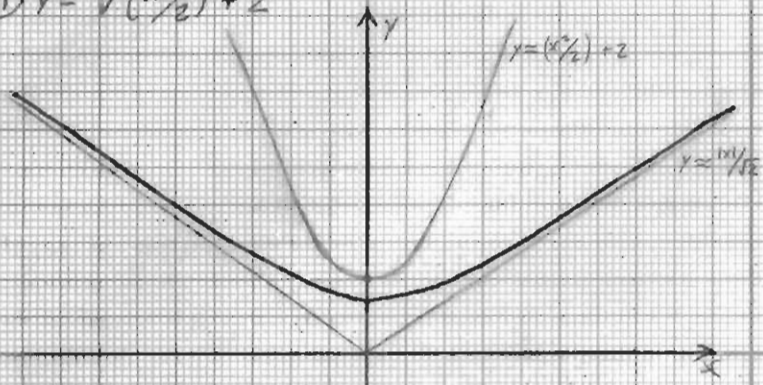
Campos García Gabriel No. cta. 30156094-0

① $y = \sqrt{(x^2/2) + 2}$

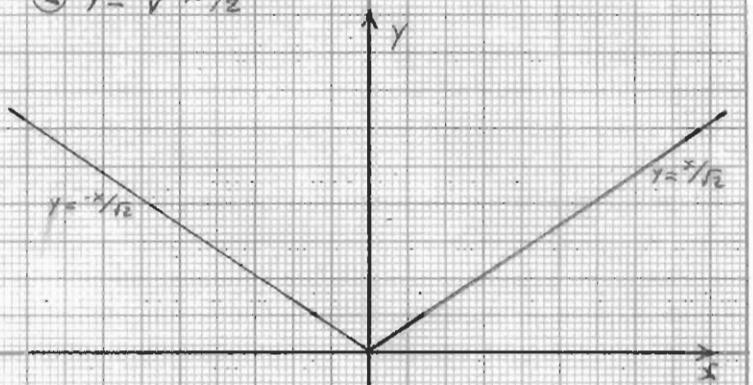


$y \approx \sqrt{x^2/2}$ cuando
$|x| >> 1$
$y \approx |x|/\sqrt{2}$

$y = \sqrt{x^2(1/2 + 2/x^2)}$
$y = |x| \sqrt{(1/2 + 2/x^2}$
$y/|x| = \sqrt{(1/2) + (2/x^2}$

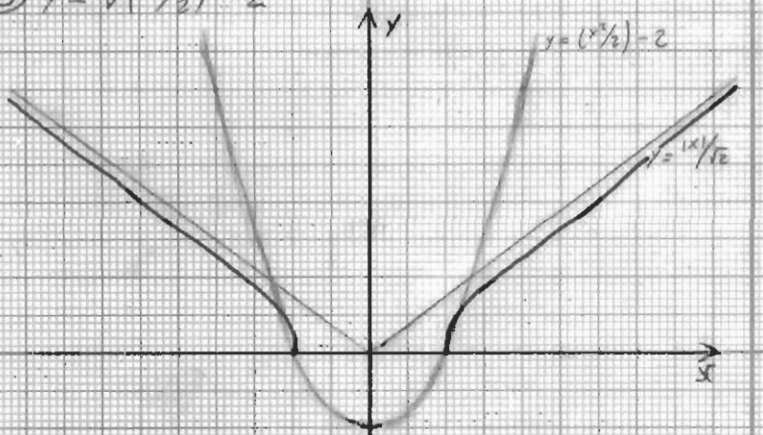
cuando $x \to \pm\infty$
$y/|x| = 1/\sqrt{2}$

