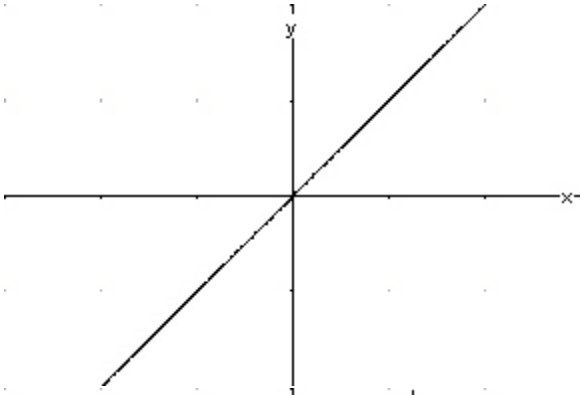
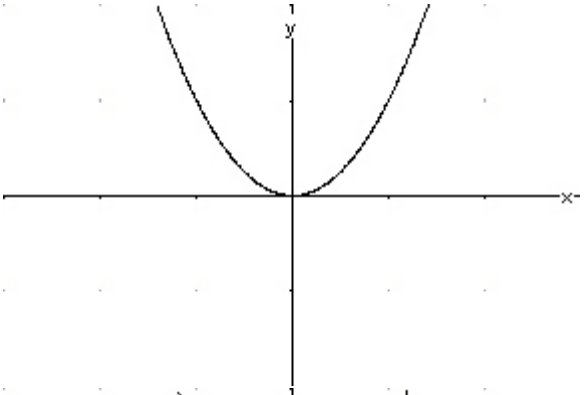
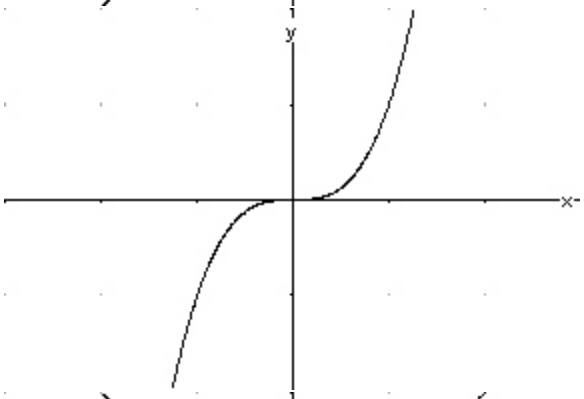
Graphs



