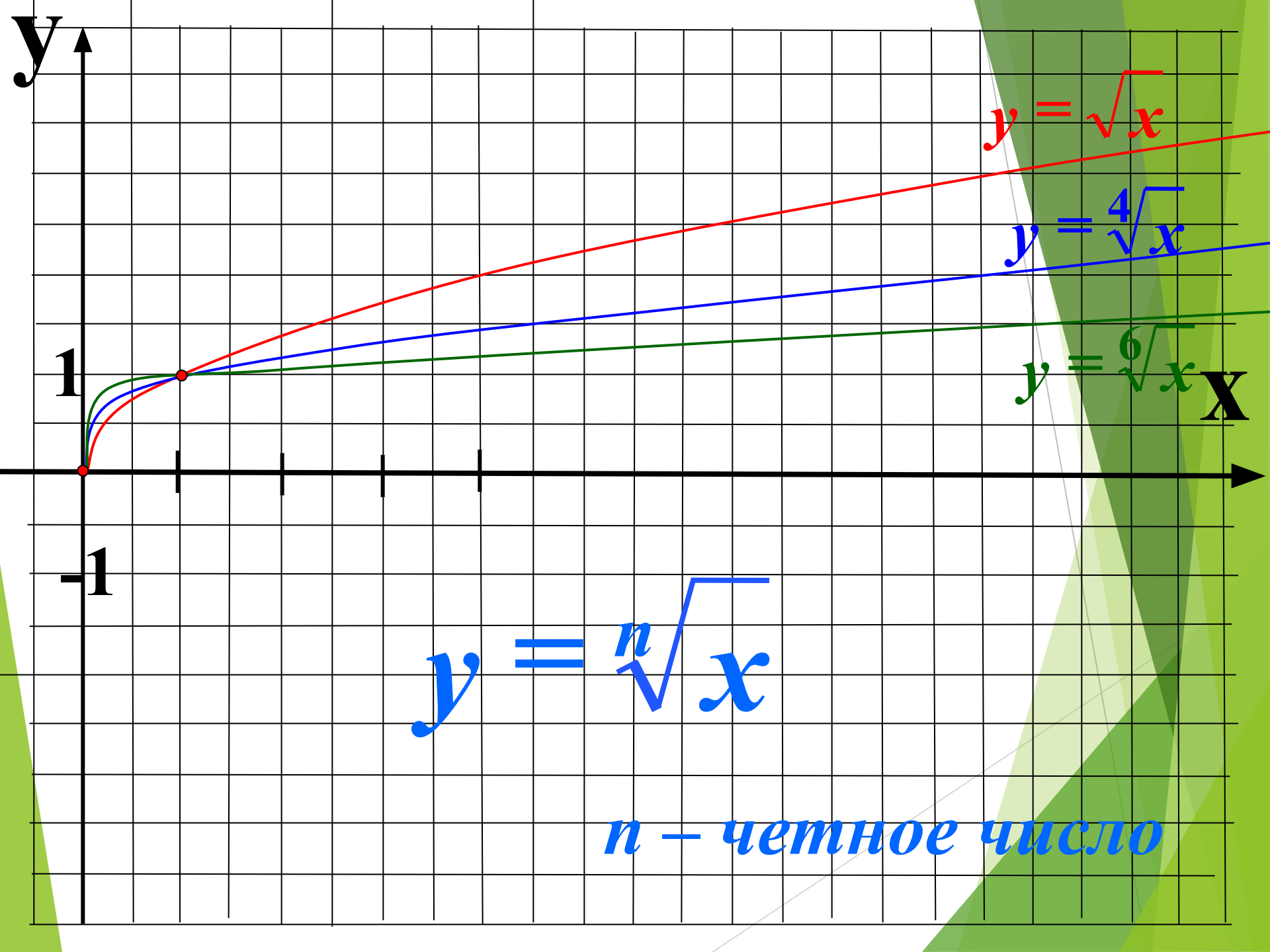
Функции

$$y = \sqrt[n]{x}$$

их свойства и график



$$y = \sqrt[n]{x}$$

n – четное число

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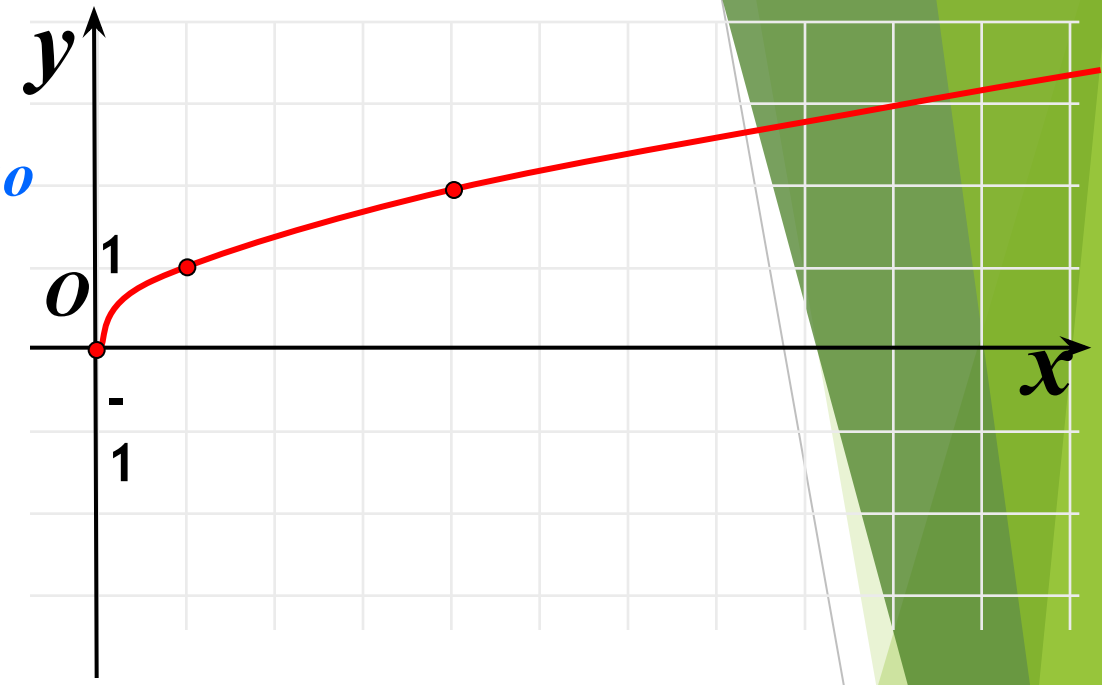


