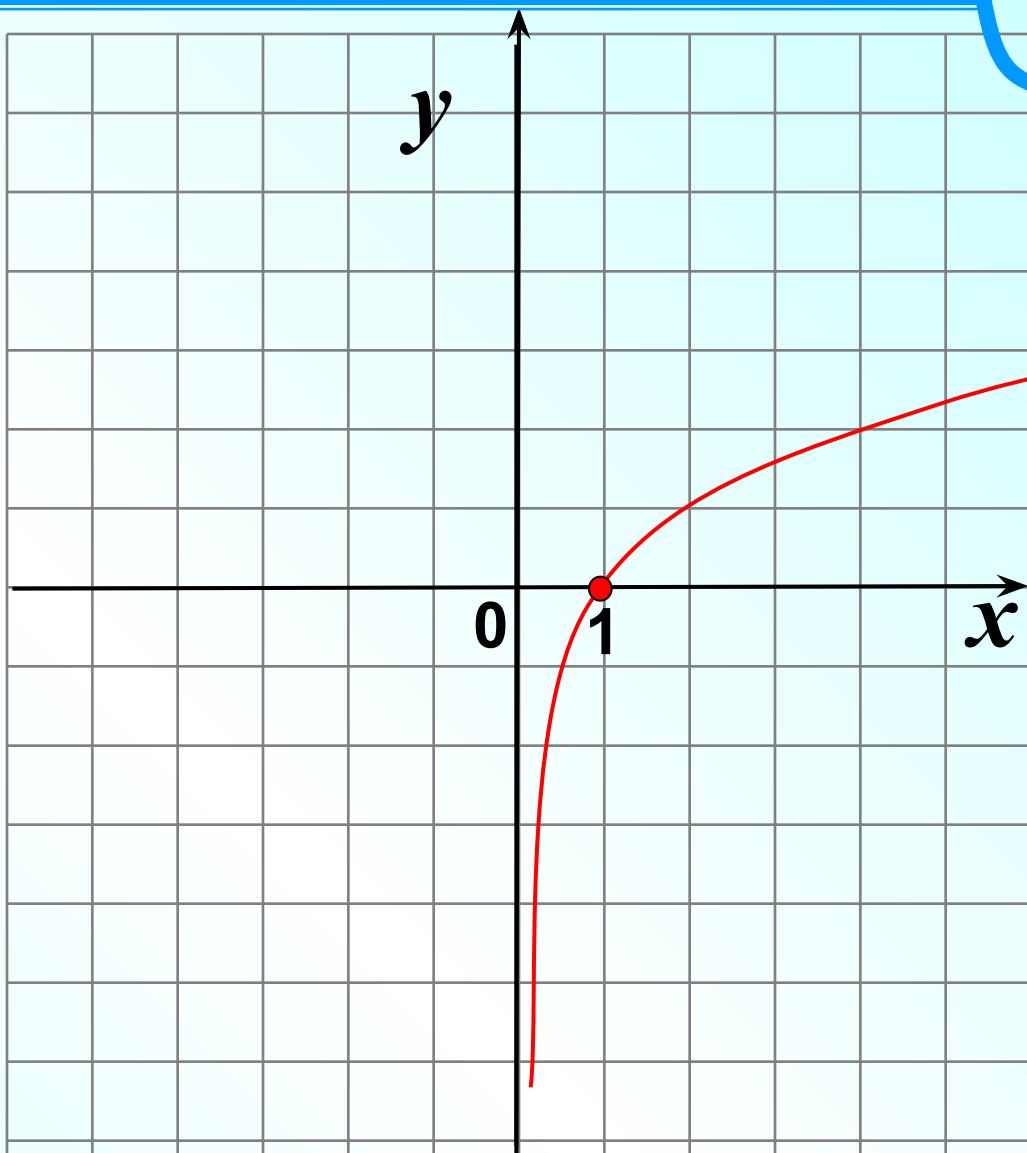


$$y = \log_2(x-2)$$

$$D(y) : x > 2$$

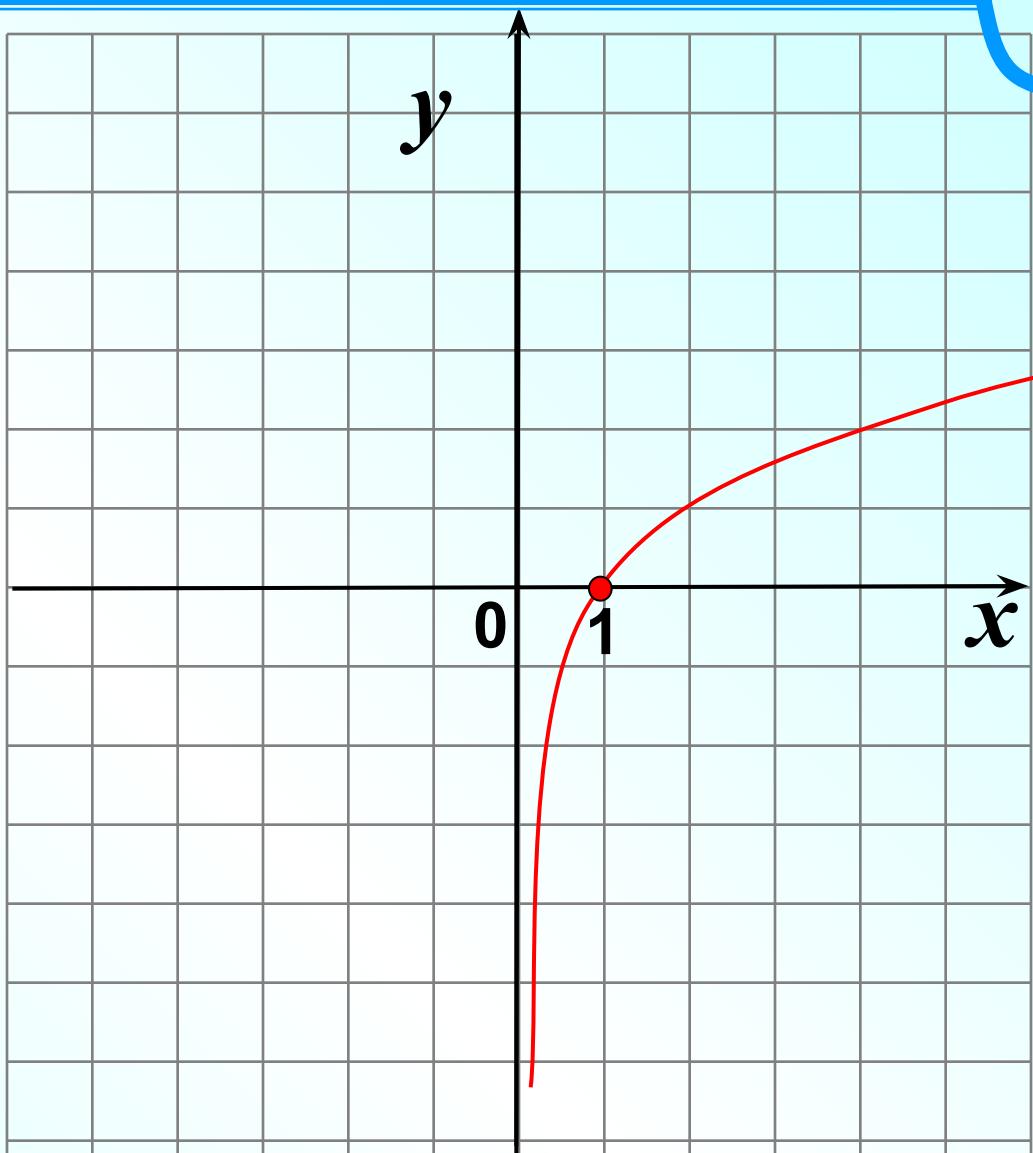
$$E(y) : y \in R$$



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

$$D(\overset{g}{y}) : x > -4$$

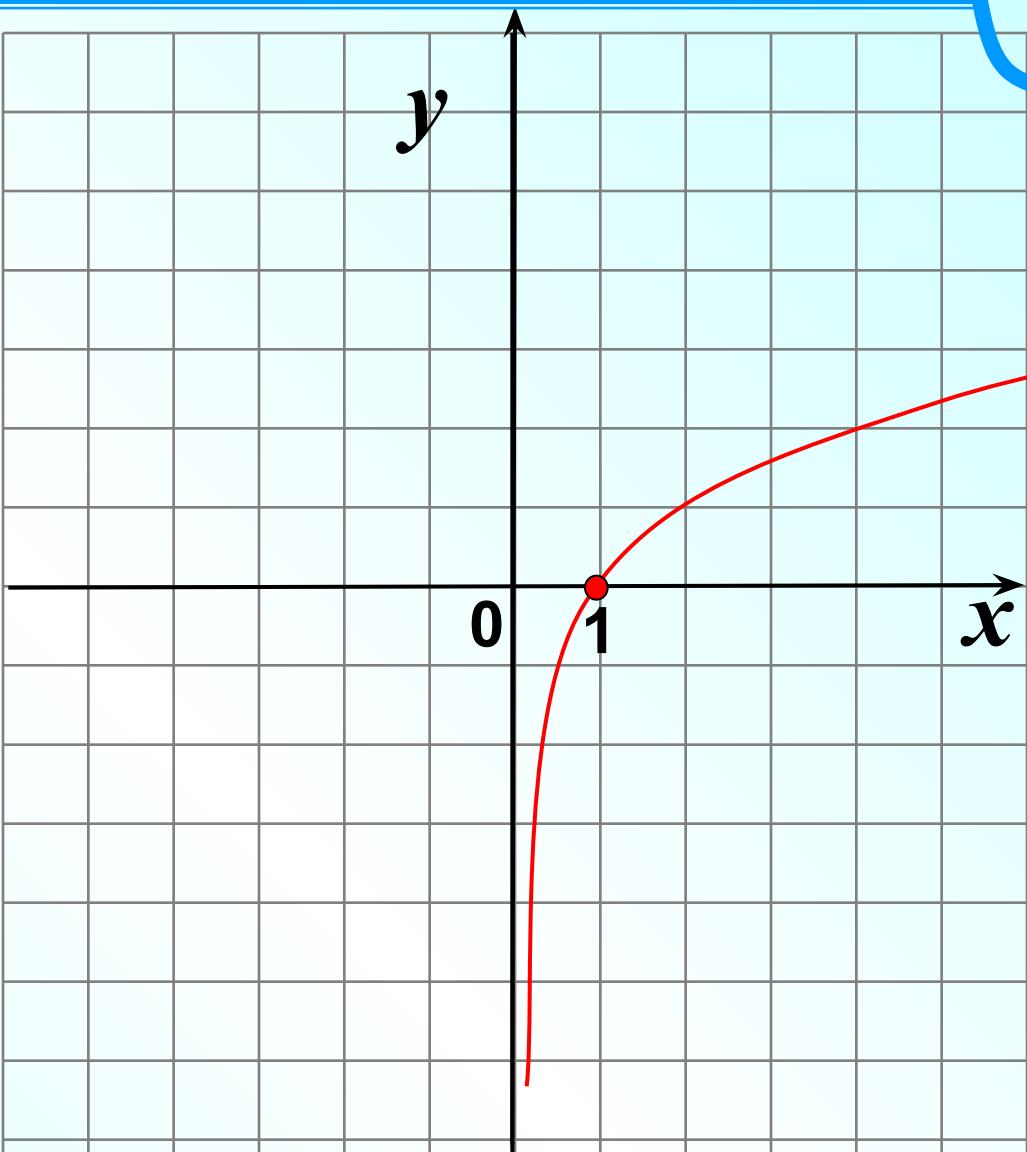
$$E(y) : y \in R$$



$$y = \log_2 x + 2$$

