

Логарифмическая функция.

Преобразования графиков.

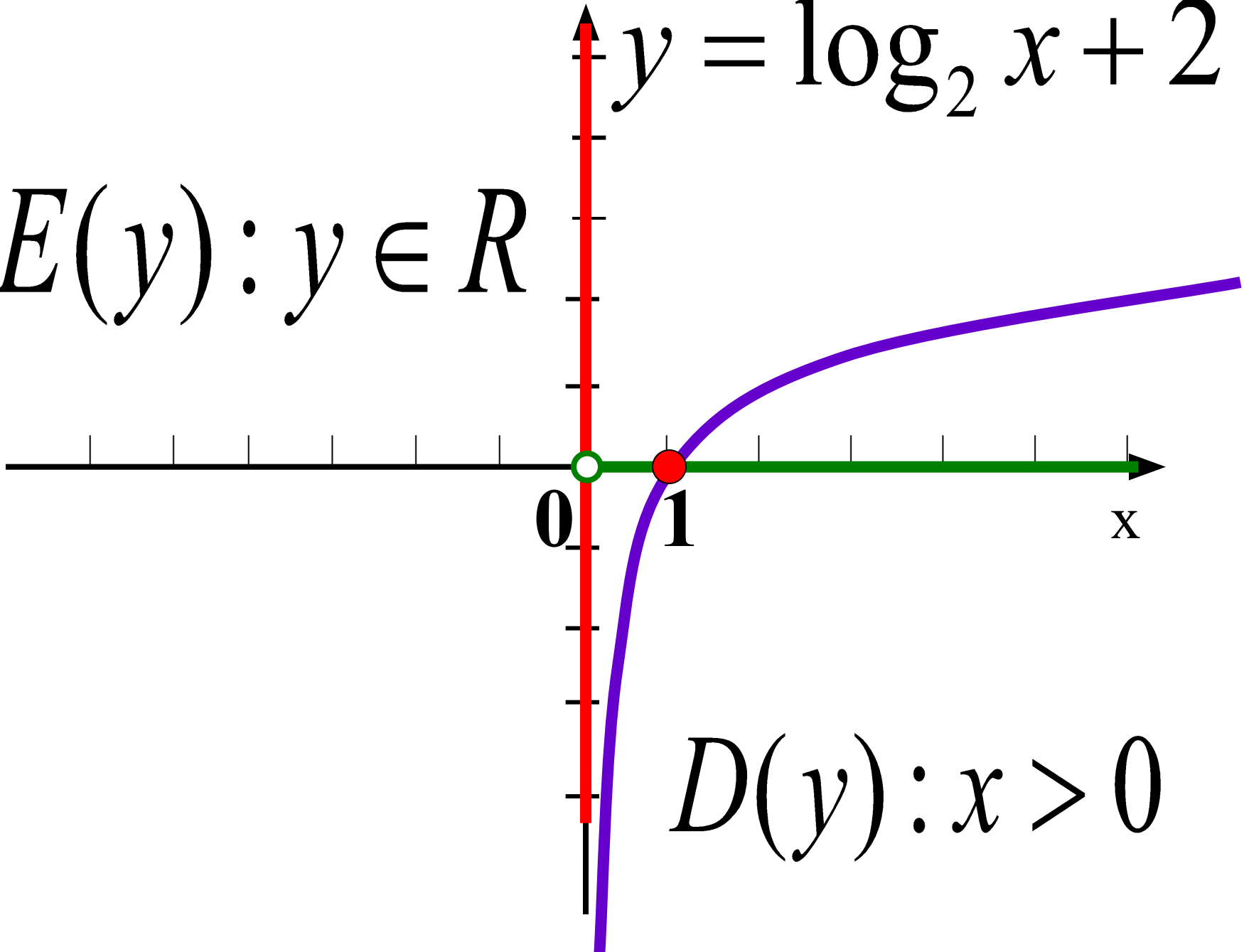
Методическая разработка

Савченко Е.М.