$$D(y): x \geq 0$$

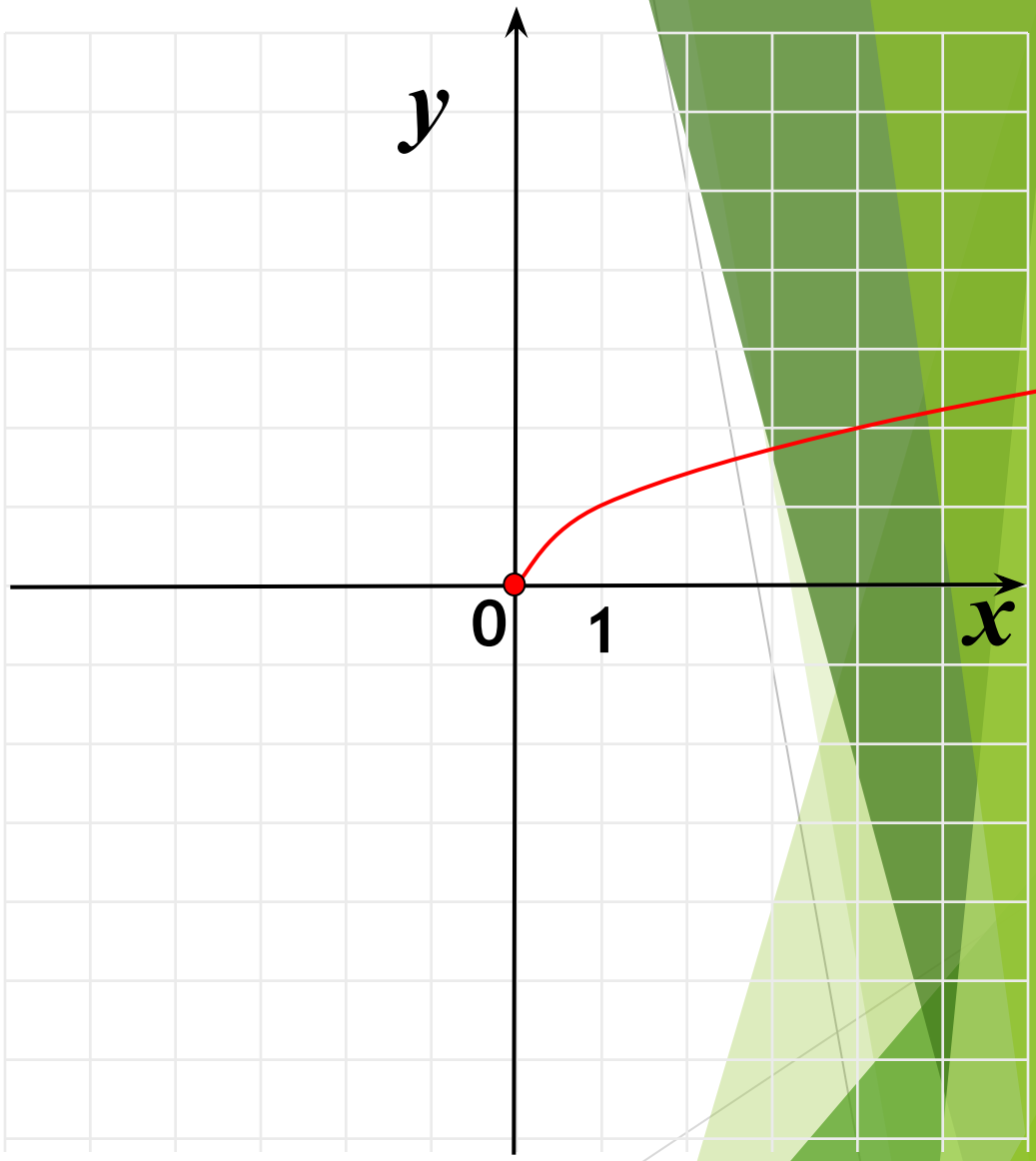
$$E(y): y \geq 0$$

$$y = 0 \quad x = 0$$

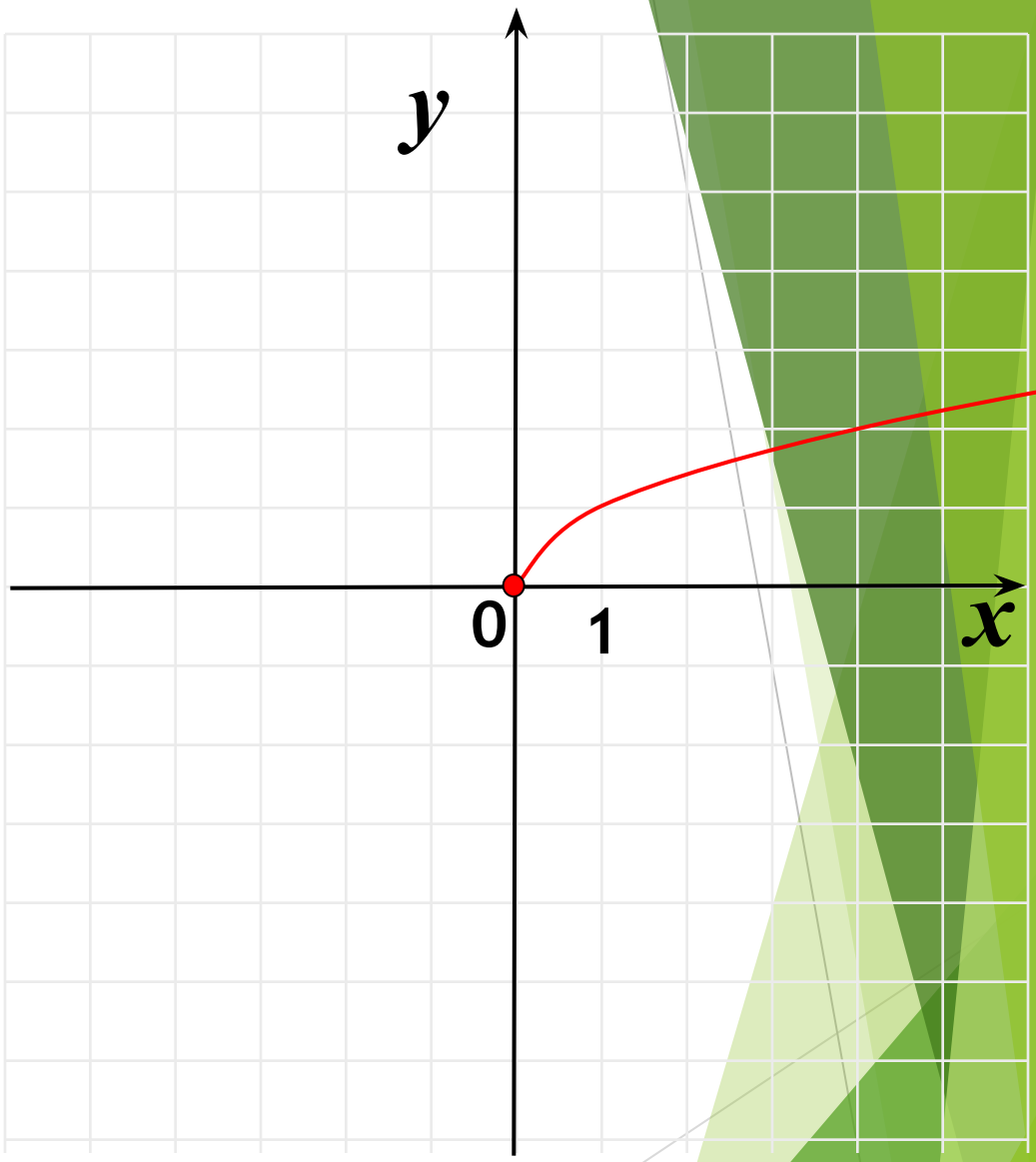