← $y = x$

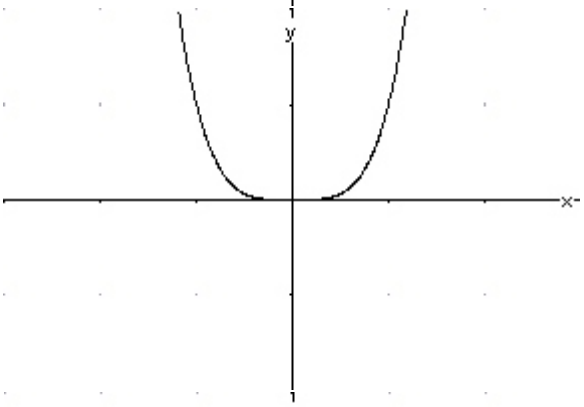
$y = x^2$ →

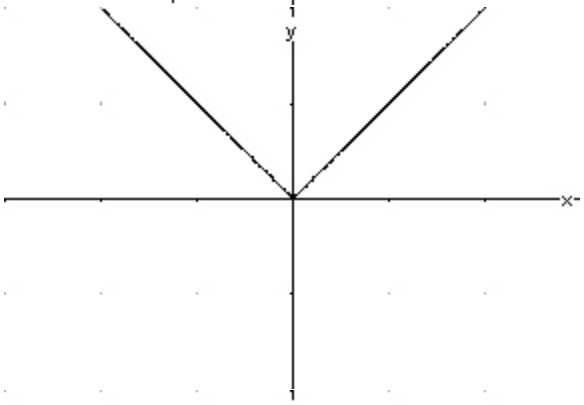




← $y = x^3$

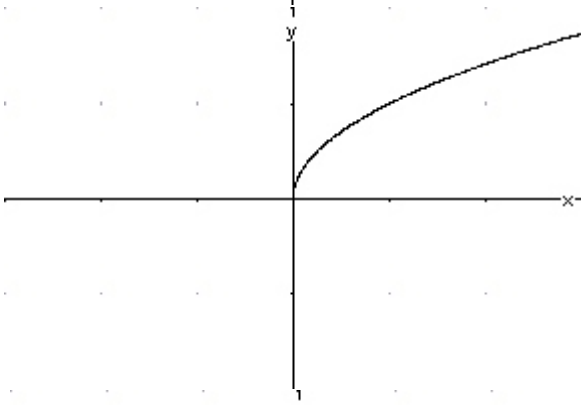
$y = x^4$ →

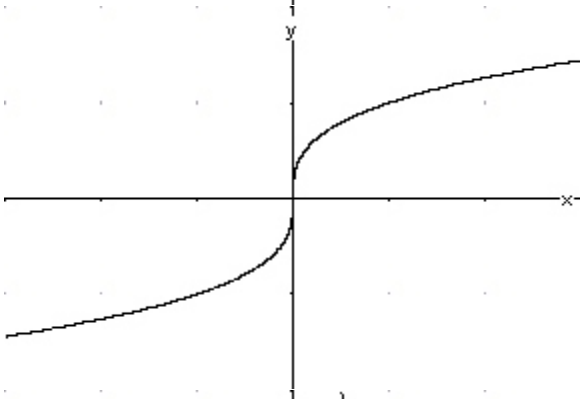




← $y = |x|$

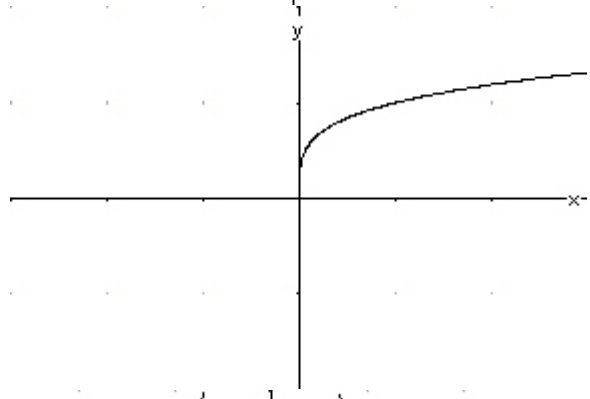
$y = \sqrt{x}$ →

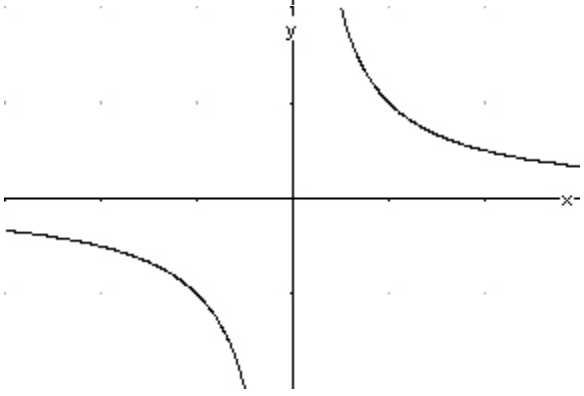




← $y = \sqrt[3]{x}$

$y = \sqrt[4]{x}$ →



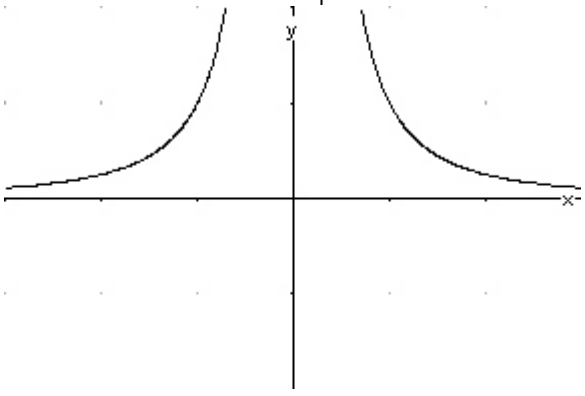


