

GUIA 5 DERIVADA

1) Halla la derivada de las siguientes funciones teniendo en cuenta la explicación dada en clase y según la guía de aprendizaje.

a) $f(x) = 4x - 2$

$$f'(x) = 4$$

b) $f(x) = 32x$

$$f'(x) = 32$$

c) $f(x) = 506432$

$$f'(x) = 0$$

d) $f(x) = \frac{1}{2}x + \frac{4}{3}$

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

e) $f(x) = 56x^2 + 3x - 102$

$$f'(x) = 112x + 3$$

f) $f(x) = 10x^5 - 32x^4 - 21x^3 + 22x^2 - 7x + 7$

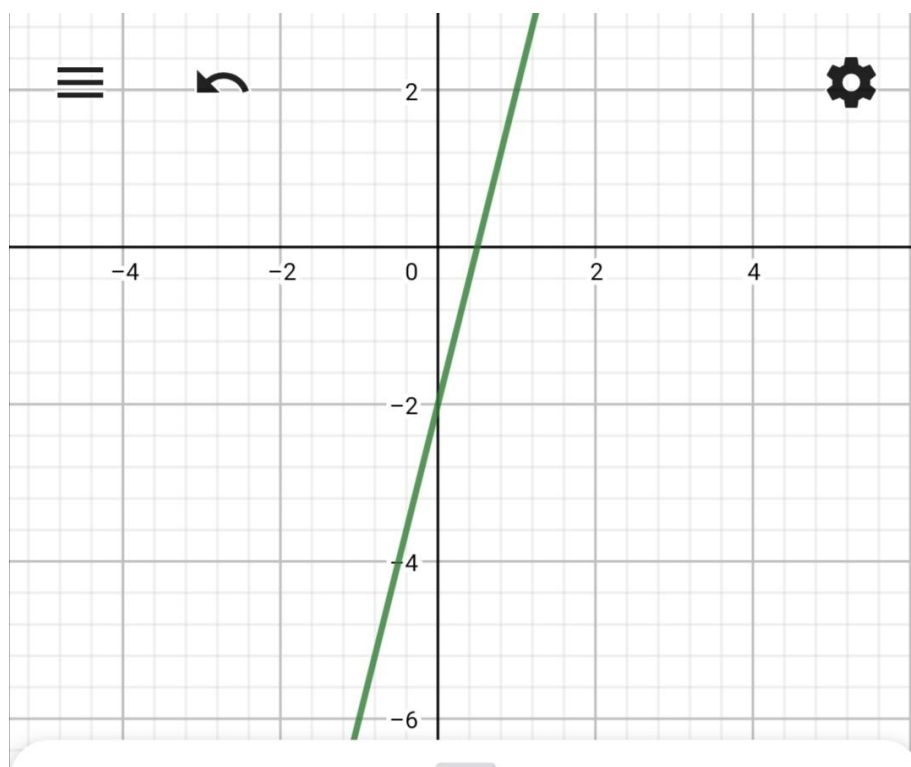
$$f'(x) = 50x^4 - 128x^3 - 63x^2 + 44x - 7$$