$$y > 0 \quad x > 0$$

Функция возрастает $x \in [0; +\infty)$

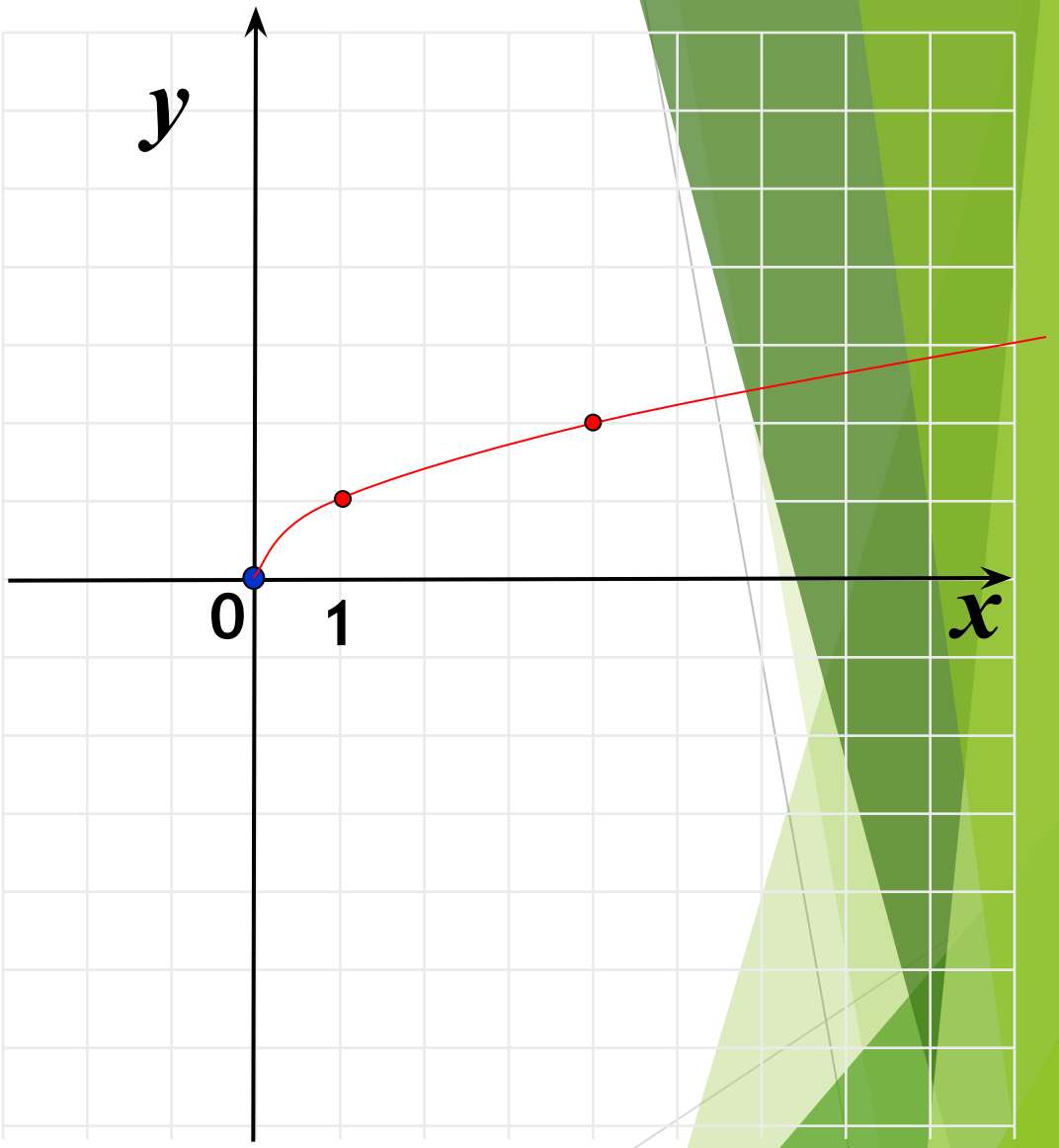
$$y = \sqrt{x+4} - 2$$