МОУ гимназия № 1,

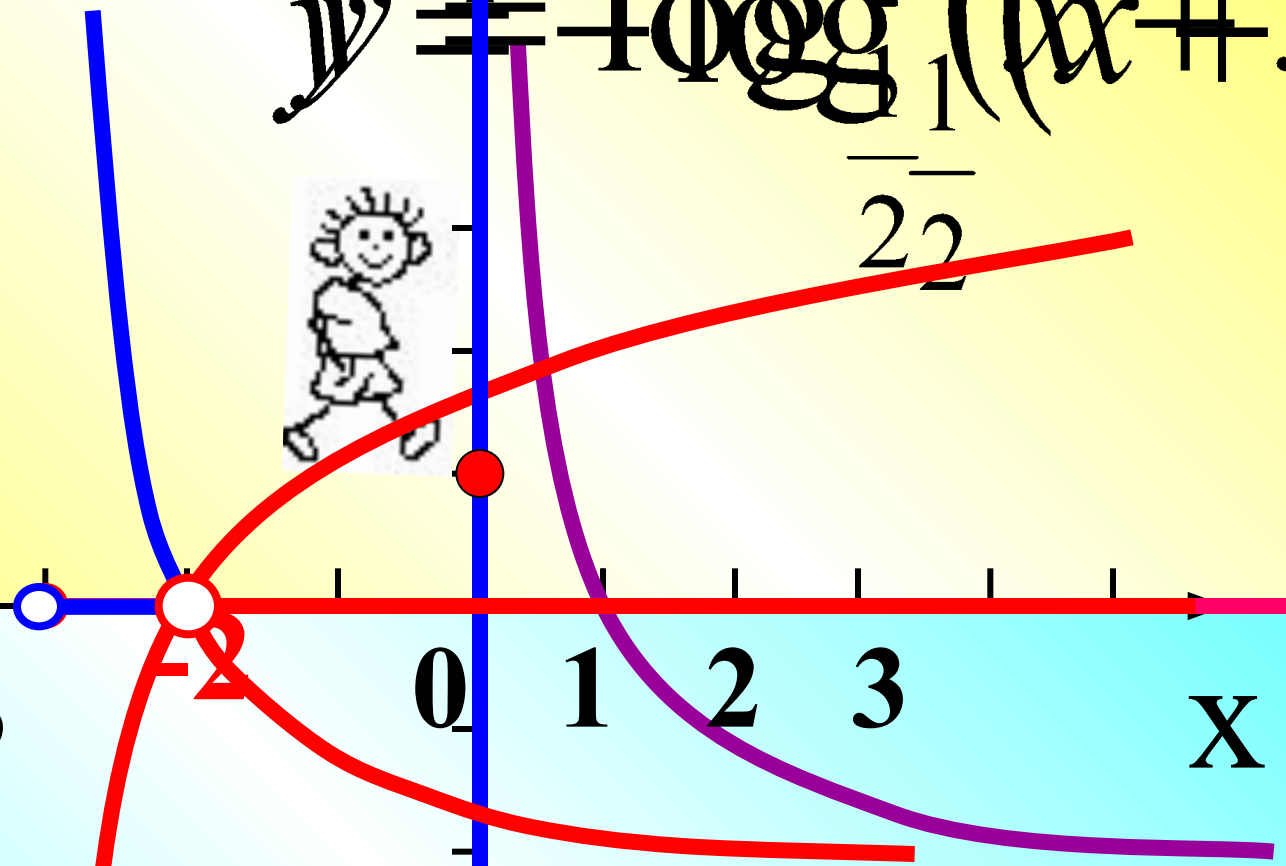
$$y = \log_2 x + 2$$

$$E(y) : y \in \mathbb{R}$$



$$D(y) : x > 0$$