$$g) f(x) = -82x^6 - 73x^4 - 11x^3 + 22x^2 - x$$

$$f'(x) = -492x^5 - 292x^3 - 33x^2 + 44x - 1$$

$$h) f(x) = -x^4 + x^3 + 200x^2 - 13$$

$$f'(x) = -4x^3 + 3x^2 + 400x$$



$$f(x) = 4x - 2$$

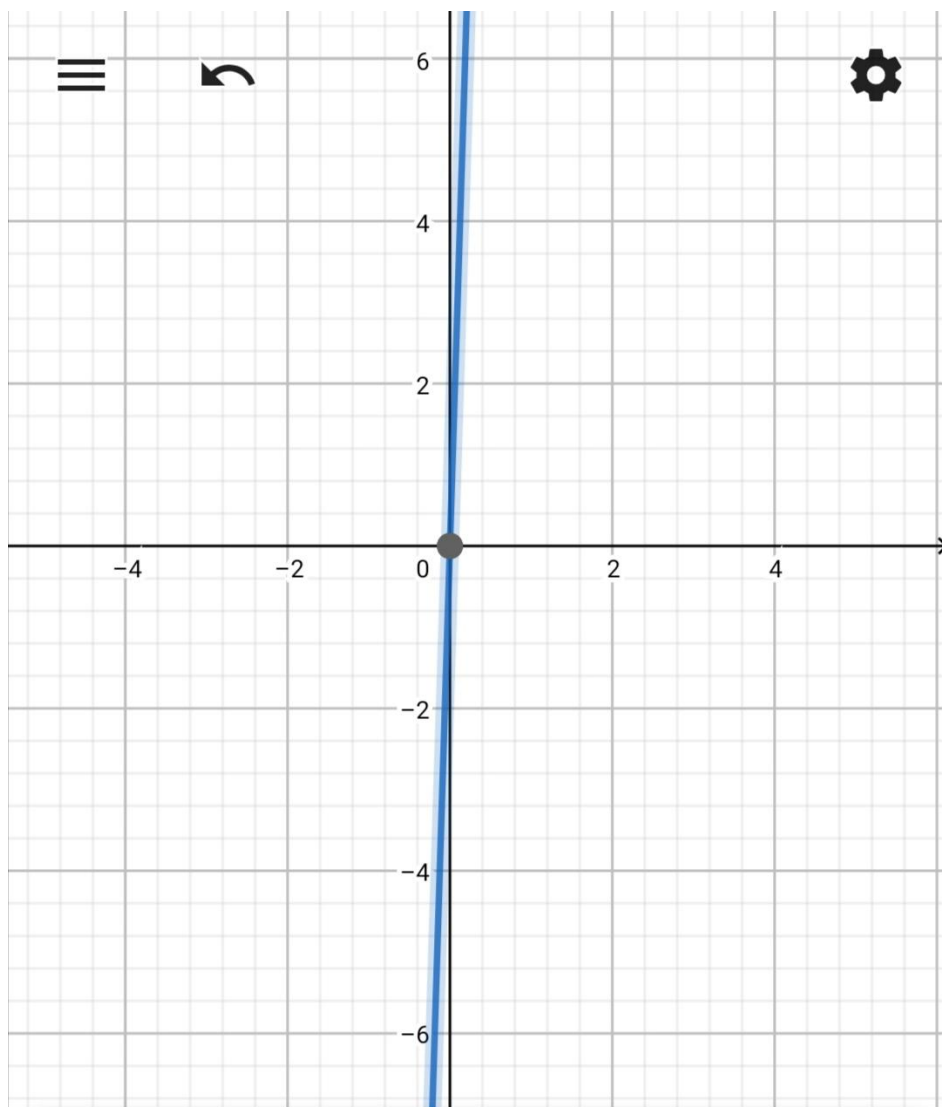


Entrada...



Calculadora Gráfica GeoGebra





$$f(x) = 32x$$



Entrada...