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

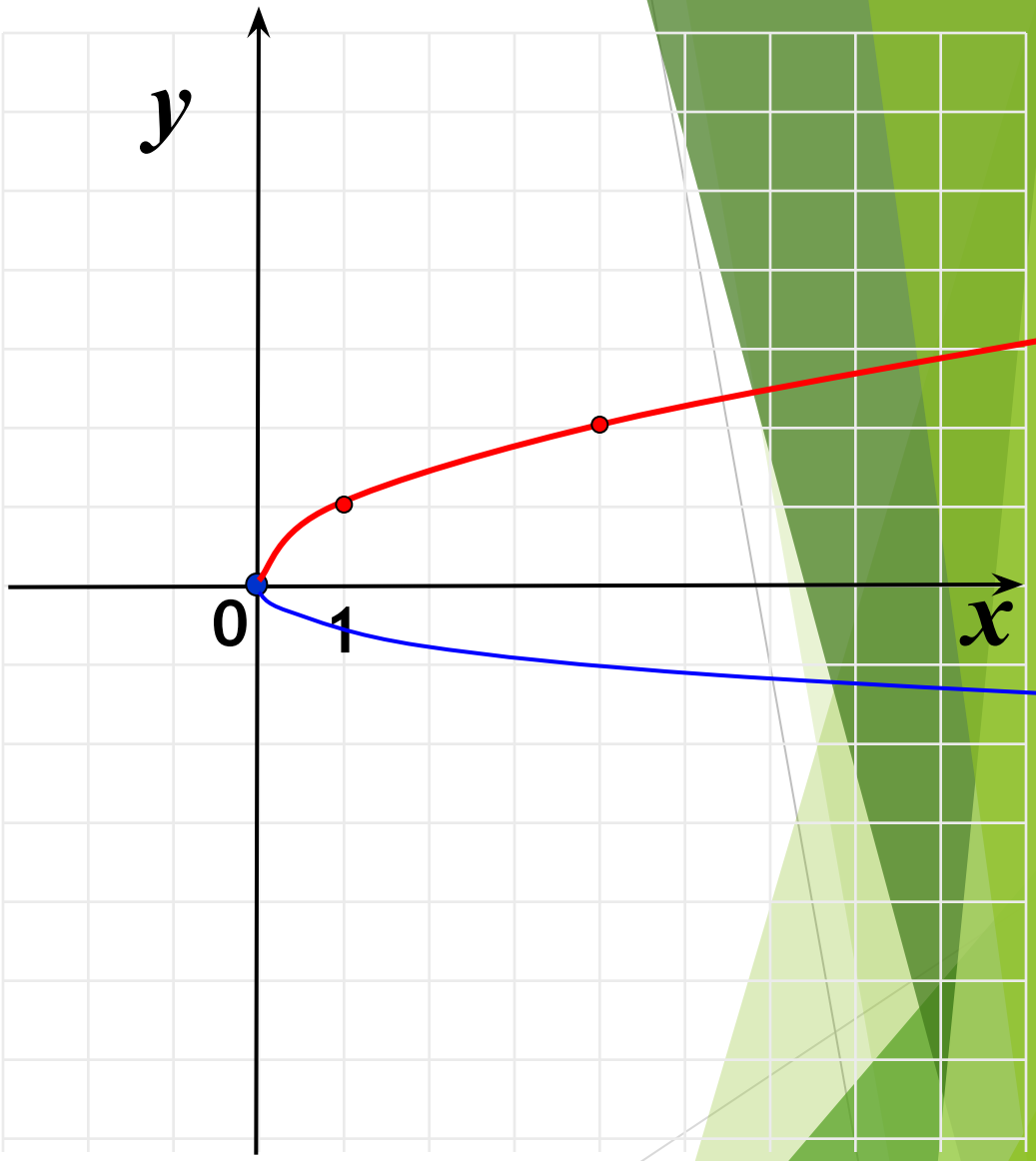


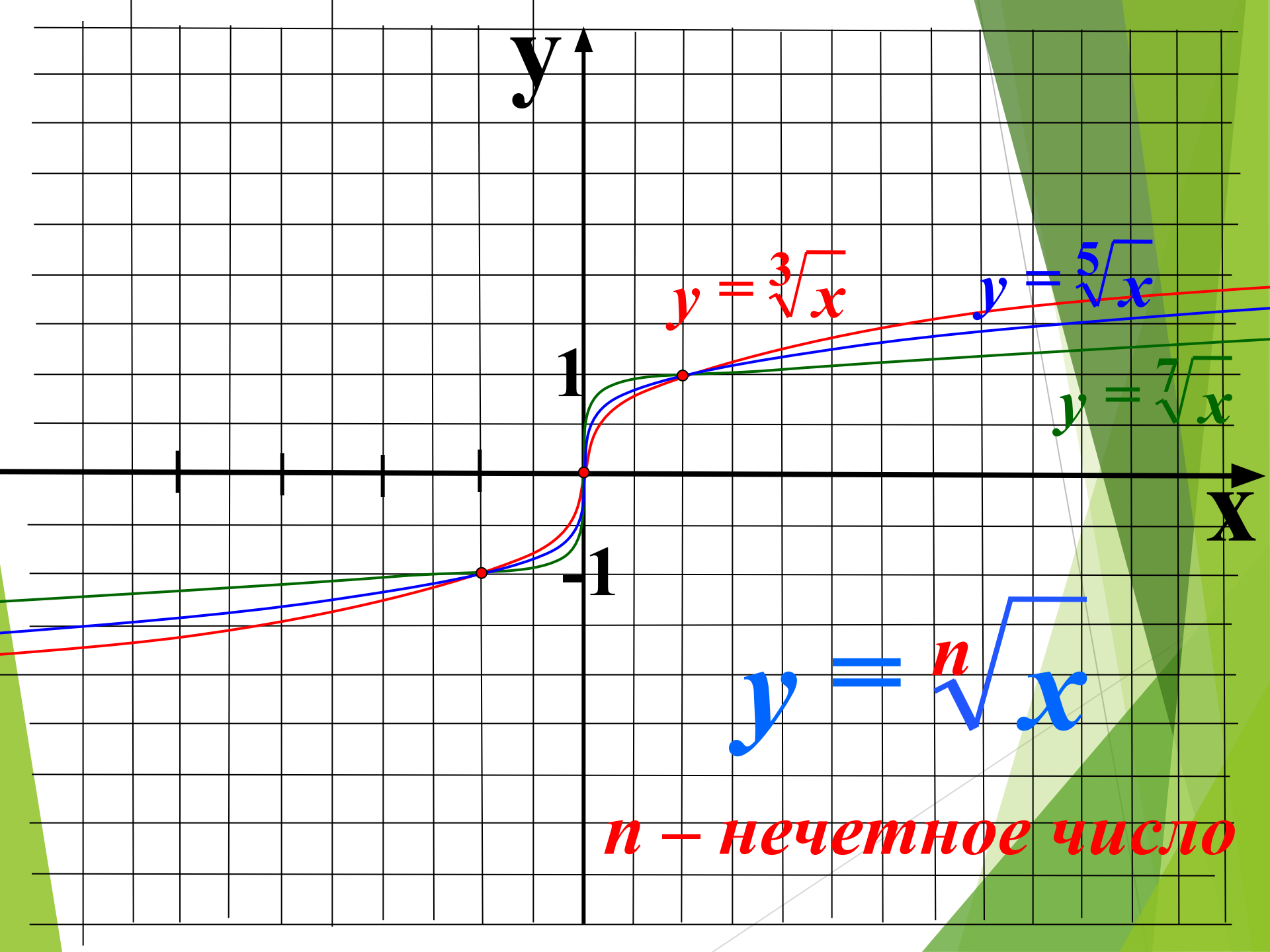