③ $y = \sqrt{x^2/2}$

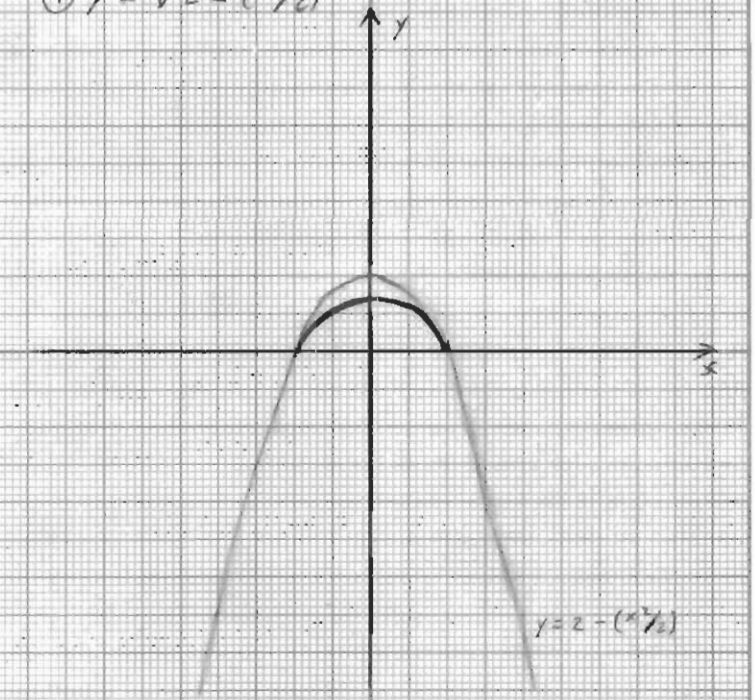


$y = |x|/\sqrt{2}$

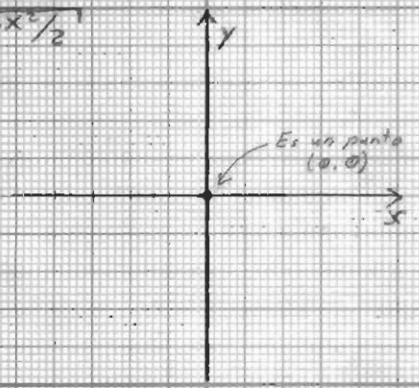
③ $y = \sqrt{(x^2/2) - 2}$



④ $y = \sqrt{2 - (x^2/2)}$



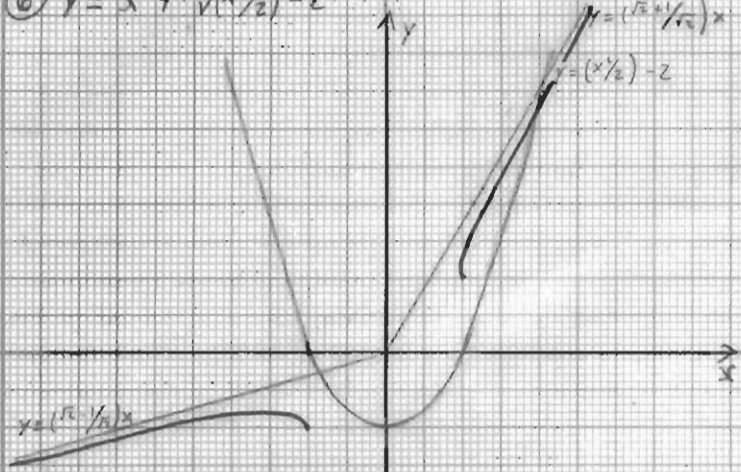
⑤ $y = \sqrt{-x^2/2}$



$y = \sqrt{-x^2/2}$ no tiene valores reales mas que para $x = 0$; donde $y = 0$

∴ la gráfica es un punto.