$$y = -\frac{1}{2} \log_1(x+3)$$



-3

-2

0

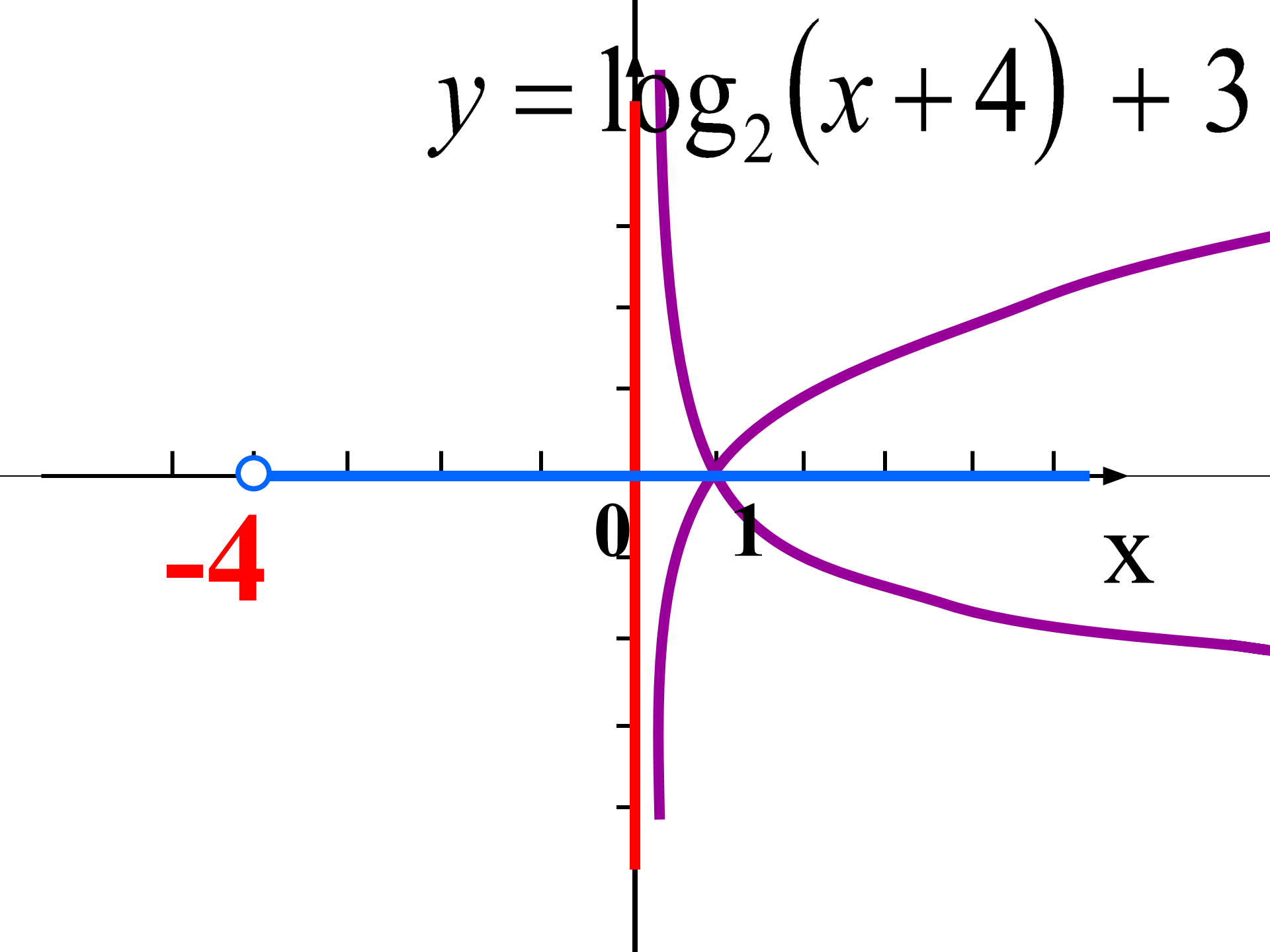
1

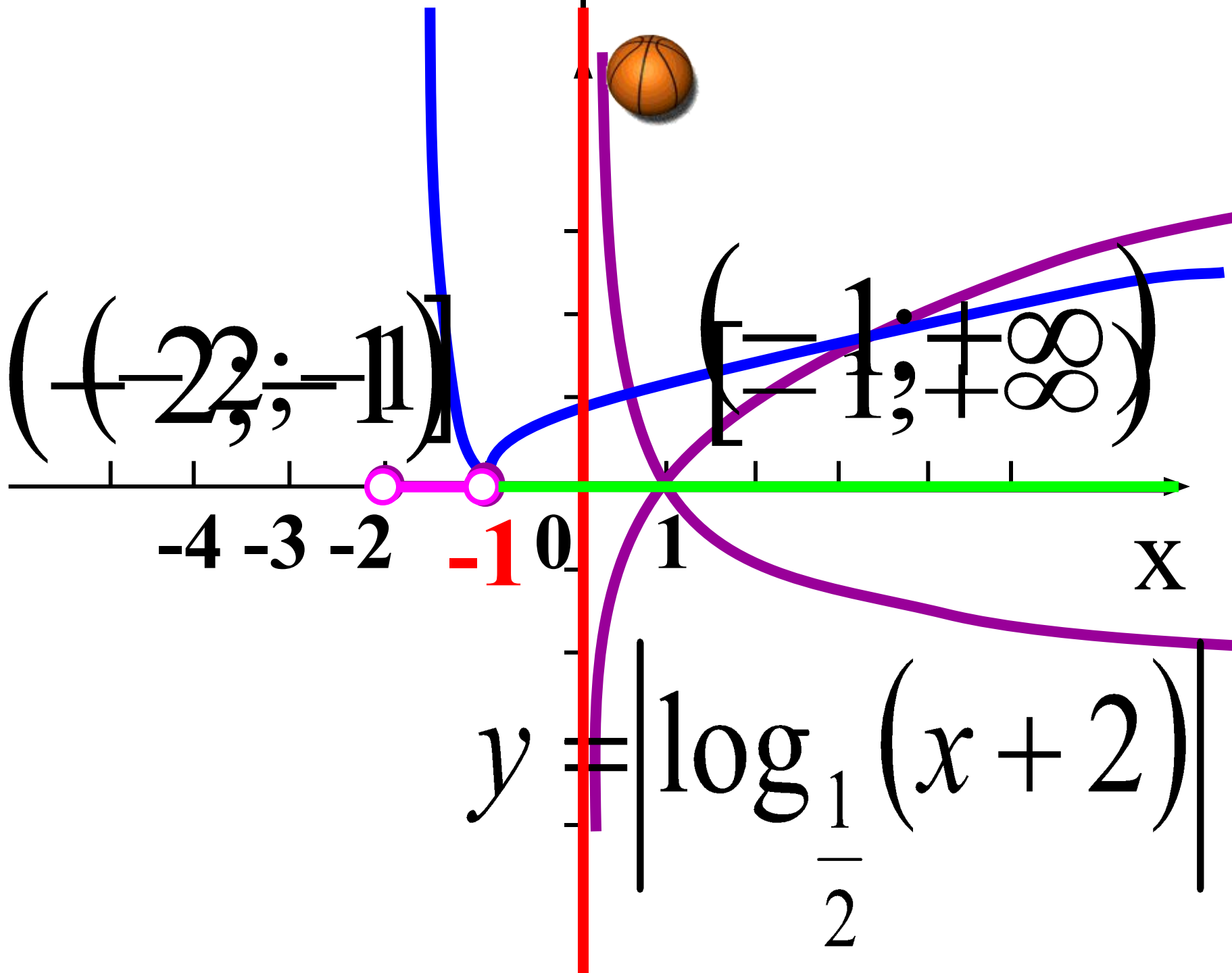
2

3

x