$$y = 2\sqrt{x}$$



$$y = \frac{1}{2}\sqrt{x}$$

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





$$y = \sqrt[n]{x}$$

n – нечетное число

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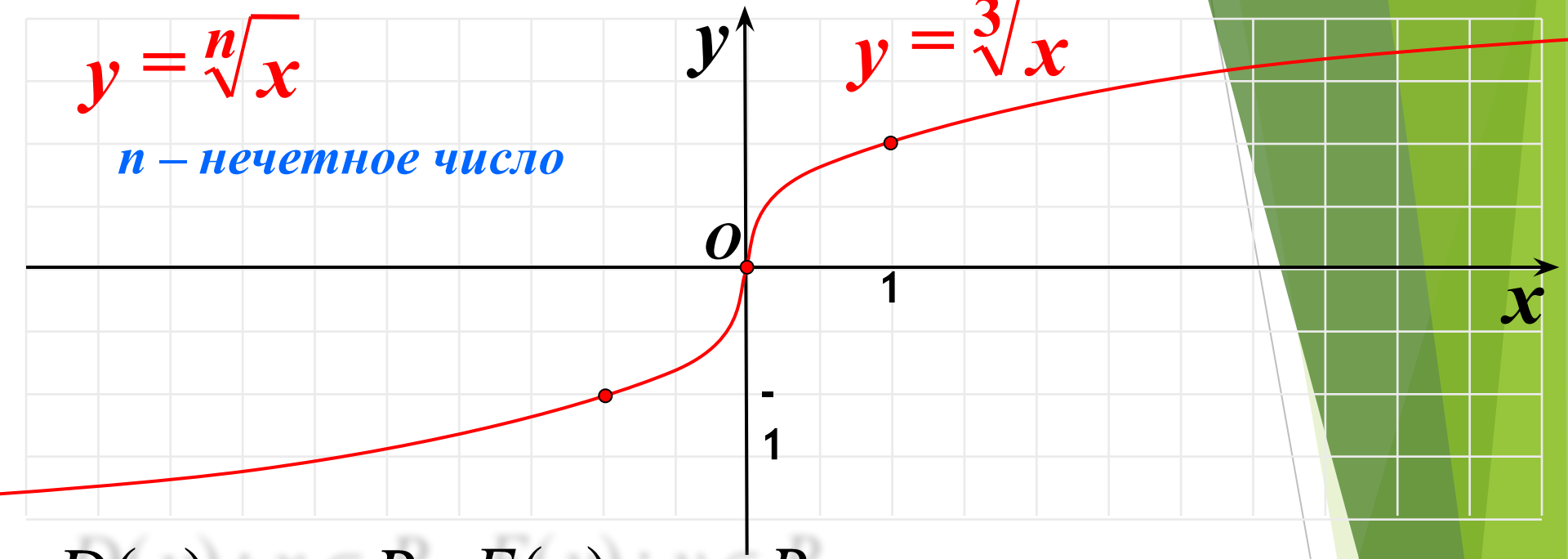
n – нечетное число