⑥ $y = x + \sqrt{(x^2/2)} - 2$



$y \approx x + (1/\sqrt{2})|x|$

para $x < 0$

$y \approx x - (1/\sqrt{2})x$

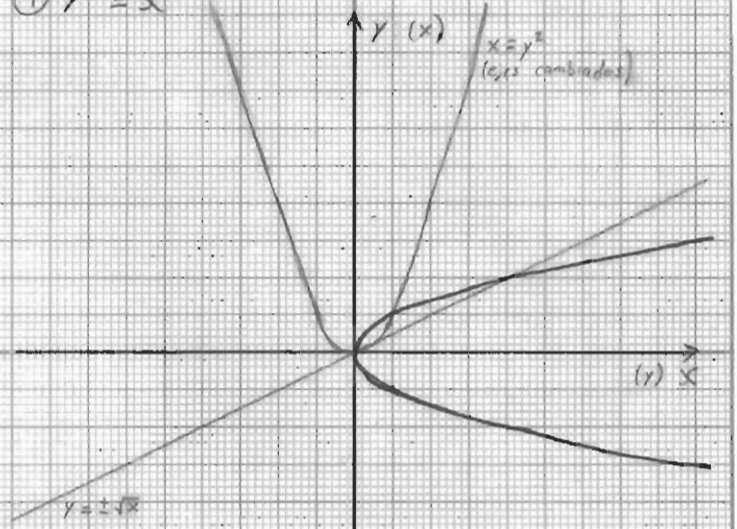
$y \approx (\sqrt{2}-1/\sqrt{2})x$

para $x > 0$

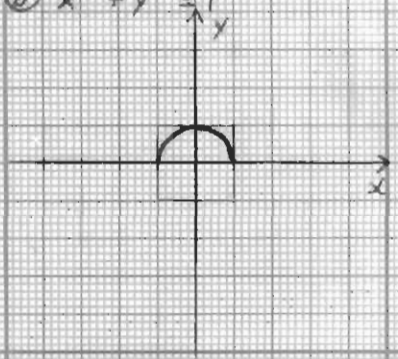
$y \approx x + (1/\sqrt{2})x$

$y \approx (\sqrt{2}-1/\sqrt{2})x$

⑦ $y^2 = x$



⑧ $x^2 + y^2 = 1$

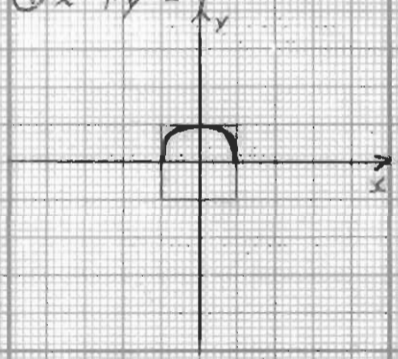


$y = \sqrt{1 - x^2}$

valores de $x = [-1, 1]$

con raíces reales

⑨ $x^4 + y^2 = 1$

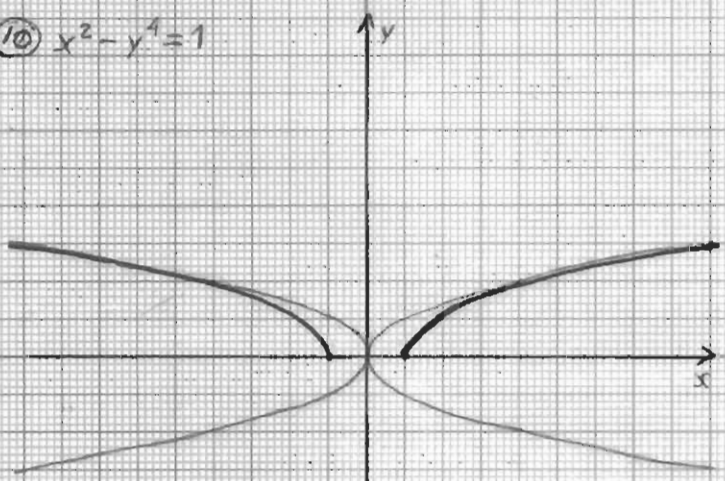


$y = \sqrt{1 - x^4}$

Valores de $x = [-1, 1]$

con raíces reales.