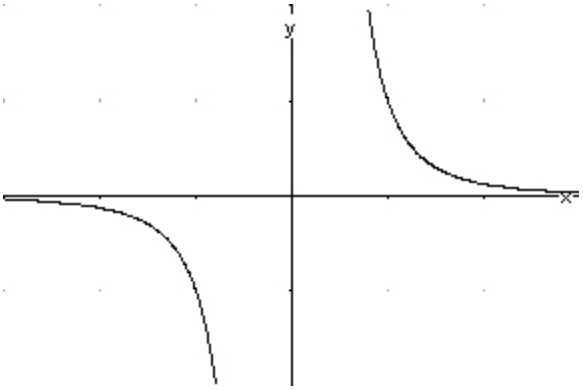
← $y = \frac{1}{x}$

VA: $x = 0$
HA: $y = 0$

$y = \frac{1}{x^2}$ →

VA: $x = 0$
HA: $y = 0$



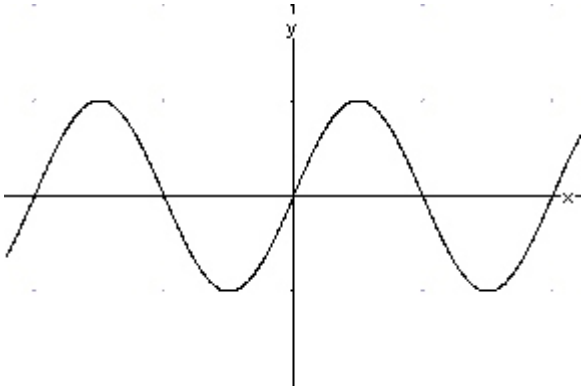


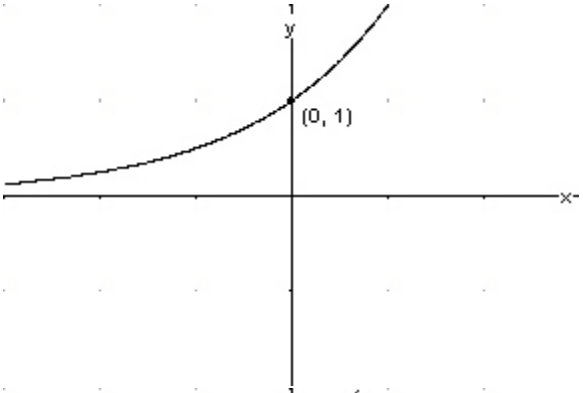
← $y = \dfrac{1}{x^3}$

VA: $x = 0$

HA: $y = 0$

$y = \sin x$ →



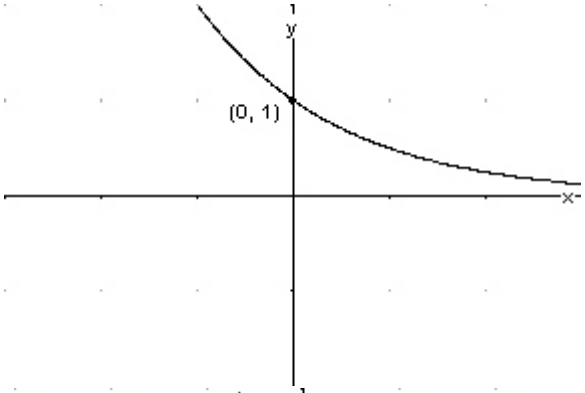


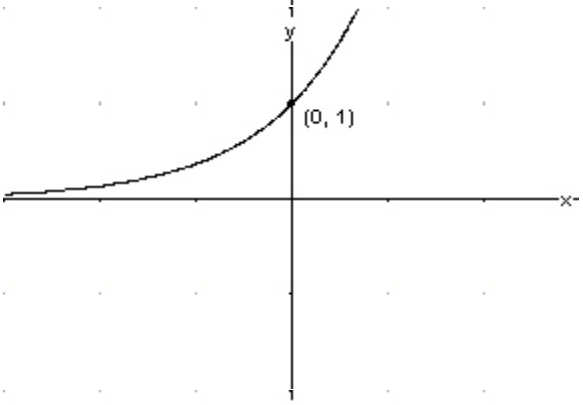
← $y = 2^x$

HA: $y = 0$

$y = 2^{-x} = \left(\dfrac{1}{2}\right)^x$ →

HA: $y = 0$