Calculadora Gráfica GeoGebra



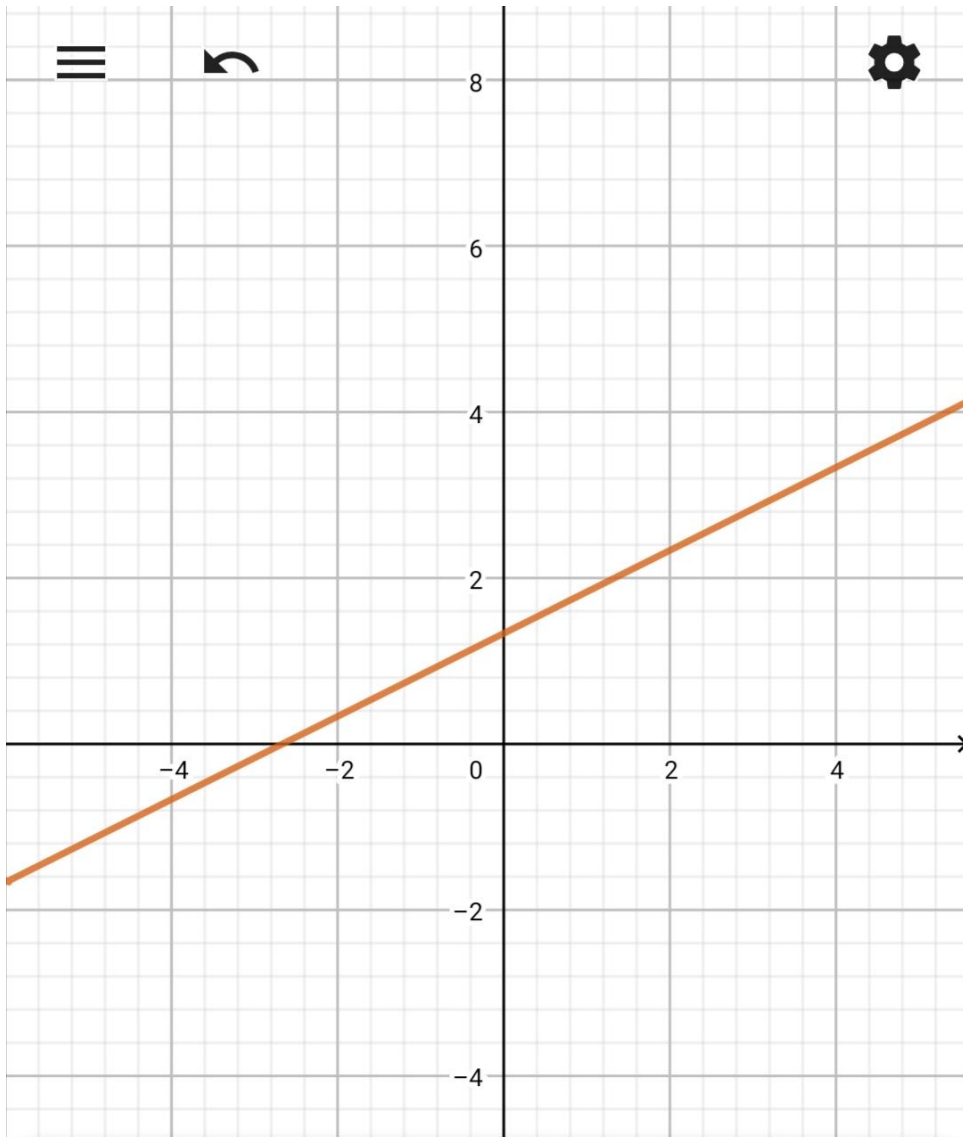
Álgebra



Herramientas



Tabla



 $f(x) = \frac{1}{2}x + \frac{4}{3}$ 

 Entrada...