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

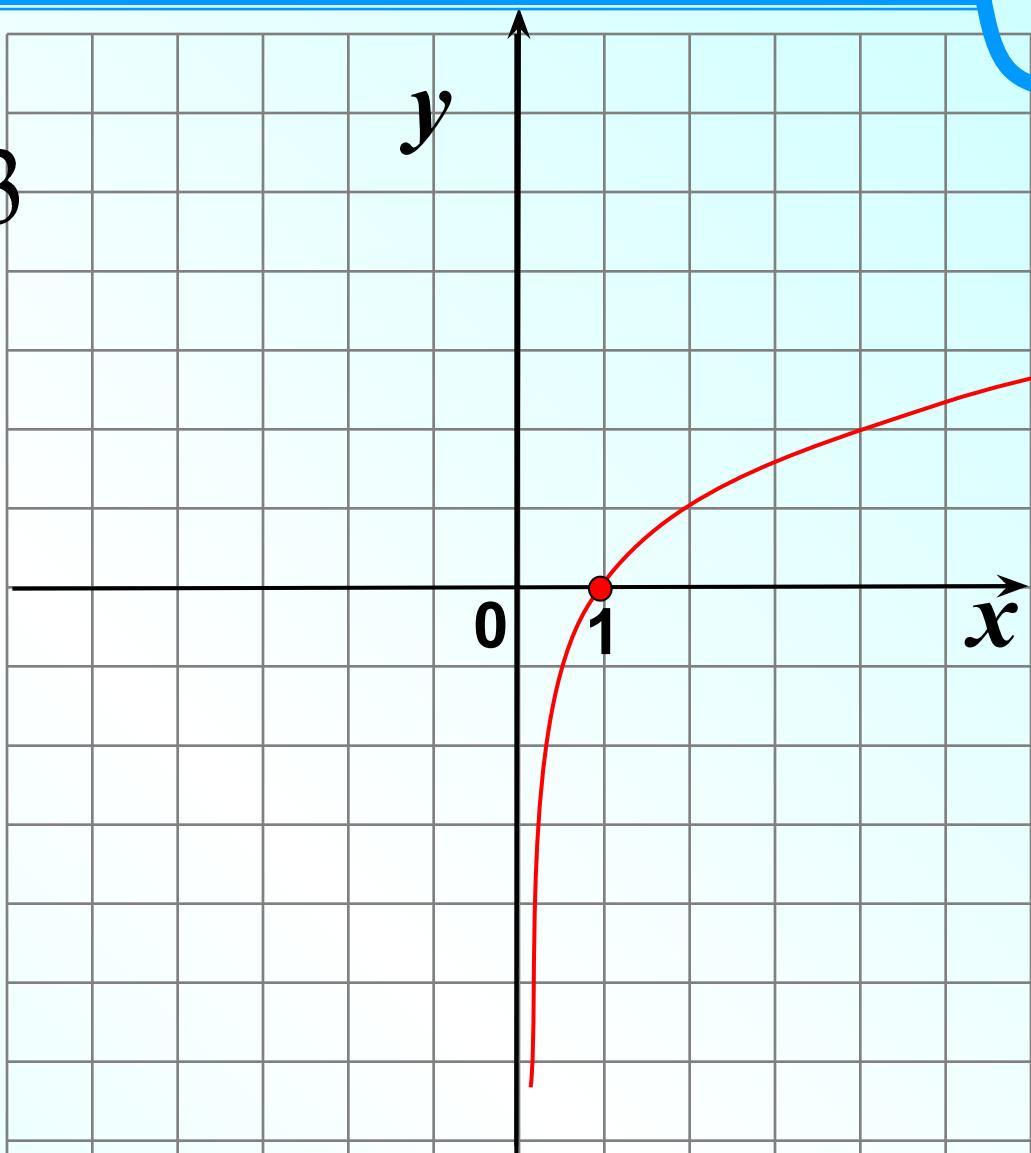
$$E(y) : y \in R$$



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

$$D(y) : x > -4$$

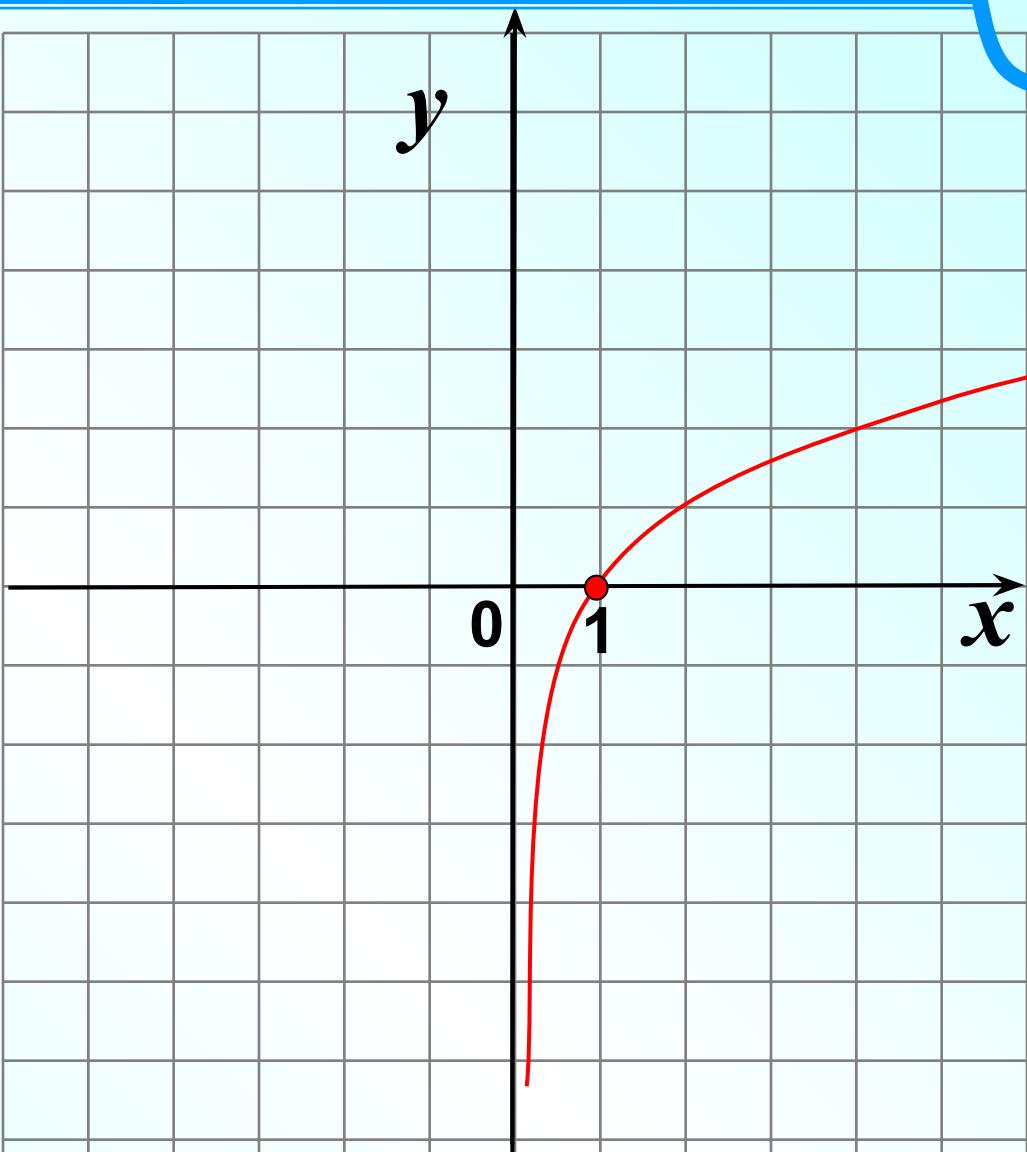
$$E(y) : y \in R$$



$$y = \log_2 x - 2$$

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