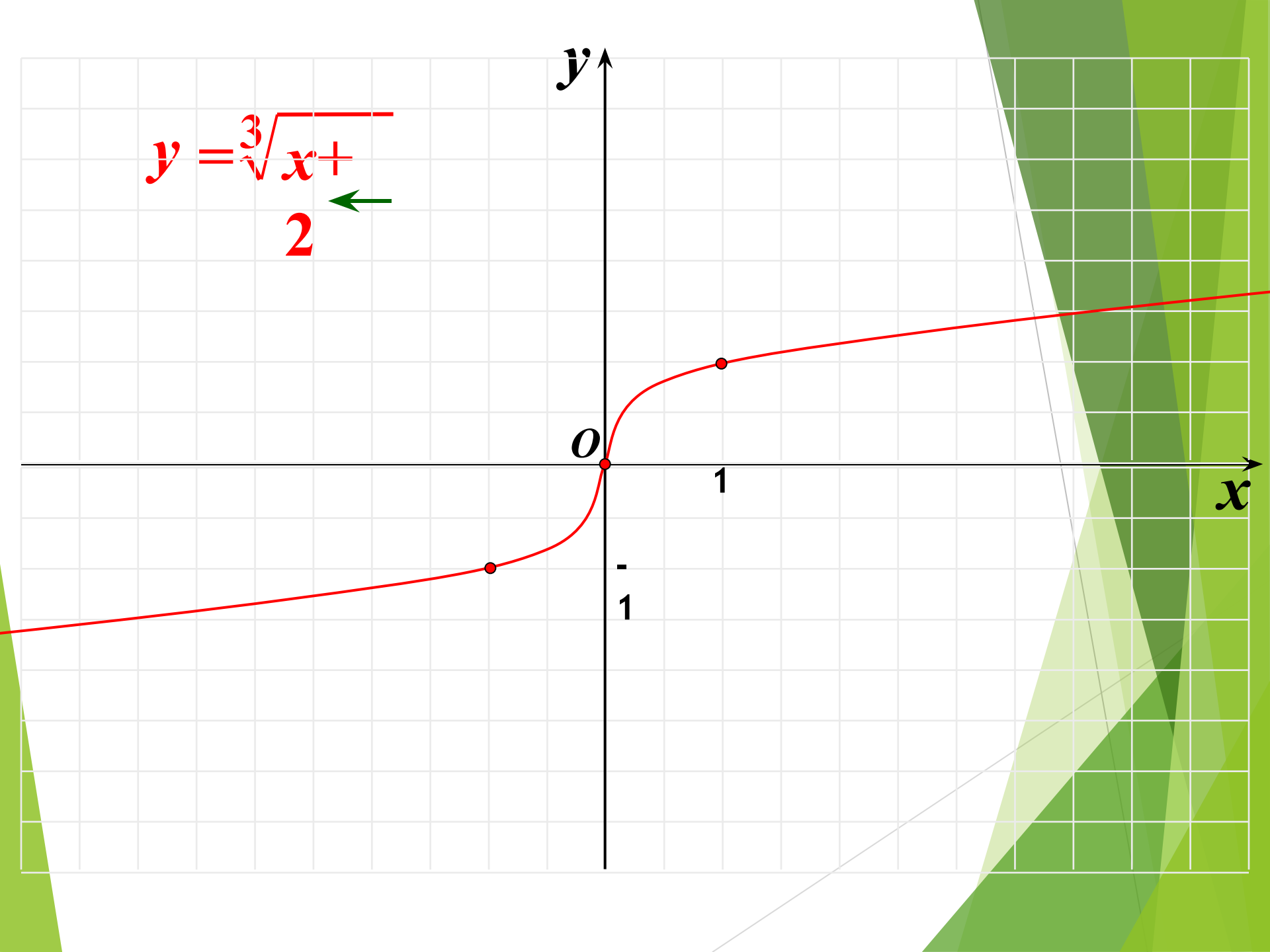
$D(y): x \in R \quad E(y): y \in R$