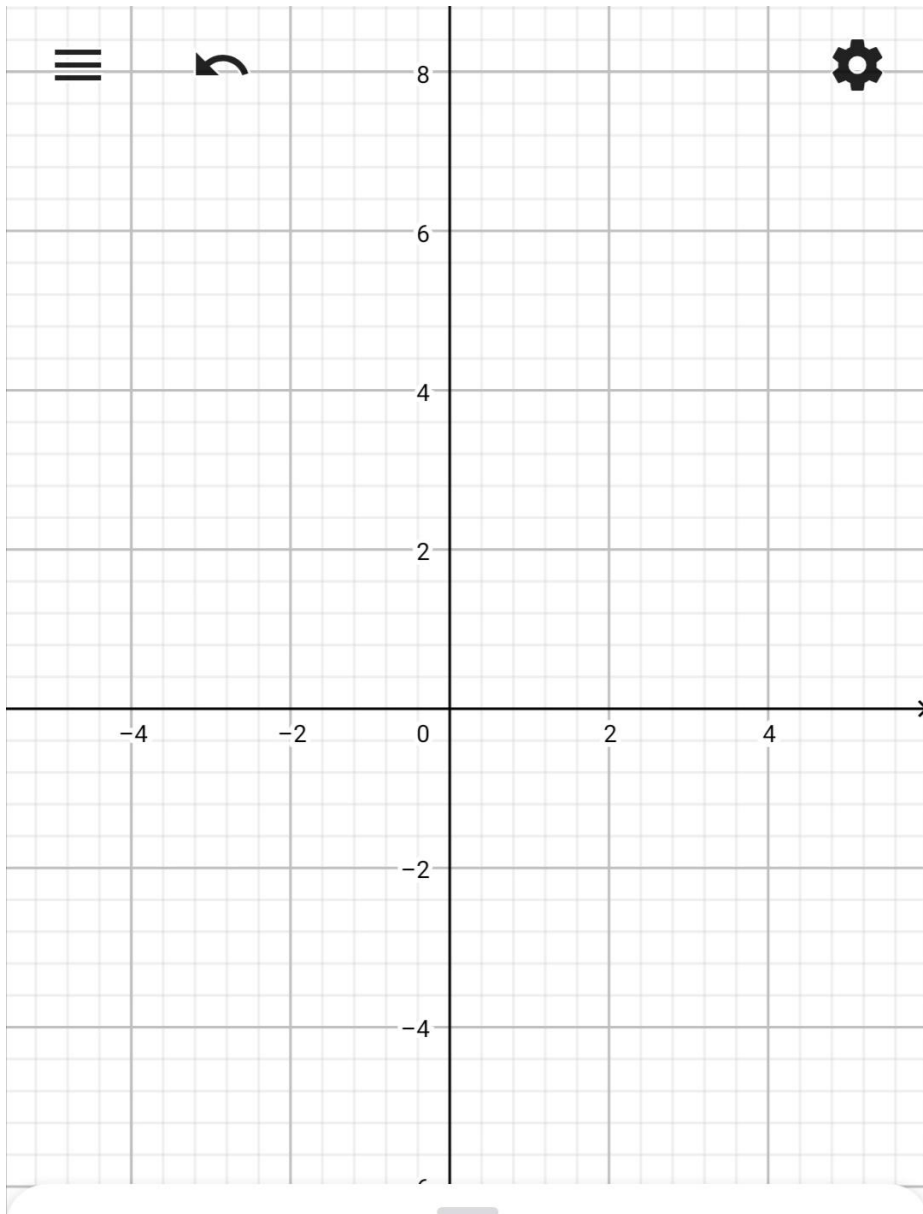


Calculadora Gráfica GeoGebra


Álgebra


Herramientas

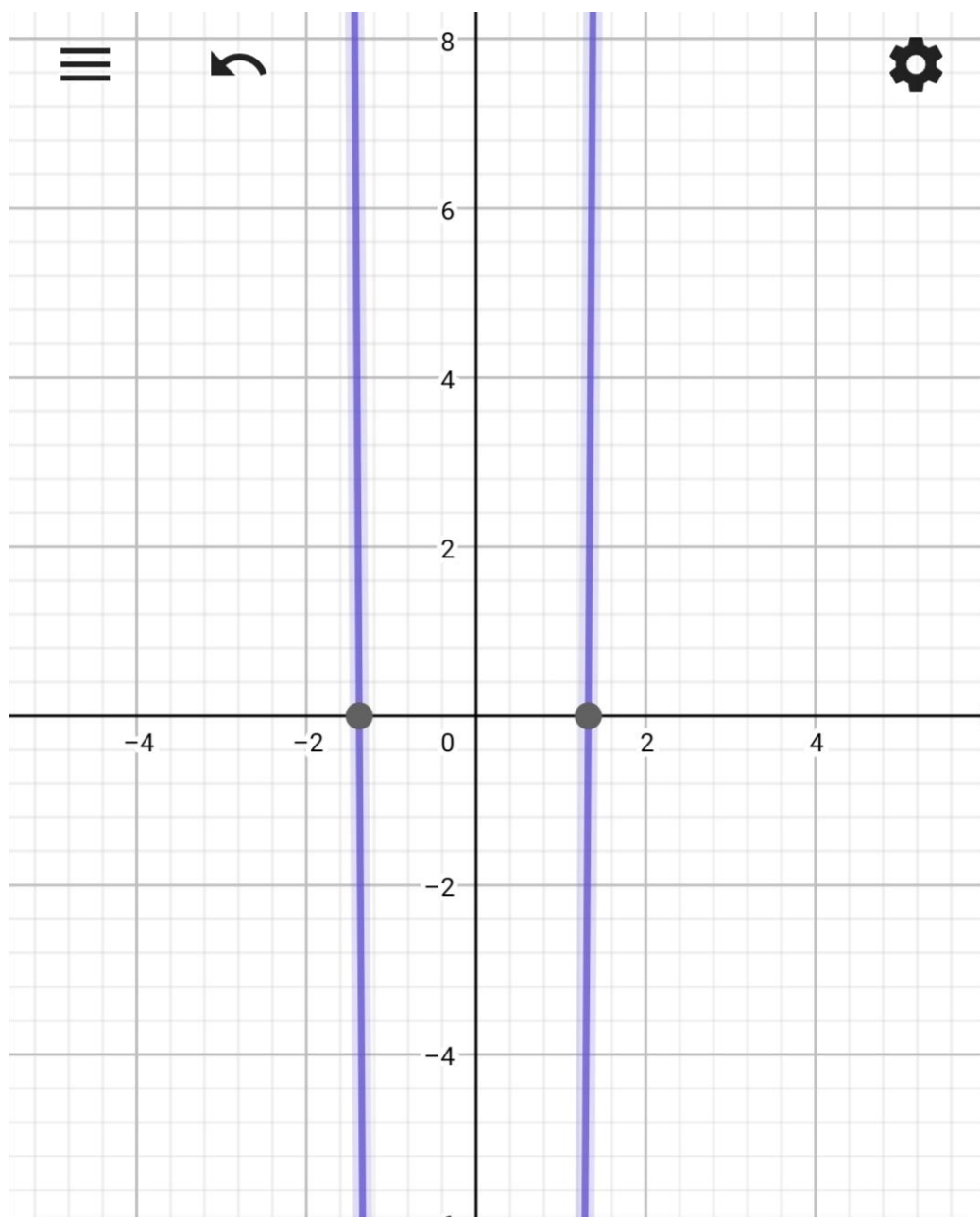

Tabla



$a = 506432$

☐ -5 1×10^6

Álgebra Herramientas Tabla