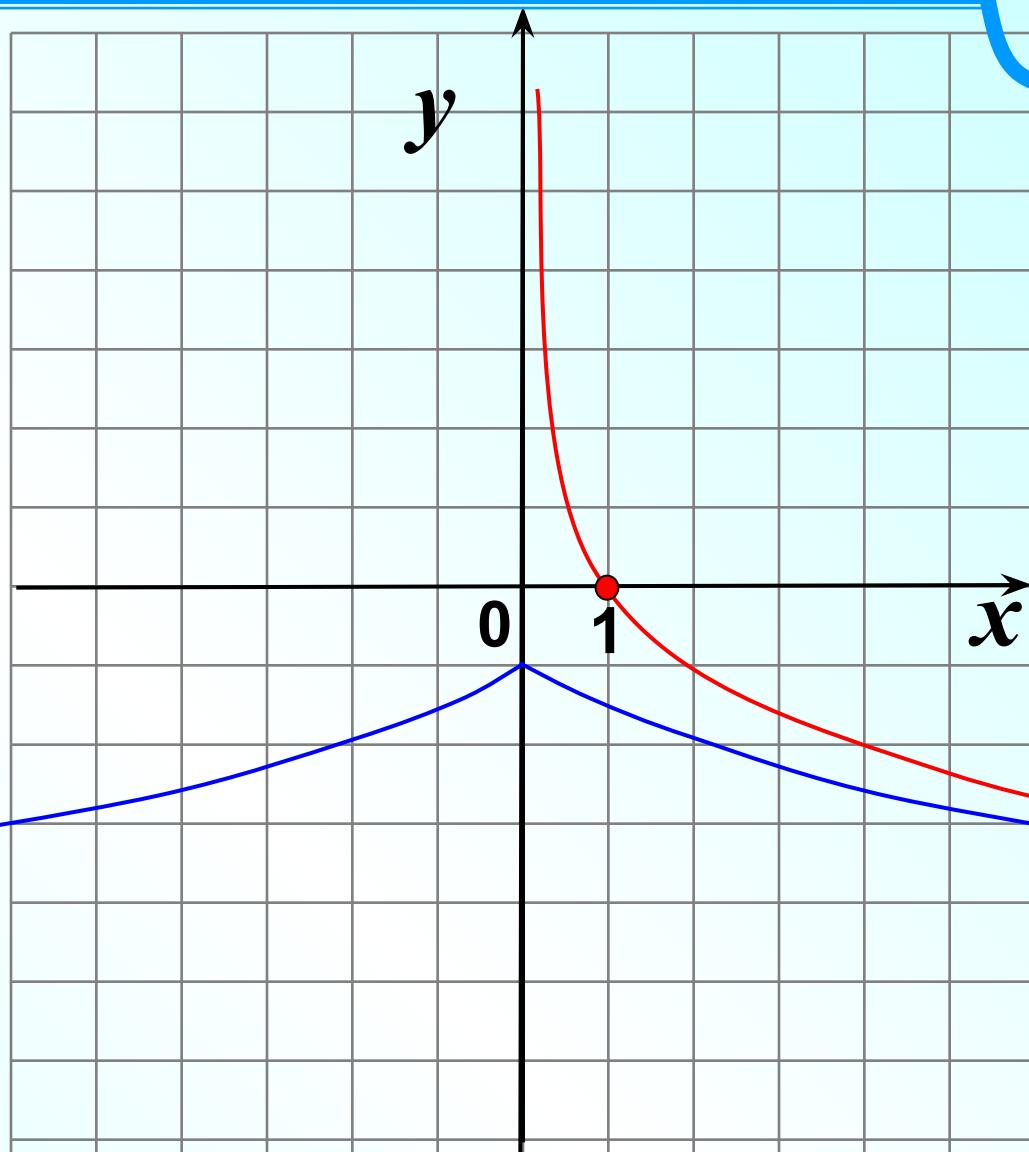
$$E(y) : y \in R$$



$$y = \operatorname{lo}_g^{\frac{1}{2}}(|x|+2)$$

$$D(y) : x \in R$$

$$E(y) : y \leq -1$$

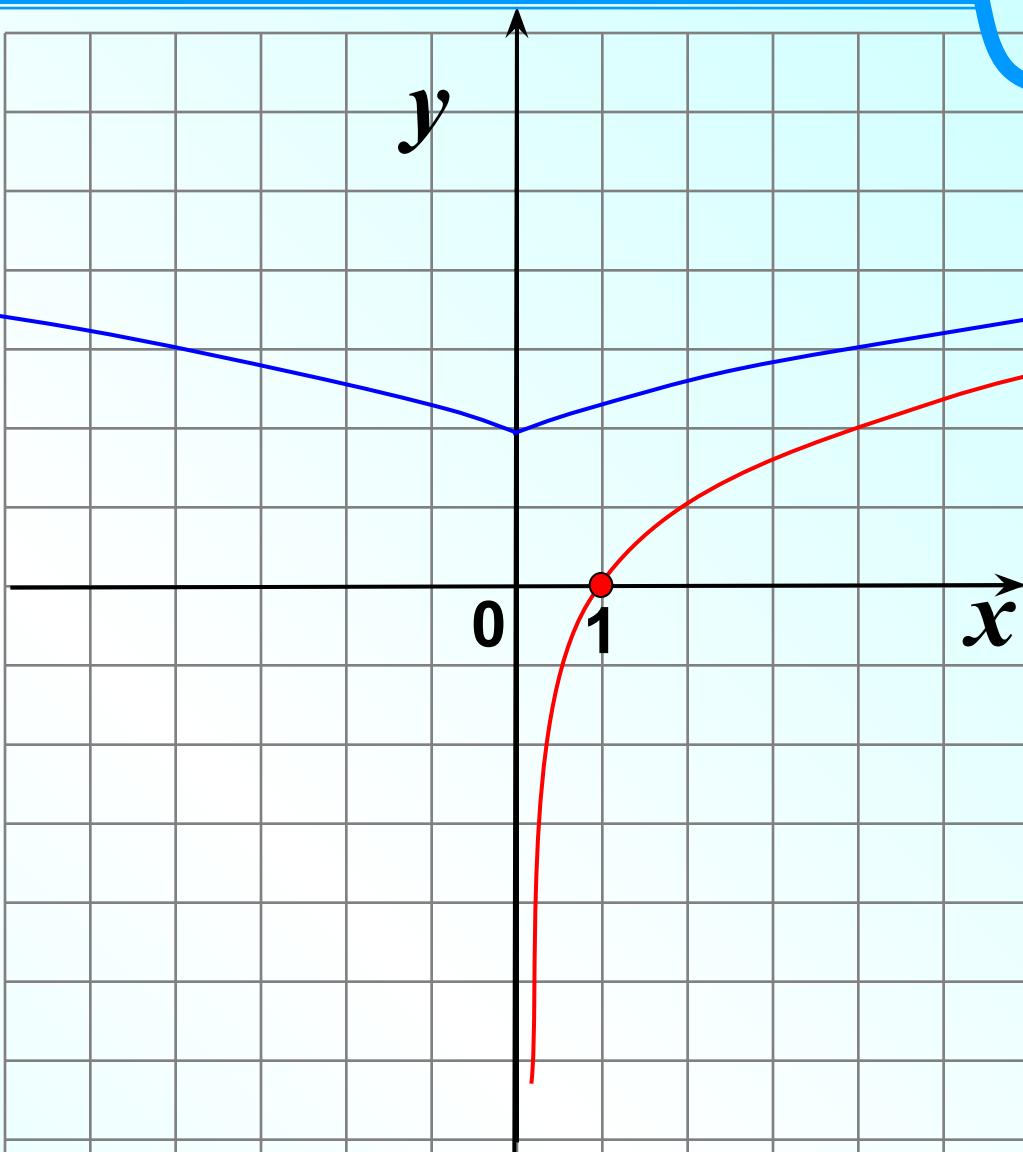


$$y = \operatorname{lo}_g^{\frac{1}{2}}(|x|+2)$$

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

$$D(y) : x \in R$$

$$E(y) : y \geq 2$$