⑩ $x^2 - y^4 = 1$



$y = \sqrt[4]{x^2 - 1}$

para $x = (-1, 1)$

no existen raíces reales

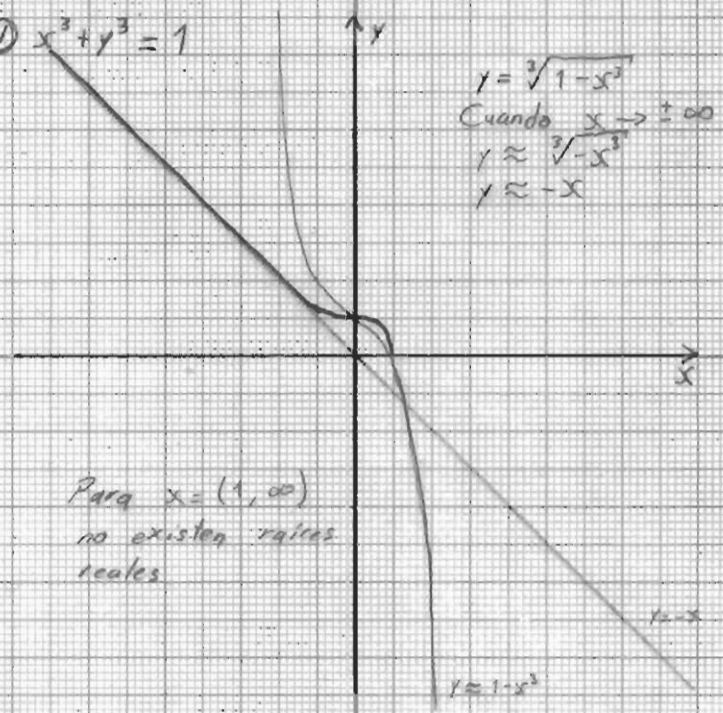
Cuando $x \to \pm\infty$

$y^4 \approx x^2$

$y^2 \approx x$ ∴

$-y^2 \approx -x$

⑪ $x^3 + y^3 = 1$



$y = \sqrt[3]{1 - x^3}$

Cuando $x \to \pm\infty$

$y \approx \sqrt[3]{-x^3}$

$y \approx -x$

Para $x = (1, \infty)$

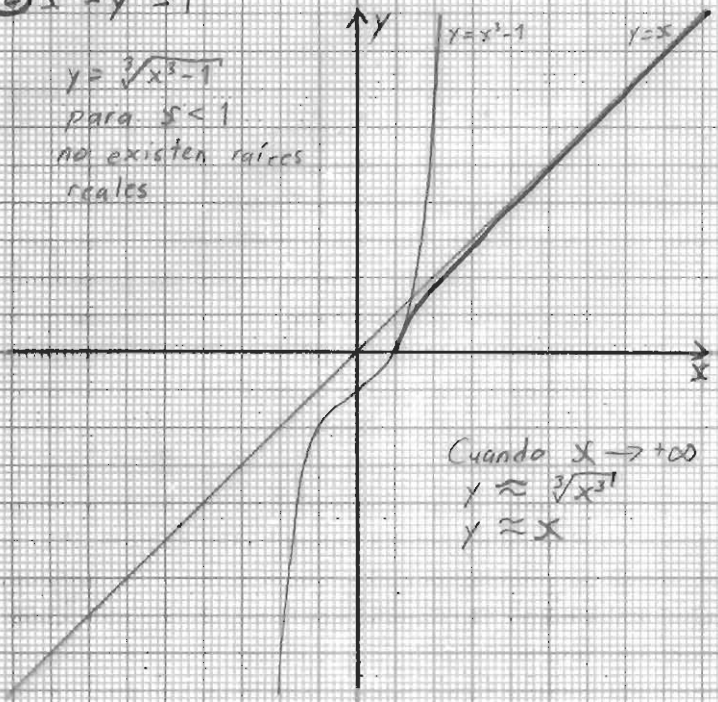
no existen raíces reales

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

$y = \sqrt[3]{x^3 - 1}$

para $x < 1$

no existen raíces reales



Cuando $x \to +\infty$

$y \approx \sqrt[3]{x^3}$

$y \approx x$