$$y = \log_2(x + 4) + 3$$





$(-2; -1)$

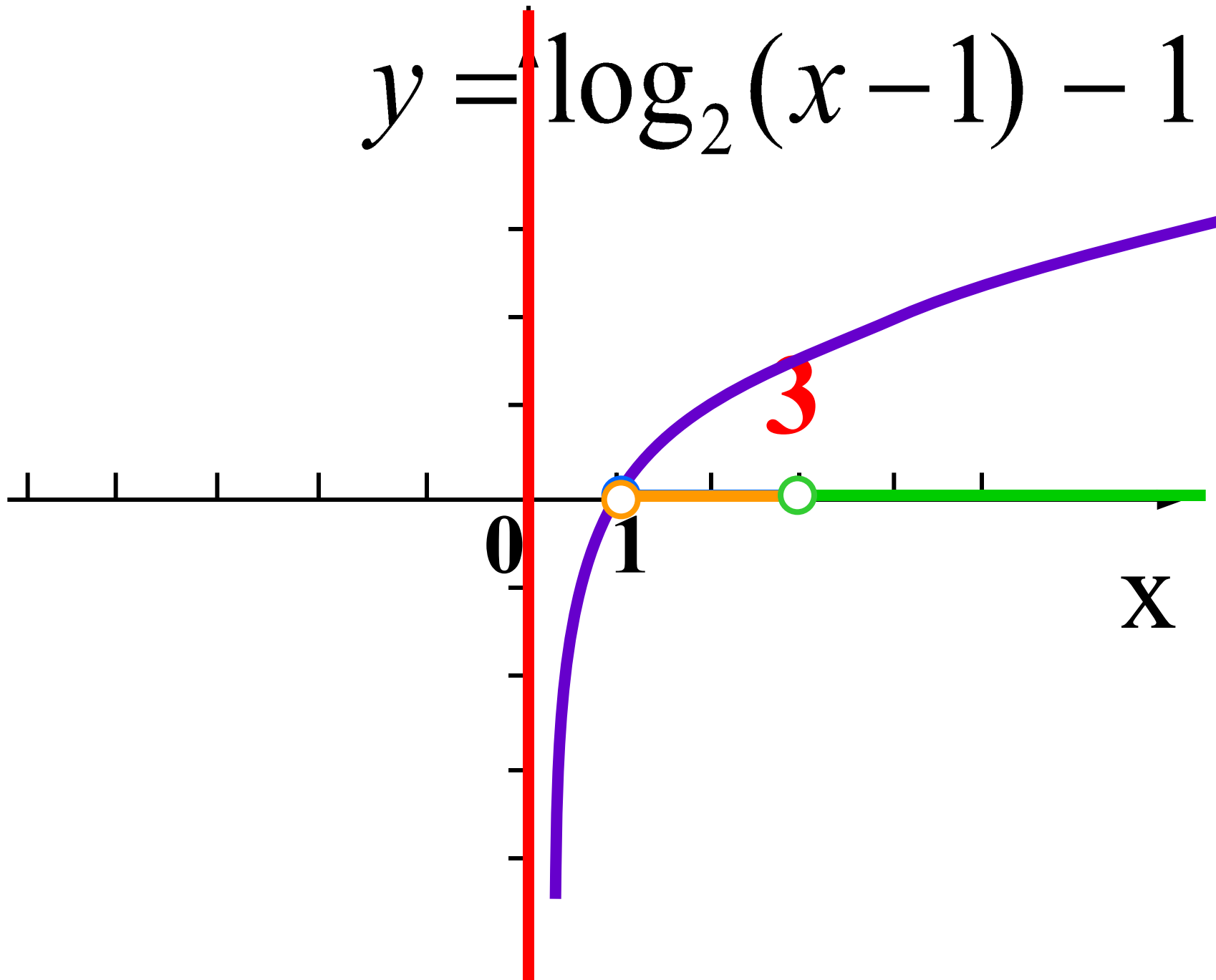
$(-1; \pm\infty)$

-4 -3 -2 -1 0 1