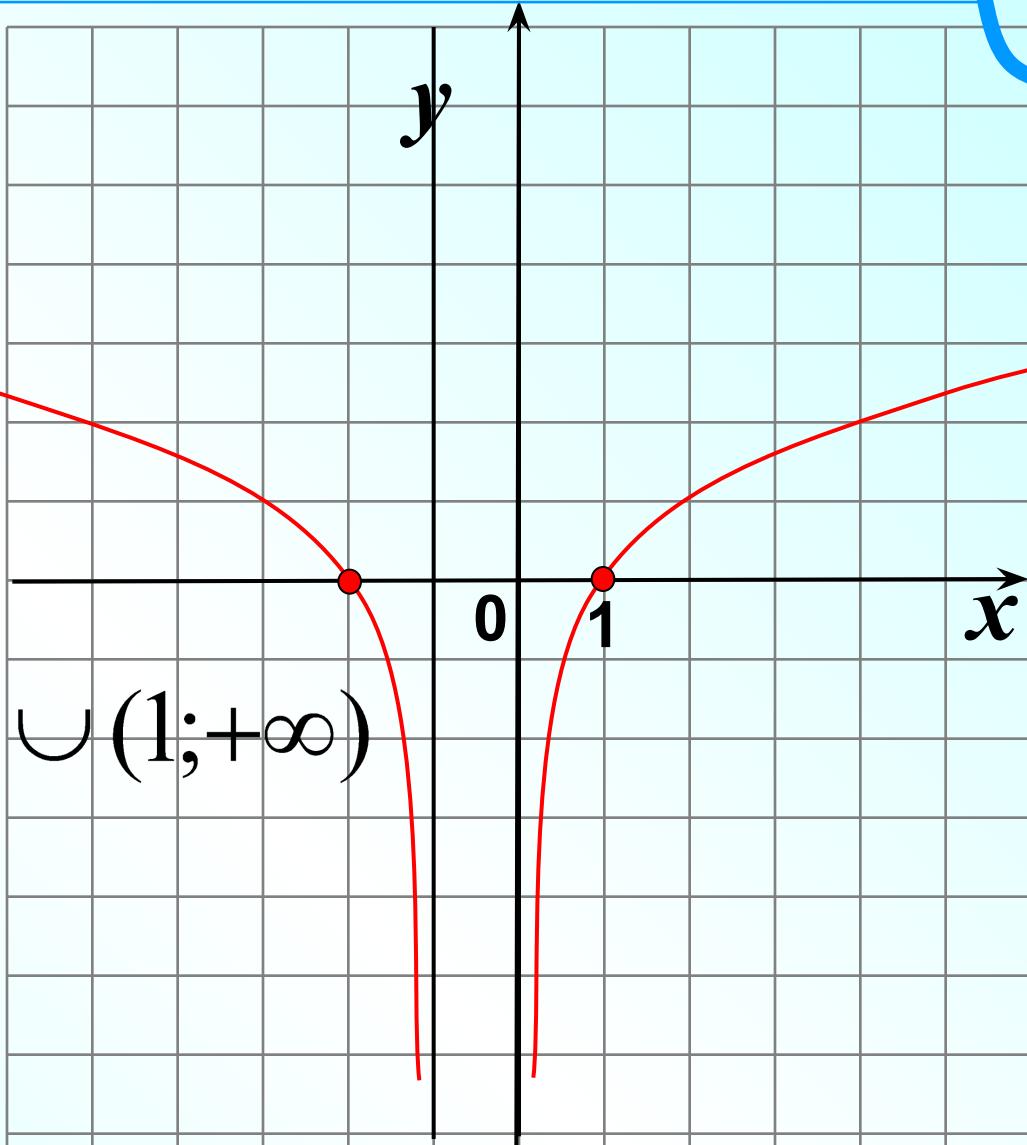
$$y = \log_2(|x| + 4)$$

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

g

$$D(y) : x \in (-\infty; -1) \cup (1; +\infty)$$

$$E(y) : y \in R$$



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

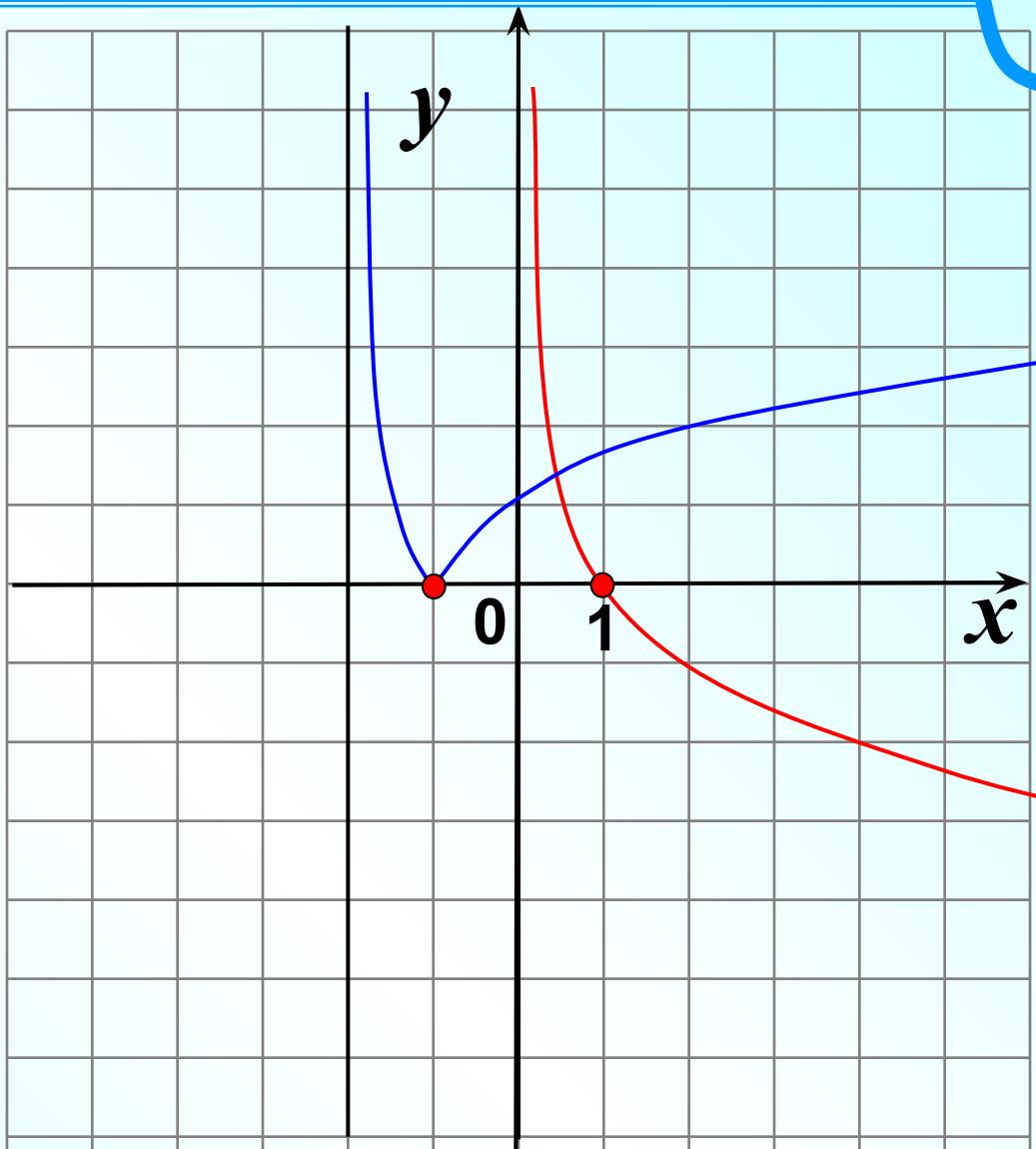
g

Симметрия относительно оси ординат.

