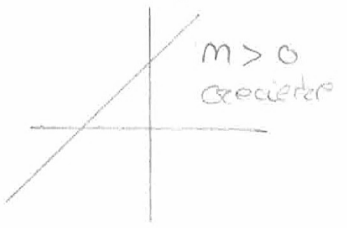
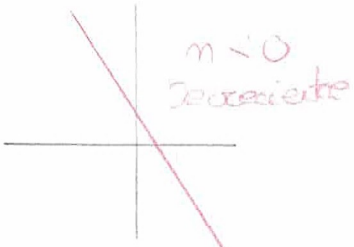
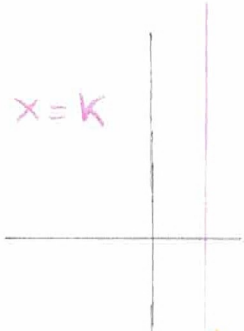
FUNCIONES ELEMENTALES Y TRASCACIONES

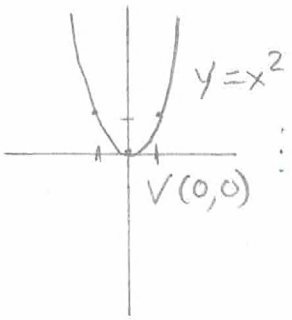
LINEAL: $y = mx + n$.

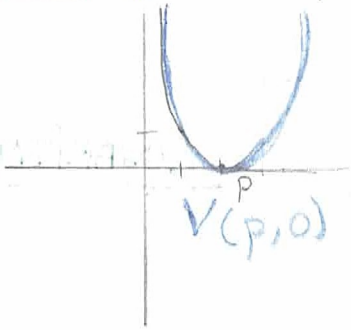






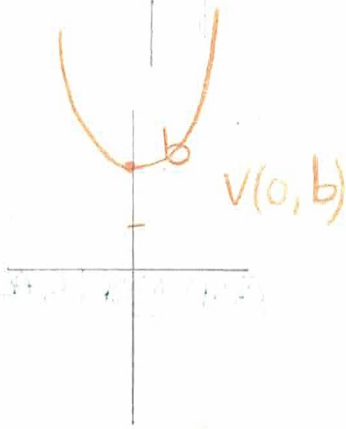
PARÁBOLAS Ó CUADRÁTICAS: $y = (x+p)^2 + b$.