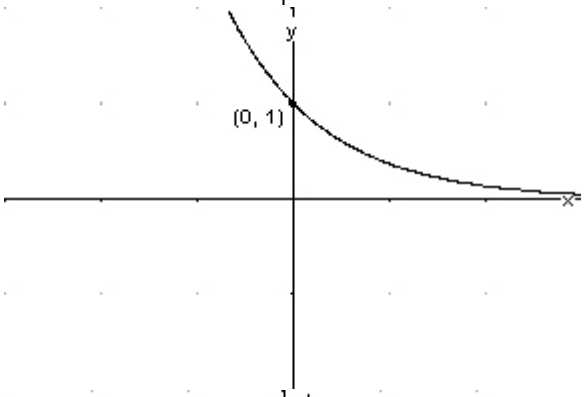


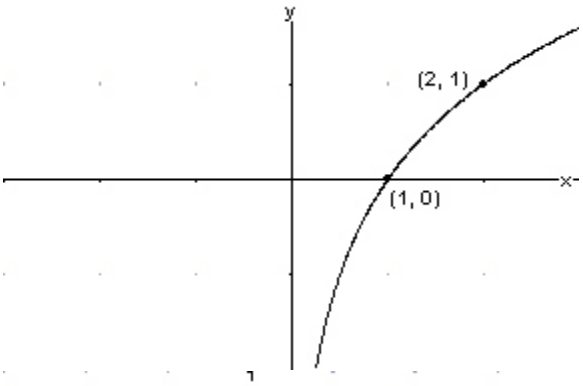
← $y = e^x$

HA: $y = 0$

$y = e^{-x}$ →

HA: $y = 0$



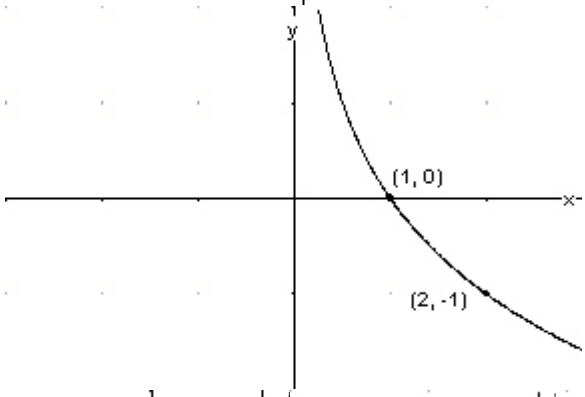


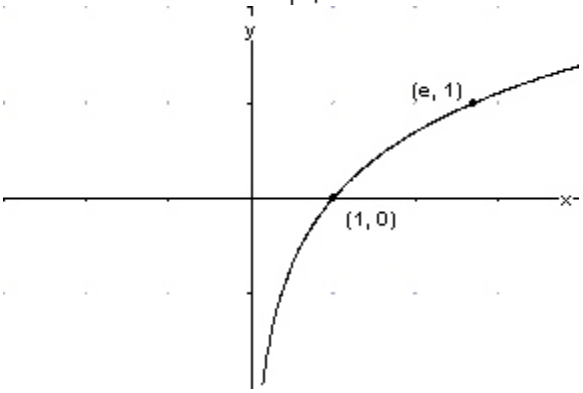
← $y = \log_2 x$

VA: $x = 0$

$y = \log_{\frac{1}{2}} x$ →

VA: $x = 0$

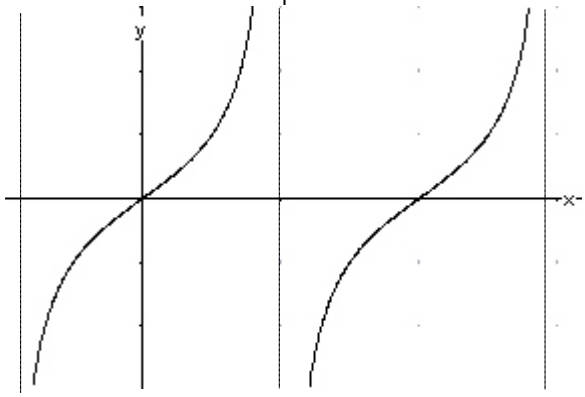




← $y = \ln x$

VA: $x = 0$

$y = \tan x$ →

VA: $x = \pm(2n+1)\dfrac{\pi}{2}$

$n = 0, 1, 2, \ldots$