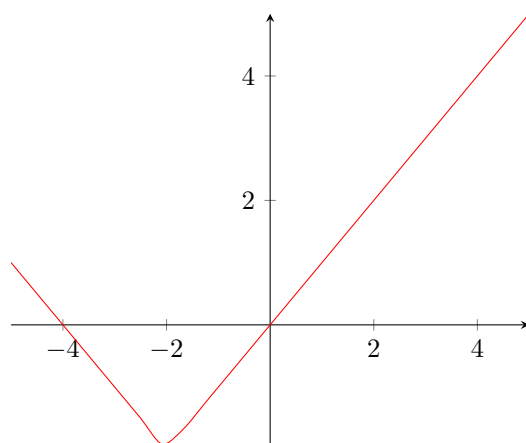
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July 26, 2023

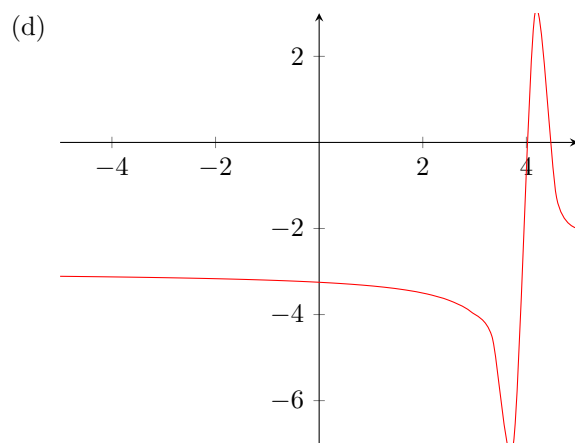
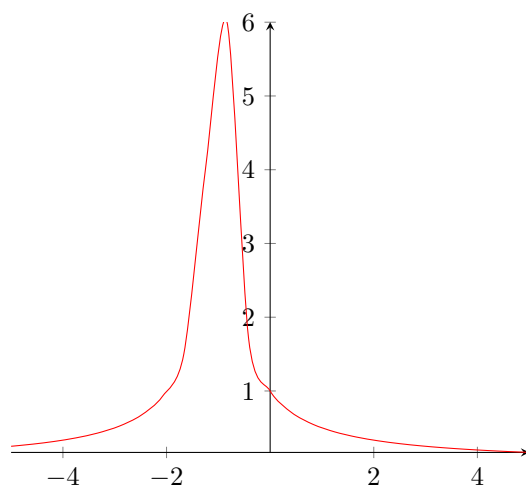
1. (a)



(b)



(c)



2.

3. (a)

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

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

(b)

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

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

(c)

$$\begin{aligned}f(+x) &= (x-1)^3 = x^3 - 3x^2 + 3x - 1 \\f(-x) &= (-x-1)^3 = (-x)^3 - 3(-x)^2 + 3(-x) - 1 \\&= -x^3 - 3x^2 - 3x - 1 = -(x^3 + 3x^2 + 3x + 1) \neq f(x)\end{aligned}$$