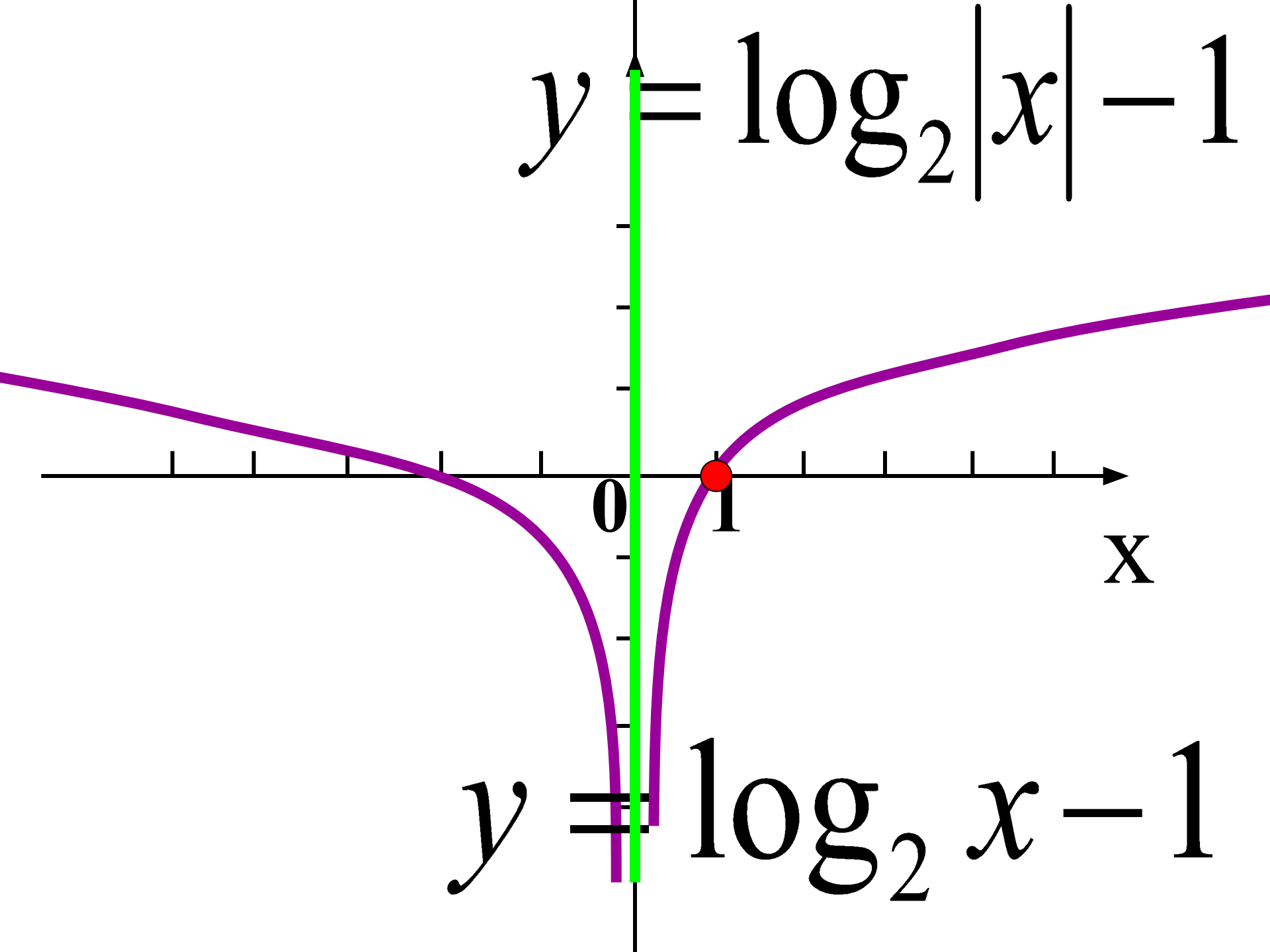
x

$$y = \left| \log_{\frac{1}{2}}(x+2) \right|$$

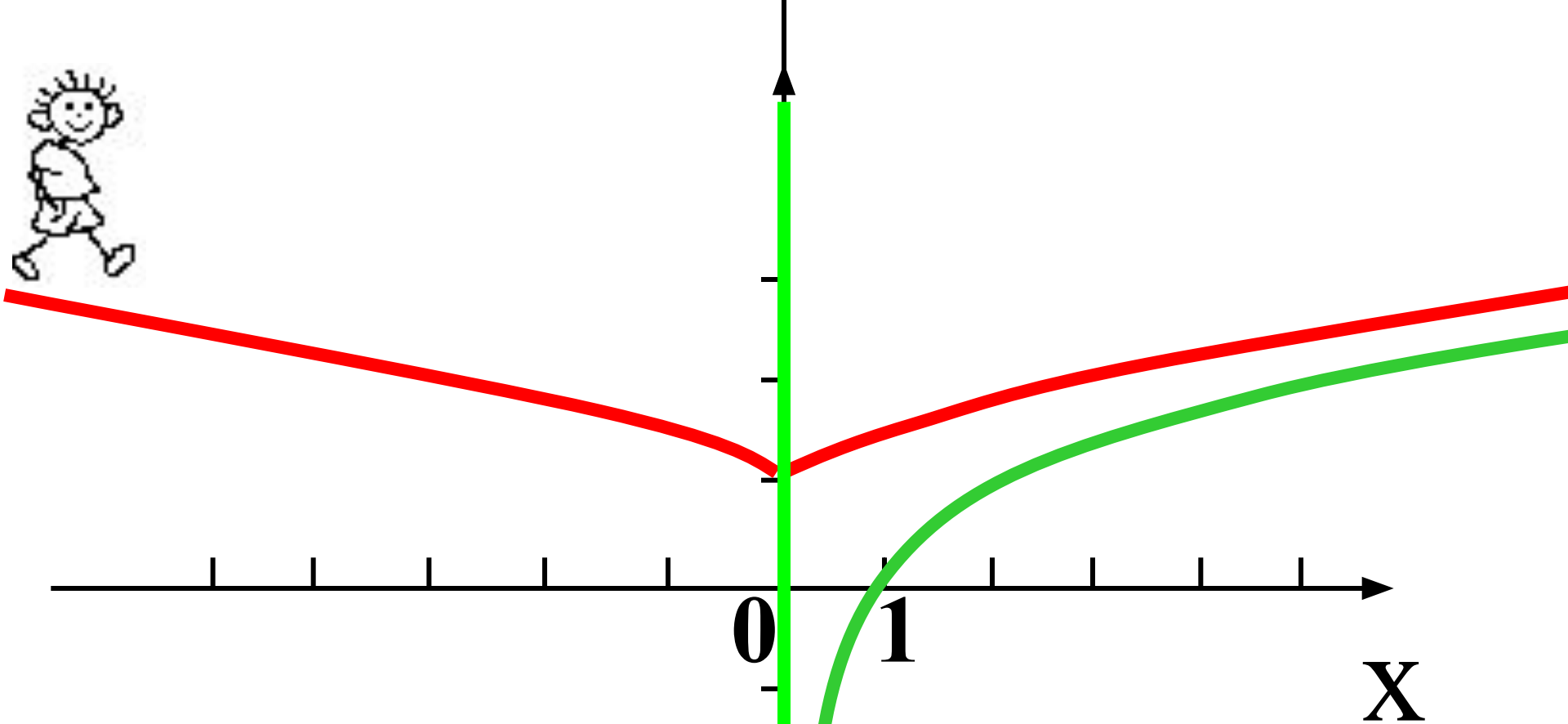
$$y = \log_2(x - 1) - 1$$