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

$$D(y) : x > -2$$

$$E(y) : y \geq 0$$

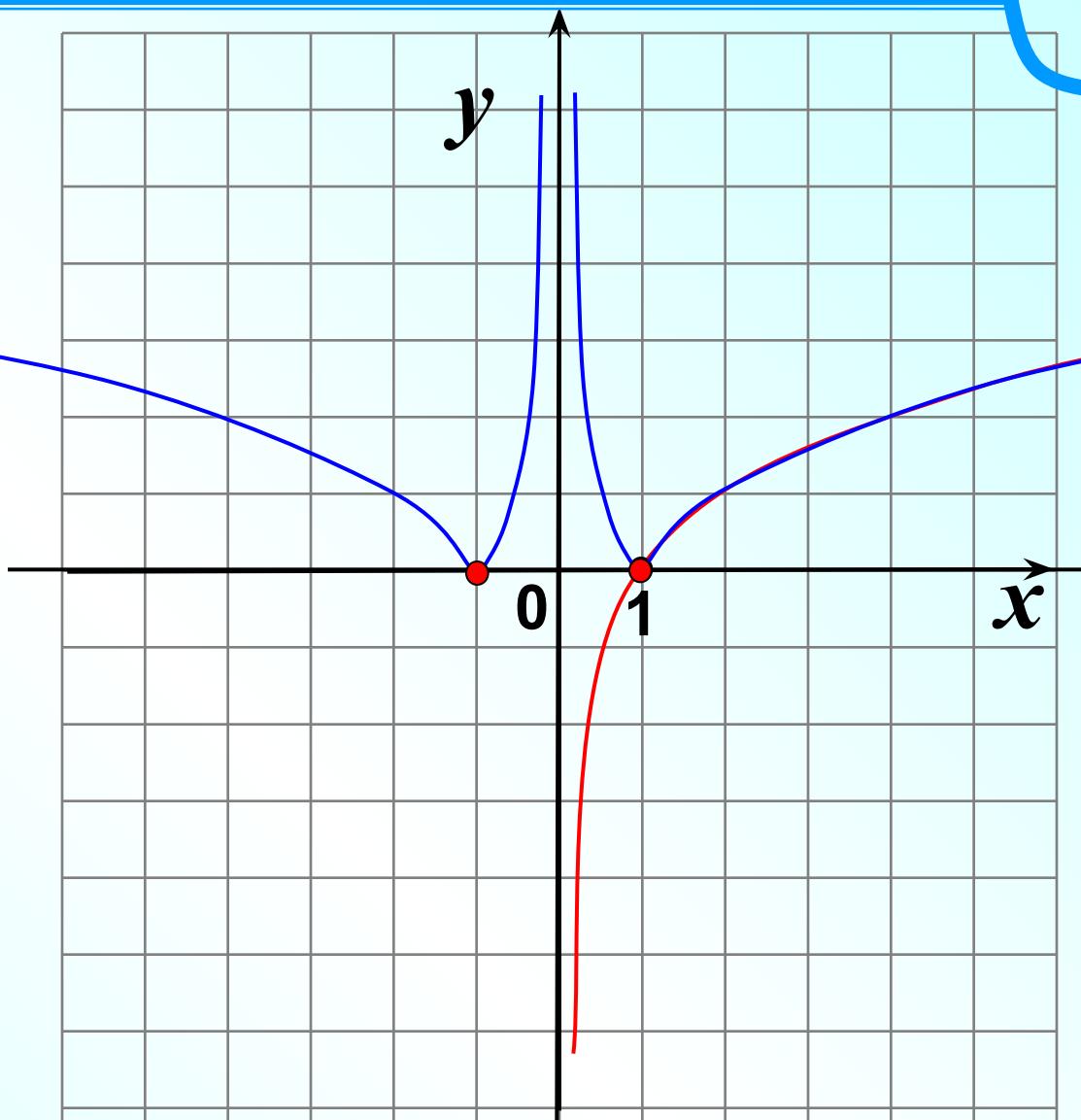


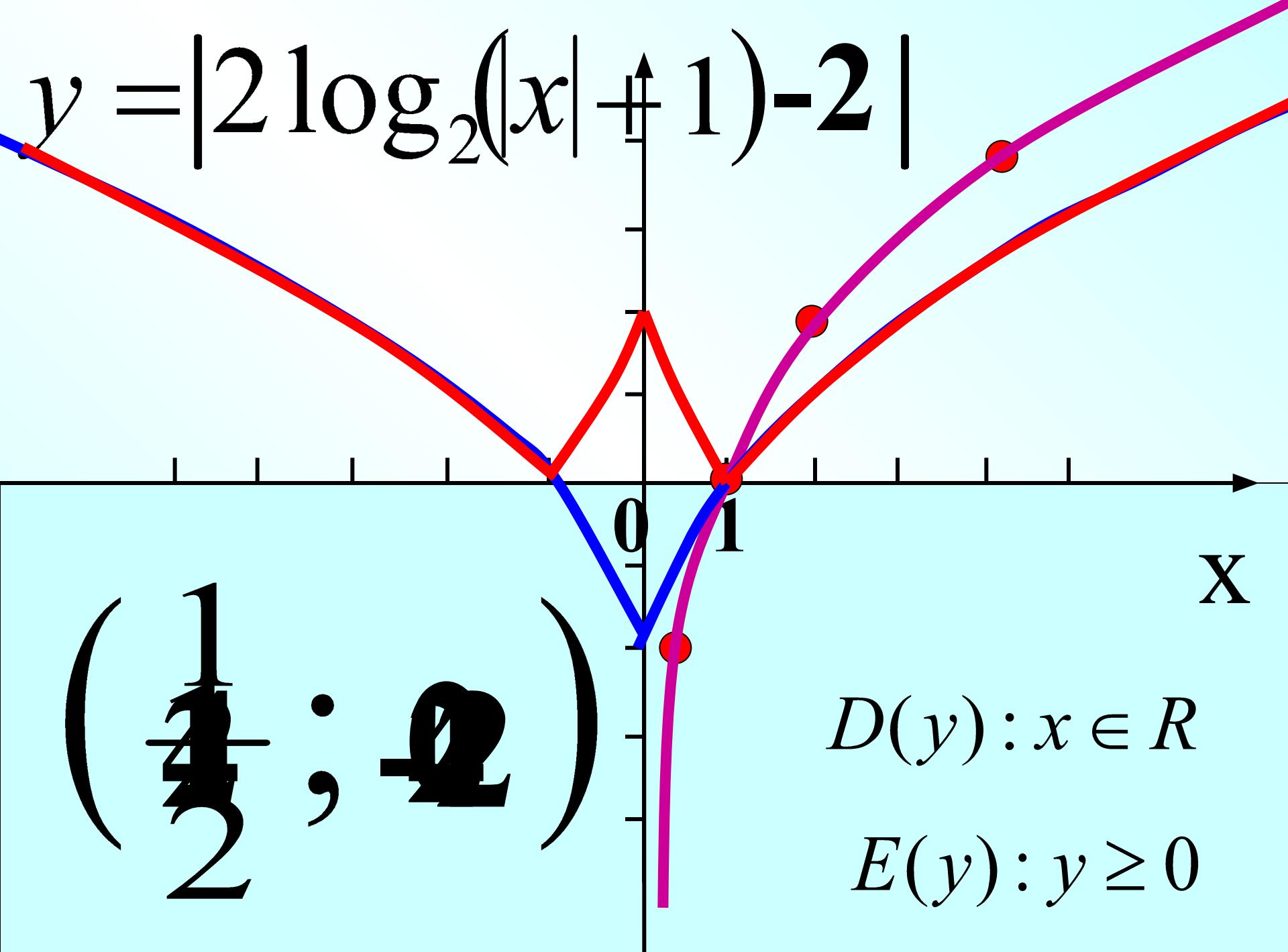
Симметрия относительно оси абсцисс.