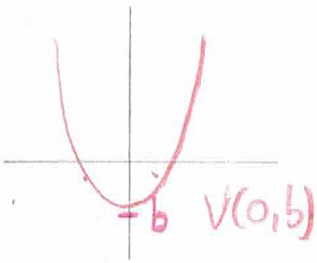
$y = (x+p)^2$
$p < 0$ derecha

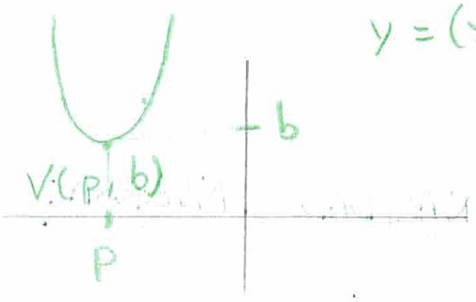
$y = (x+p)^2$
$p > 0$ izquierda



$y = x^2 + b$
$b > 0$ arriba

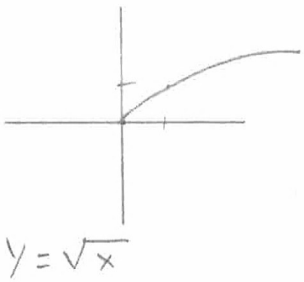
$y = x^2 + b$ $b < 0$ abajo

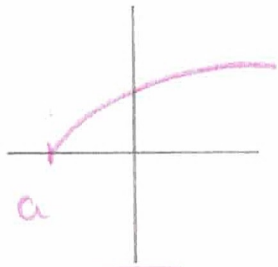


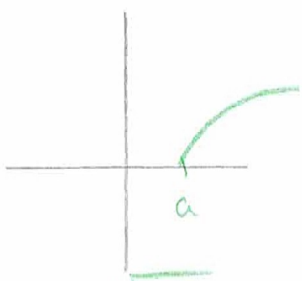


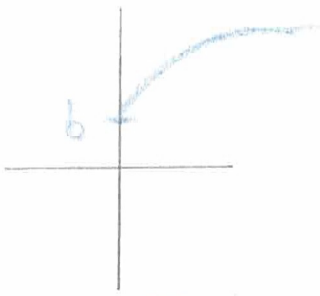
$y = (x+p)^2 + b$

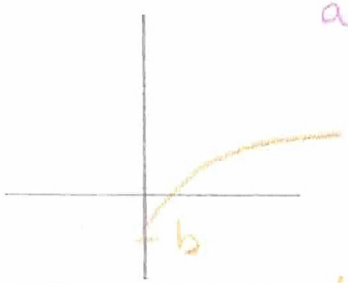
RADICALES: $y = \sqrt{x+a} + b$

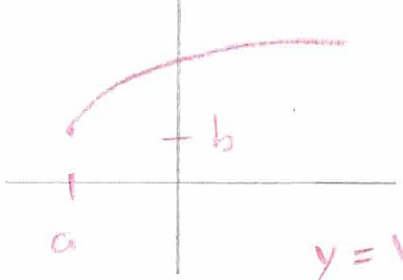




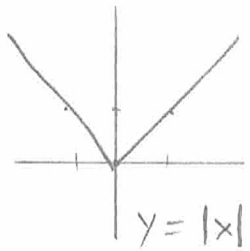




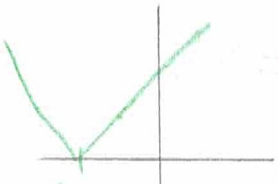




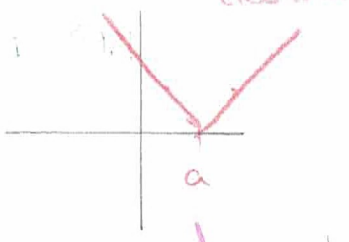
VALOR ABSOLUTO: $y = |x+a|+b$



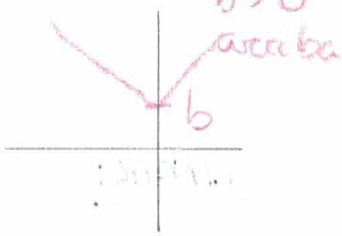
$y = |x|$



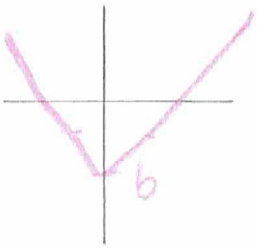
$y = |x+a|$ $a>0$ izquierda

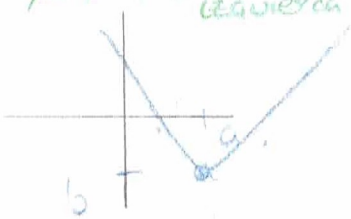


$y = |x+a|$ $a<0$ derecha

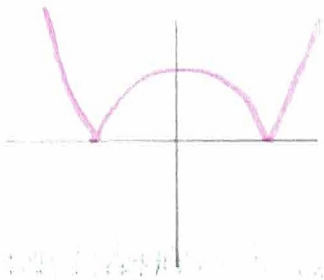


$y = |x|+b$ $b>0$ arriba





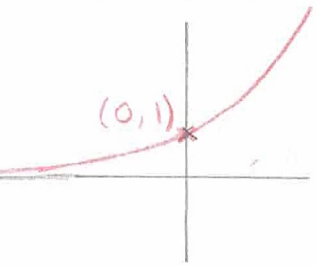
$y = |x+a|+b$



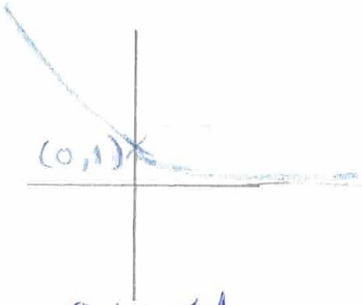
$y = |x^2+ax+b|$

$y = |x|+b$ $b<0$ abajo

EXPONENCIALES: $y = a^x$



$a > 1$

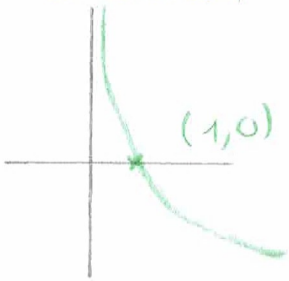


$0 < a < 1$.