$$y = \log_2 |x| - 1$$

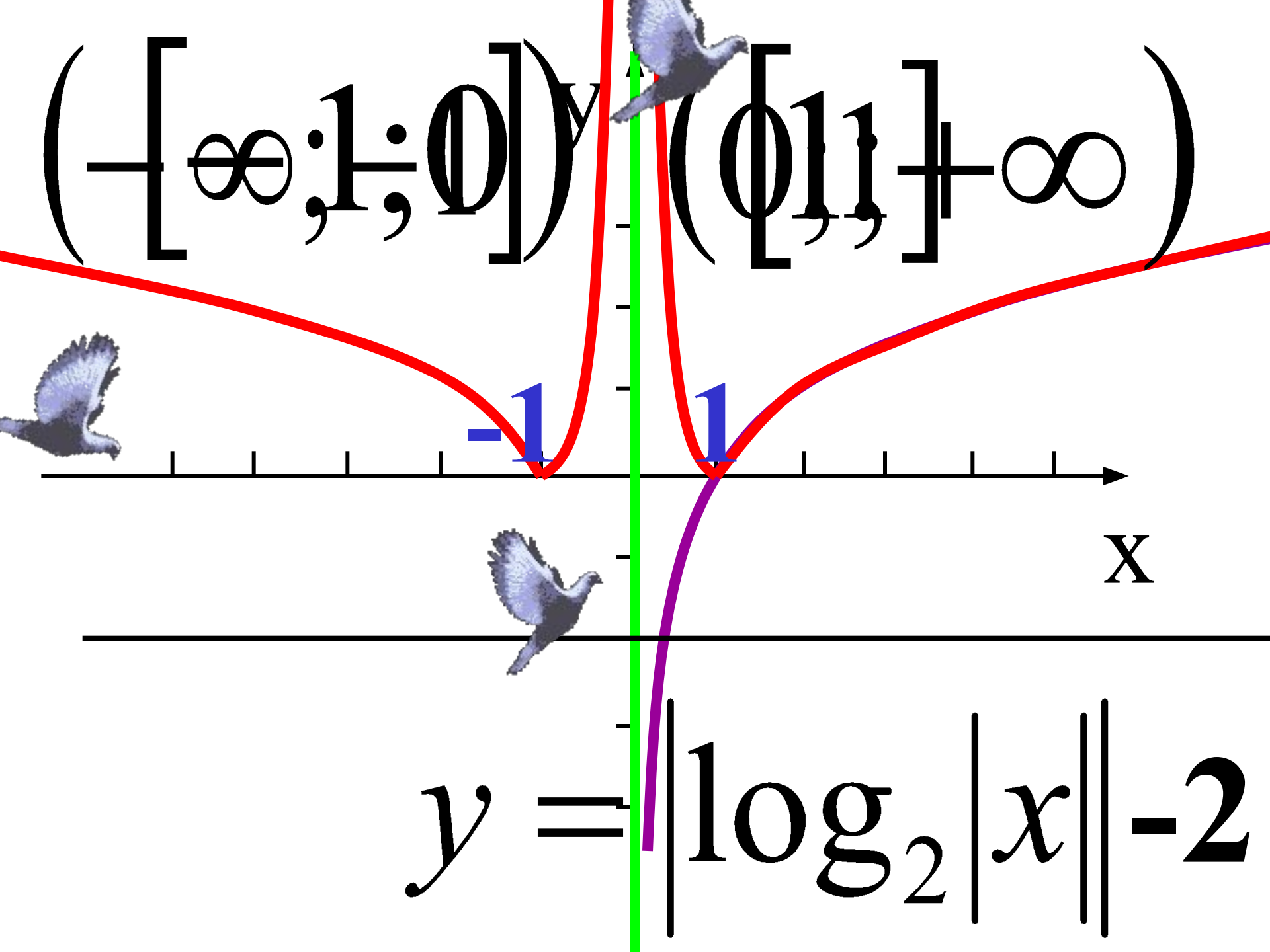


$$y = \log_2 x - 1$$

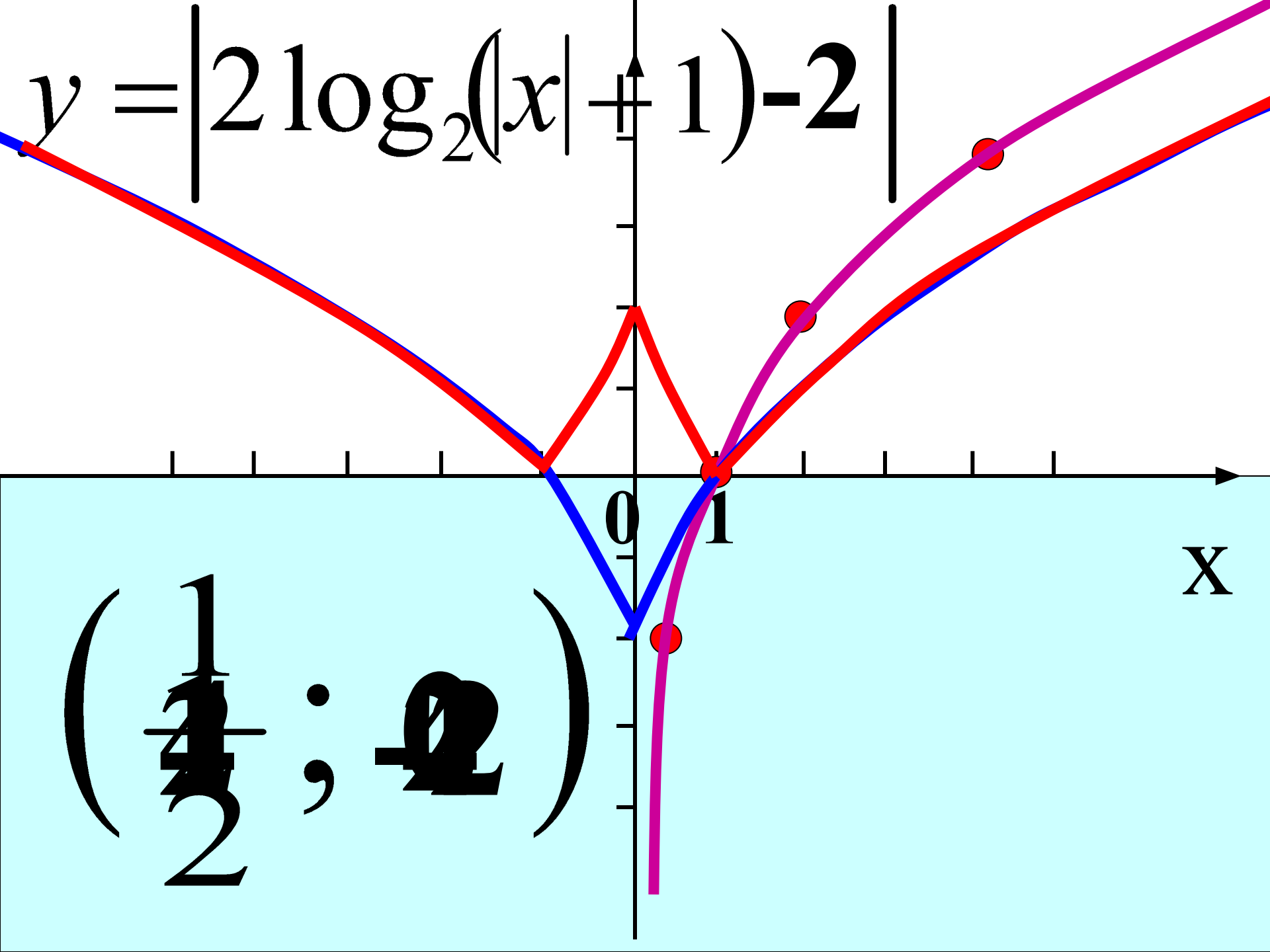