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

$$D(y) : x \neq 0$$

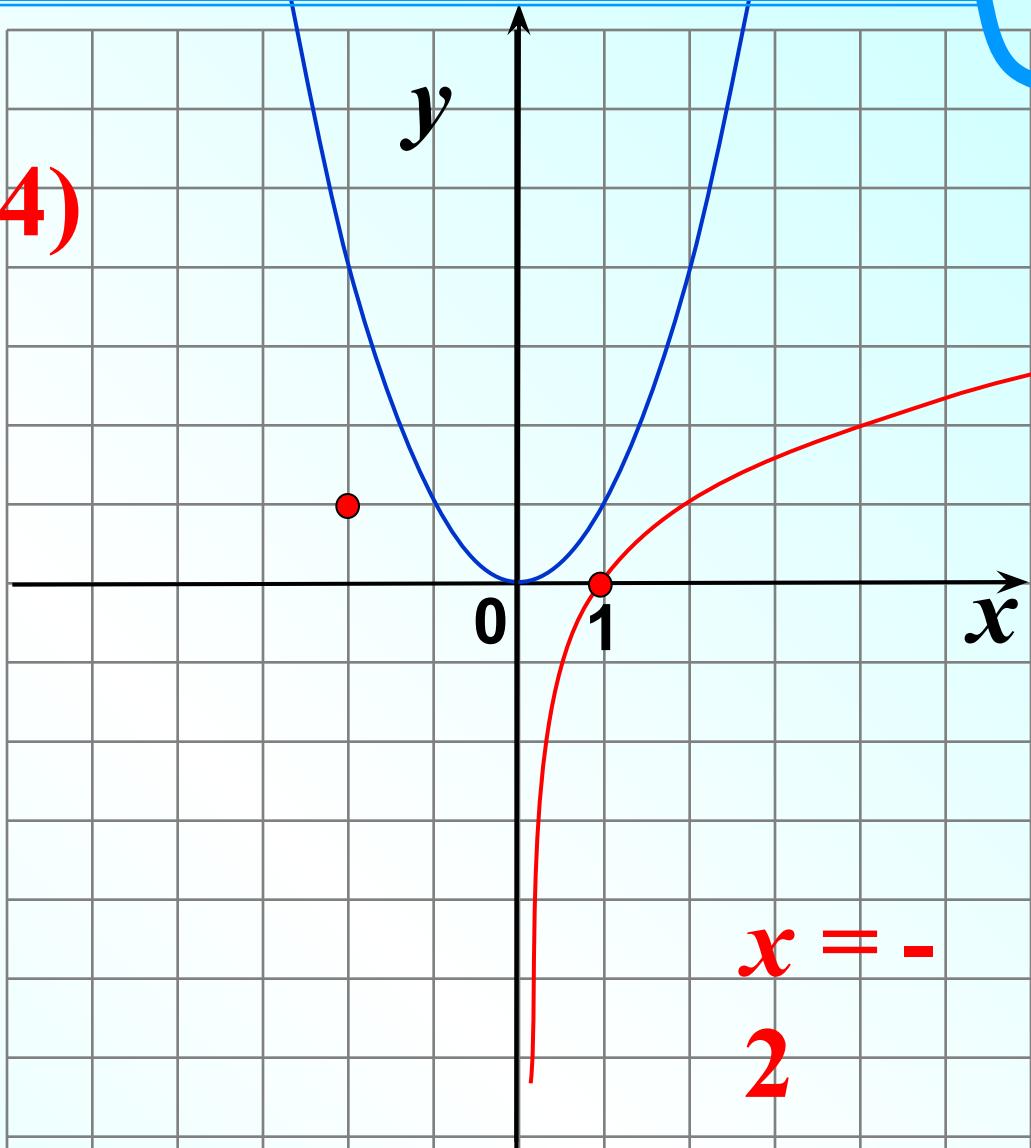
$$E(y) : y \geq -2$$





Решить уравнение

$$(x+3)^2 = \log_2(x+4)$$



$$x = -$$

$$2$$

$$x = -$$

$$3$$

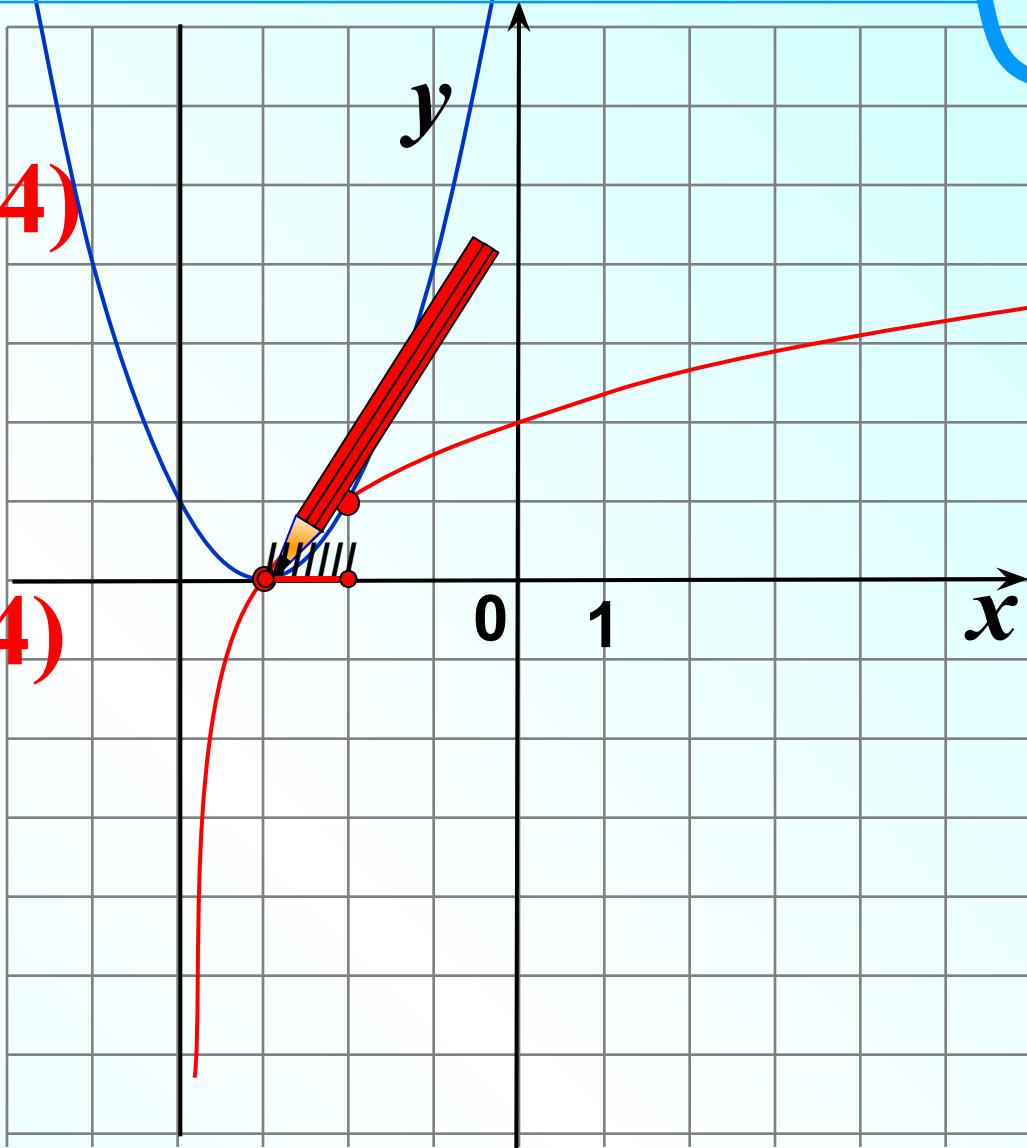
Решить неравенство

$$(x + 3)^2 < \log_2(x + 4)$$

$$x \in (-3; -2)$$