$$f(x) = 56x^2 + 3x - 102$$



Entrada...



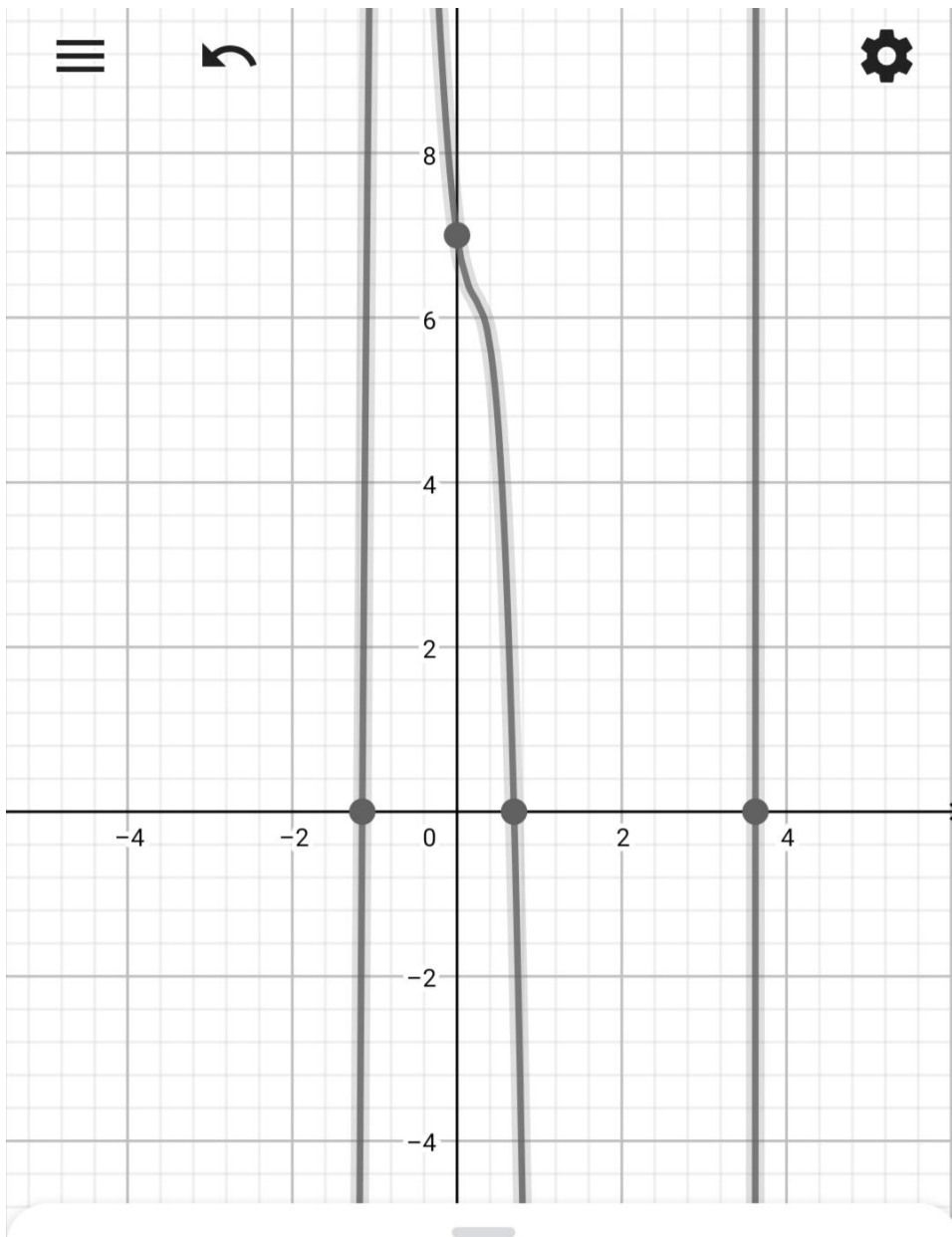
Álgebra



Herramientas



Tabla



$f(x) = 10x^5 - 32x^4 - 21x^3 + 22x^2 -$

+ Entrada...