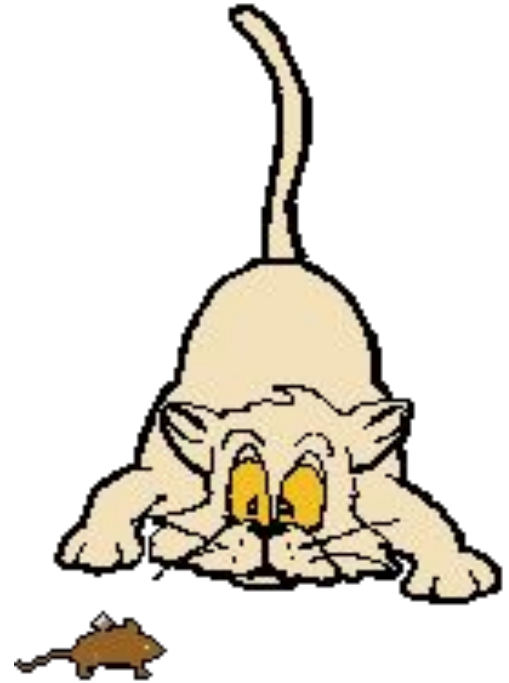
$$y = \log_2(|x| + 2)$$

$$\left(\left[\begin{array}{c} -\infty \\ 1 \\ 0 \end{array} \right] \right)_y \left(\left[\begin{array}{c} 1 \\ 1 \\ +\infty \end{array} \right] \right)_x$$



$$y = |\log_2|x|| - 2$$





Зарядка!