$$(x + 3)^2 \leq \log_2(x + 4)$$

$$x \in [-3; -2]$$



Решить неравенство

$$(x + 3)^2 > \log_2(x + 4)$$

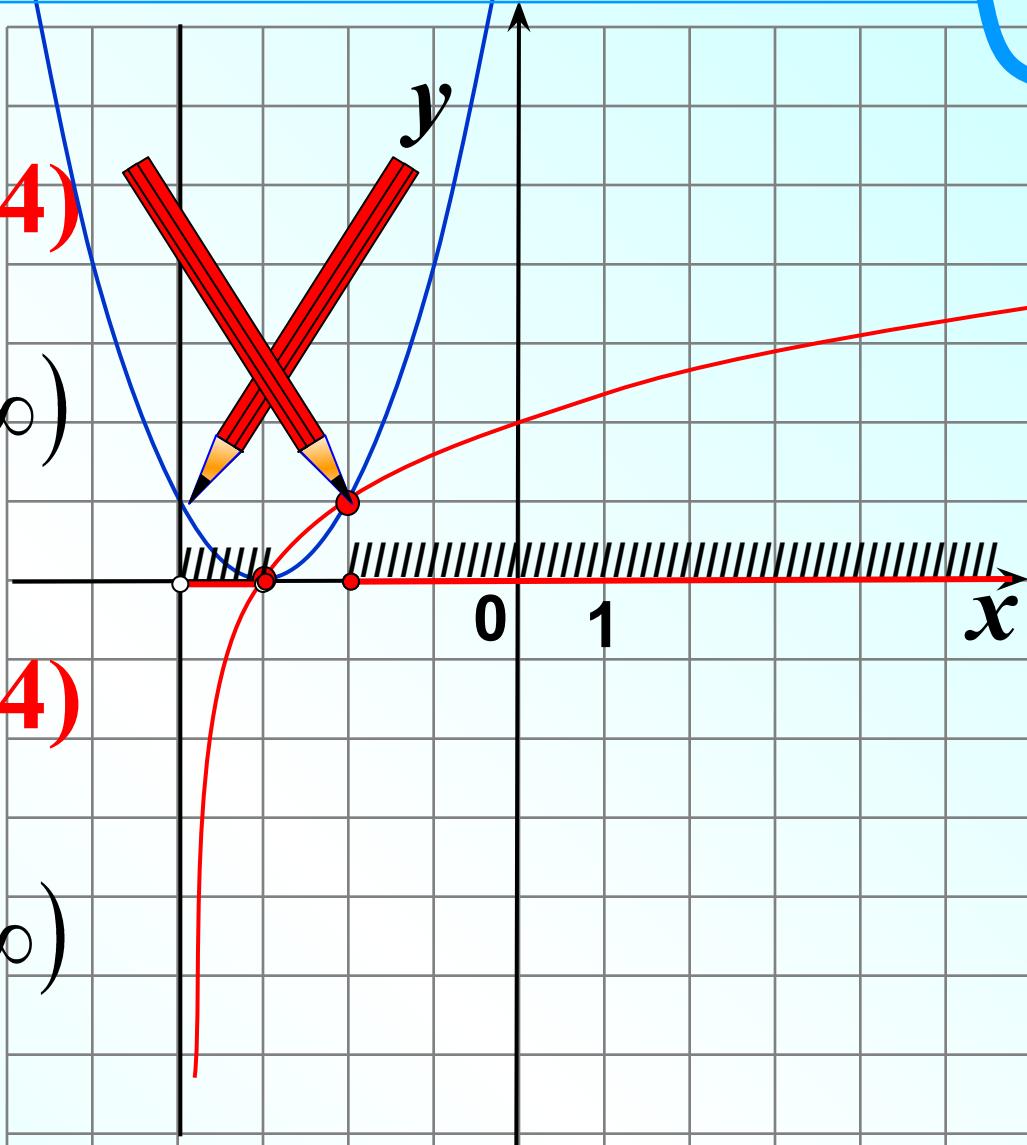
$$g$$

$$x \in (-4; -3) \cup (-2; +\infty)$$

$$(x + 3)^2 \geq \log_2(x + 4)$$

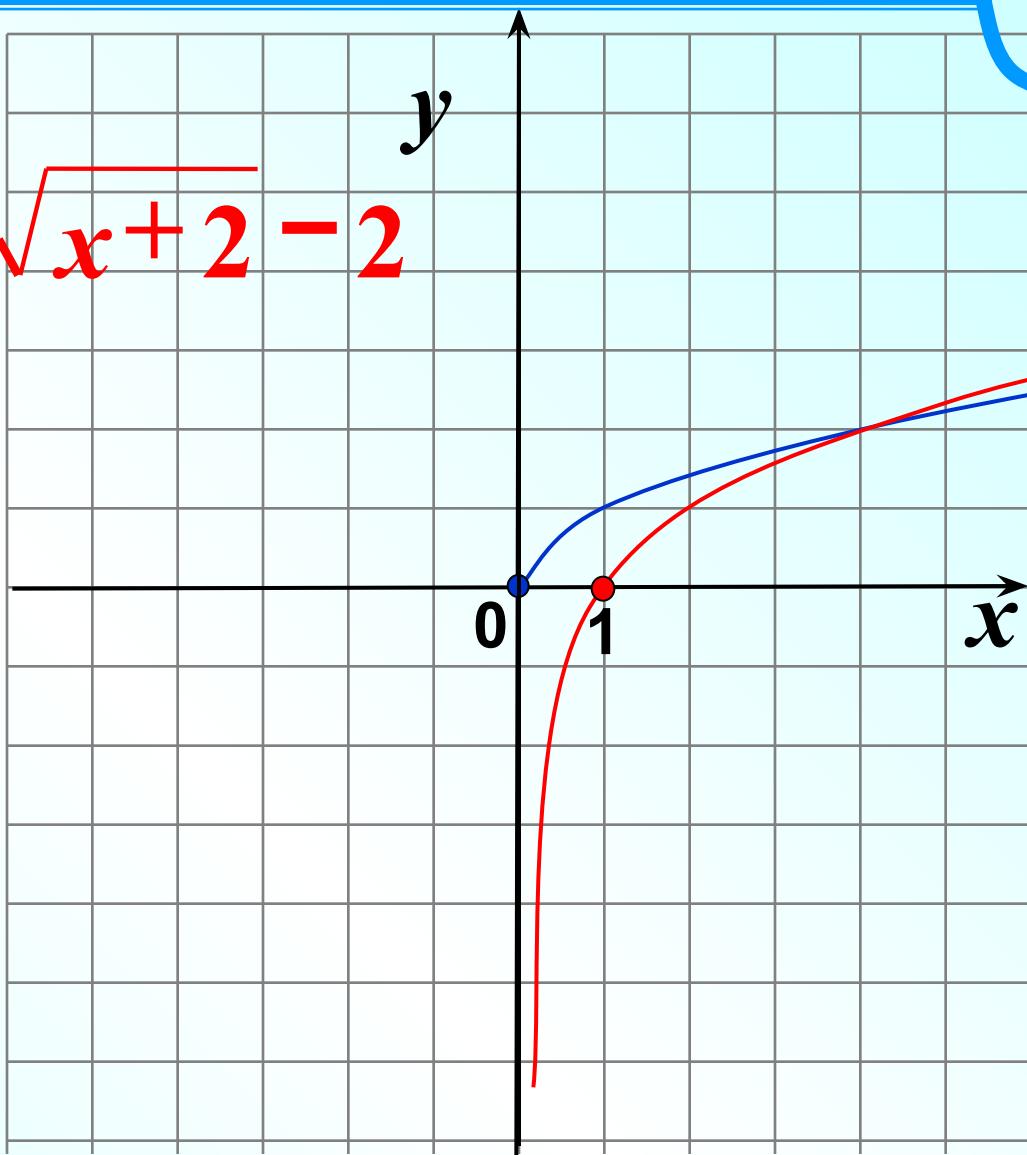
$$g$$

$$x \in (-4; -3] \cup [-2; +\infty)$$



Решить уравнение

$$\log_2(x + 2) - 1 = \sqrt{x + 2} - 2$$