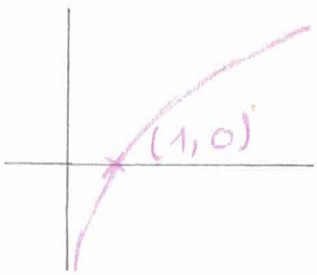
Asíntota horizontal: $y = 0$.

LOGARÍTMICAS: $y = \log_a x \Rightarrow a^y = x$

$0 < a < 1$



$a > 1$

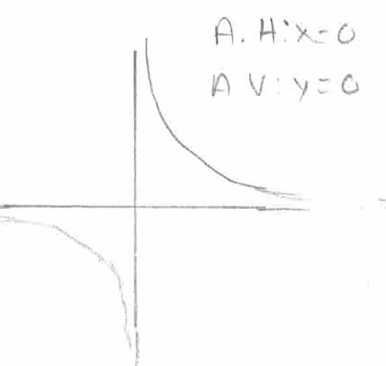


Asíntota vertical $x = 0$.

PROPORCIONALIDAD INVERSA: $y = \frac{k}{x+a}+b$

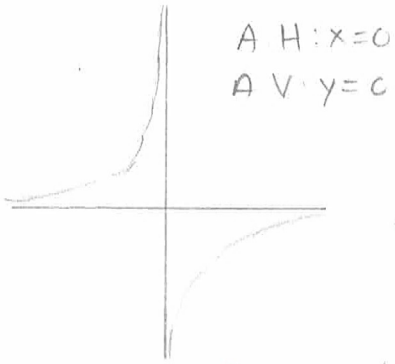
- Asíntota vertical: $x = a$.
- Asíntota horizontal: $y = b$.

$y = \frac{k}{x}$ $k > 0$



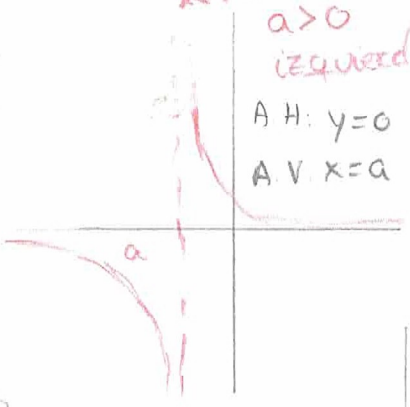
A. H: $x = 0$
A V: $y = 0$

$y = \frac{k}{x}$ $k < 0$



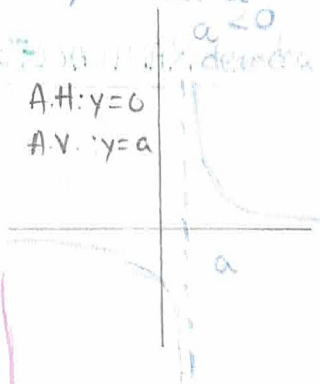
A H: $x = 0$
A V: $y = 0$

$y = \frac{k}{x+a}$ $a > 0$ izquierda

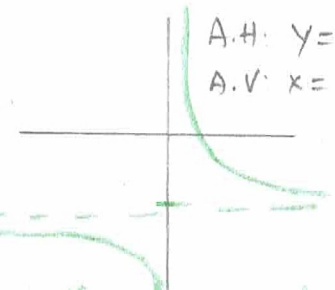


A H: $y = 0$
A V: $x = a$

$y = \frac{k}{x+a}$ $a < 0$ derecha

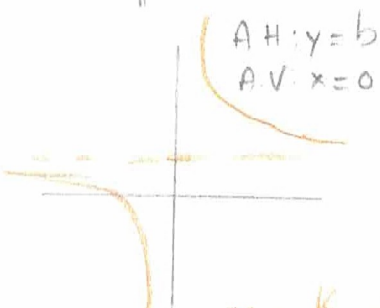


A.H: $y = 0$
A.V: $y = a$



A.H: $y = b$
A.V: $x = 0$

$y = \frac{k}{x}+b$, $b < 0$ abajo



A H: $y = b$
A V: $x = 0$

$y = \frac{k}{x}+b$, $b > 0$ arriba

A H: $y = b$
A V: $x = a$

$y = \frac{k}{x+a}+b$