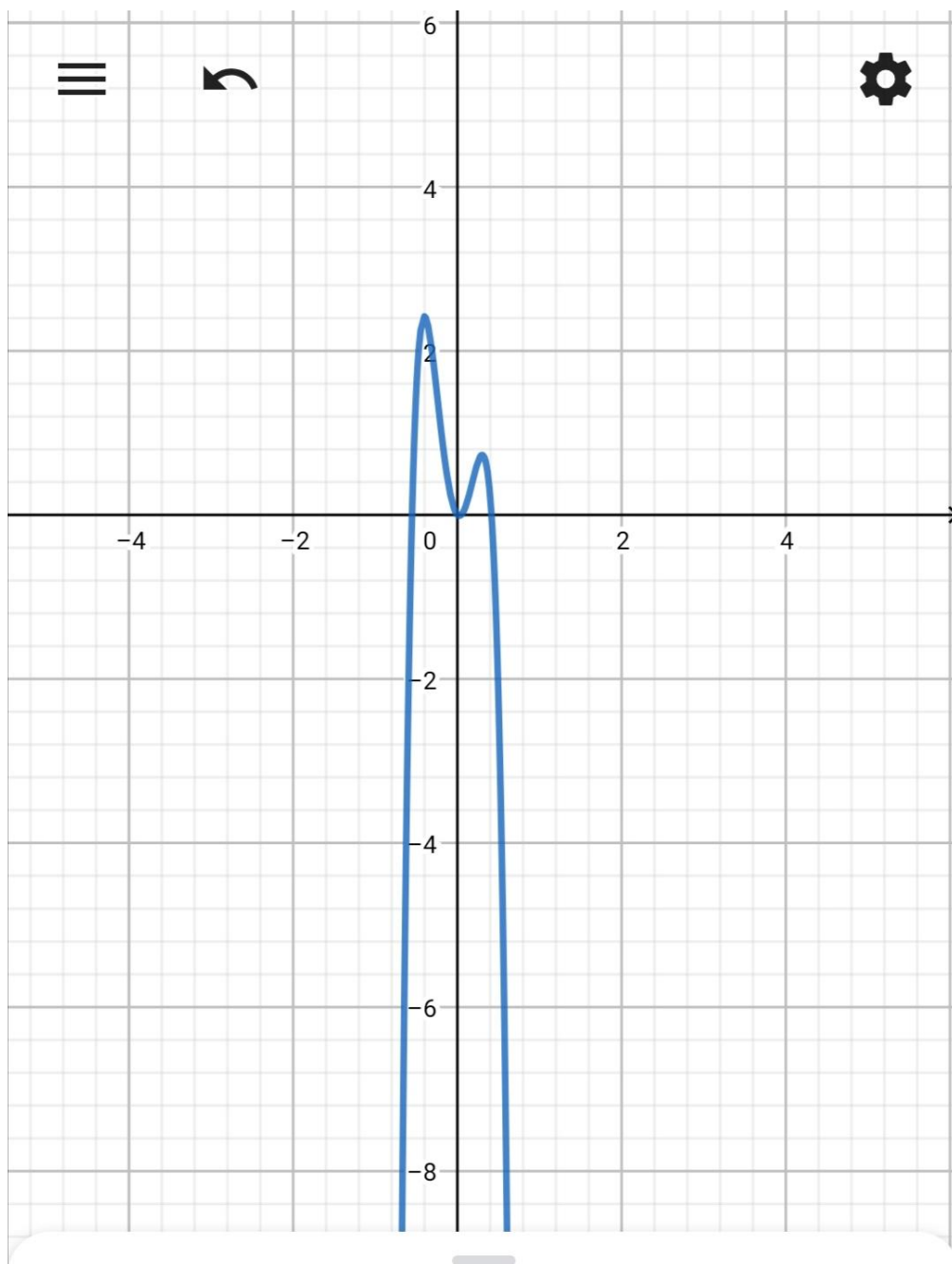
Álgebra



Herramientas



Tabla

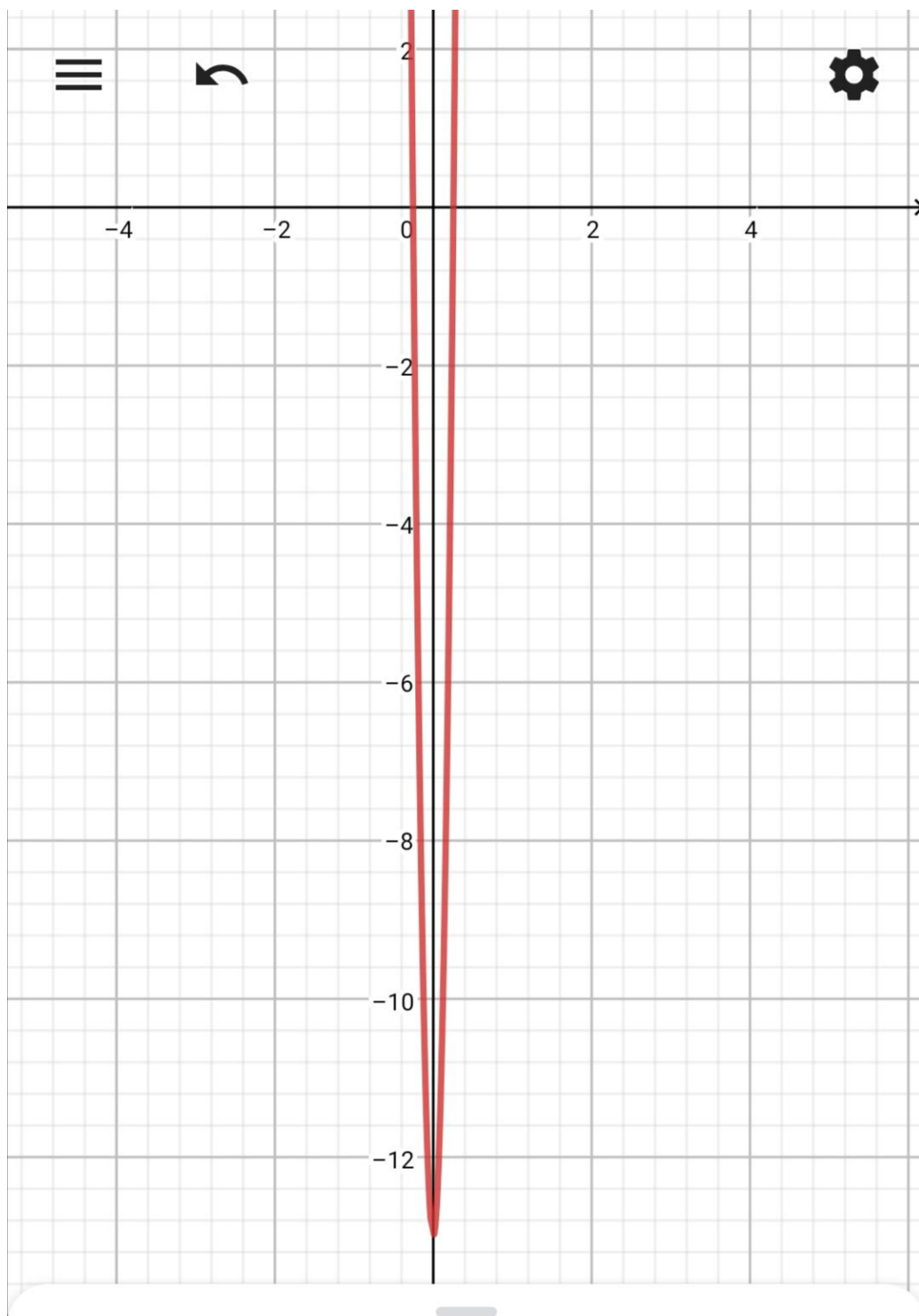


$$f(x) = -82x^6 - 73x^4 - 11x^3 + 22x^2$$



Entrada...





$$f(x) = -x^4 + x^3 + 200x^2 - 13$$



Entrada

Álgebra



Herramientas



Tabla