$$x = -$$

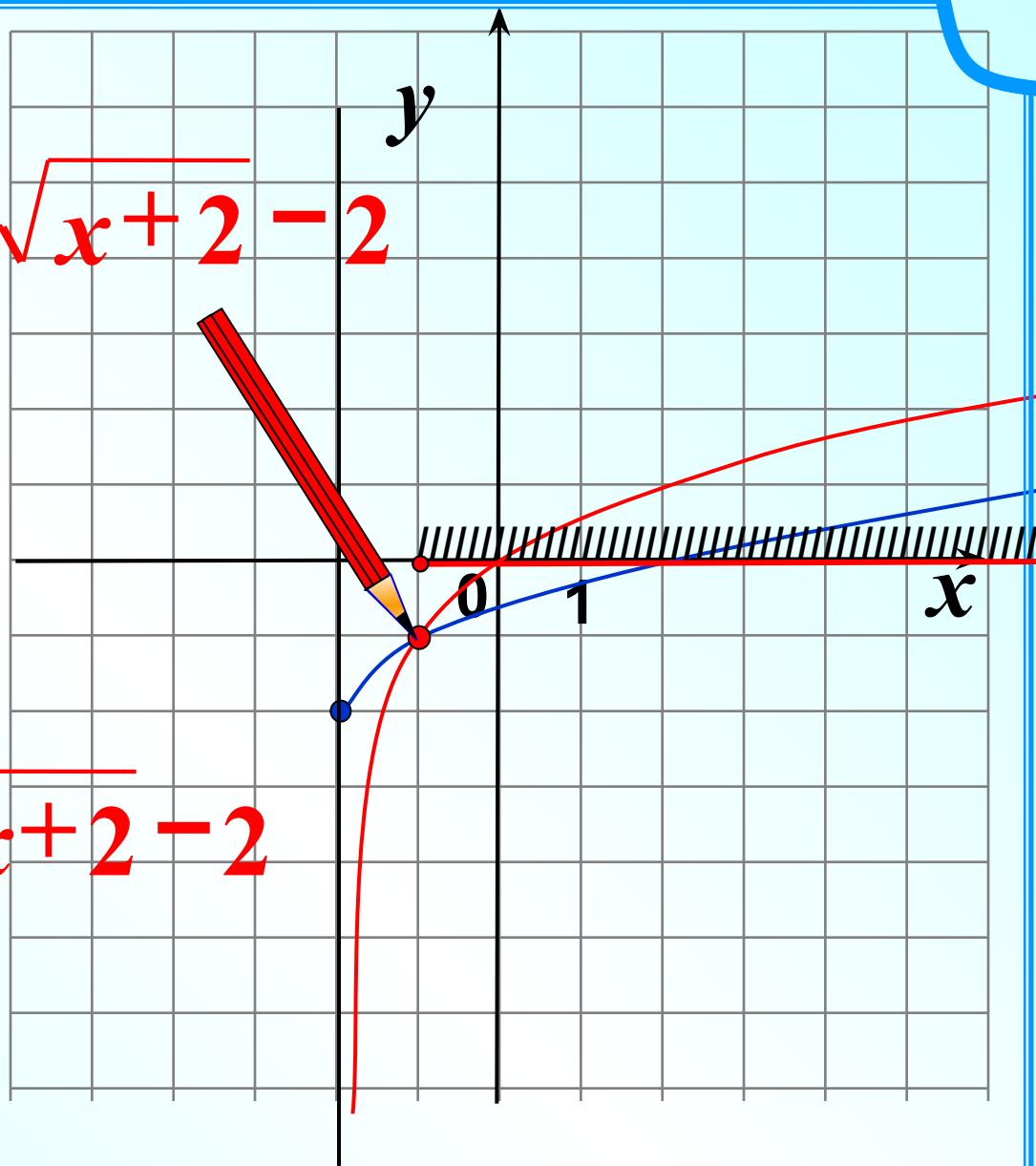
Решить неравенство

$$\log_2(x+2) - 1 > \sqrt{x+2} - 2$$

$$x \in (-1; +\infty)$$

$$\log_2(x+2) - 1 \geq \sqrt{x+2} - 2$$

$$x \in [-1; +\infty)$$



Решить неравенство

$$\log_2(x+2) - 1 < \sqrt{x+2} - 2$$

$$x \in (-2; -1)$$

$$\log_2(x+2) - 1 \leq \sqrt{x+2} - 2$$

$$x \in (-2; -1]$$