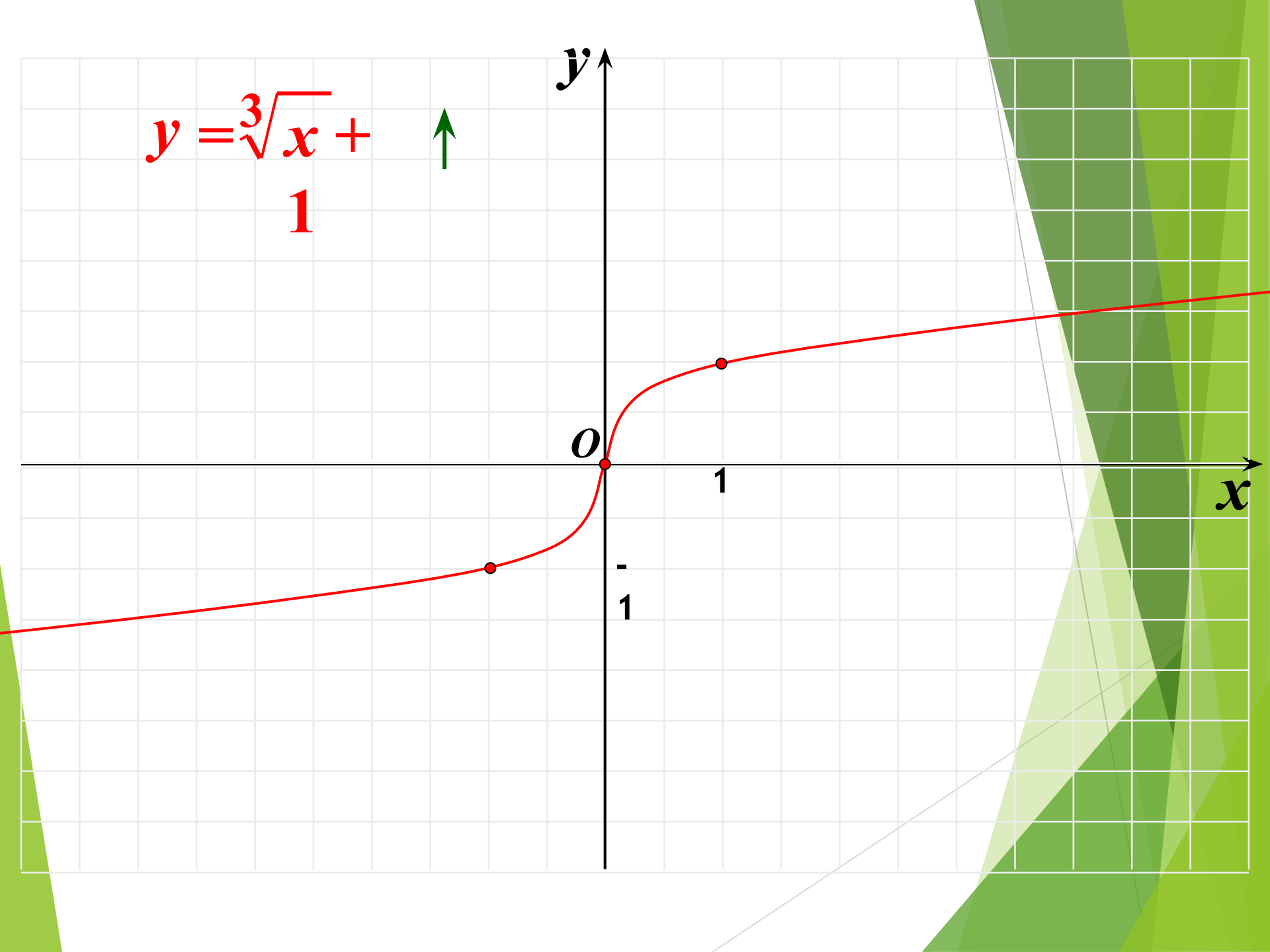
$y = 0 \quad x = 0$

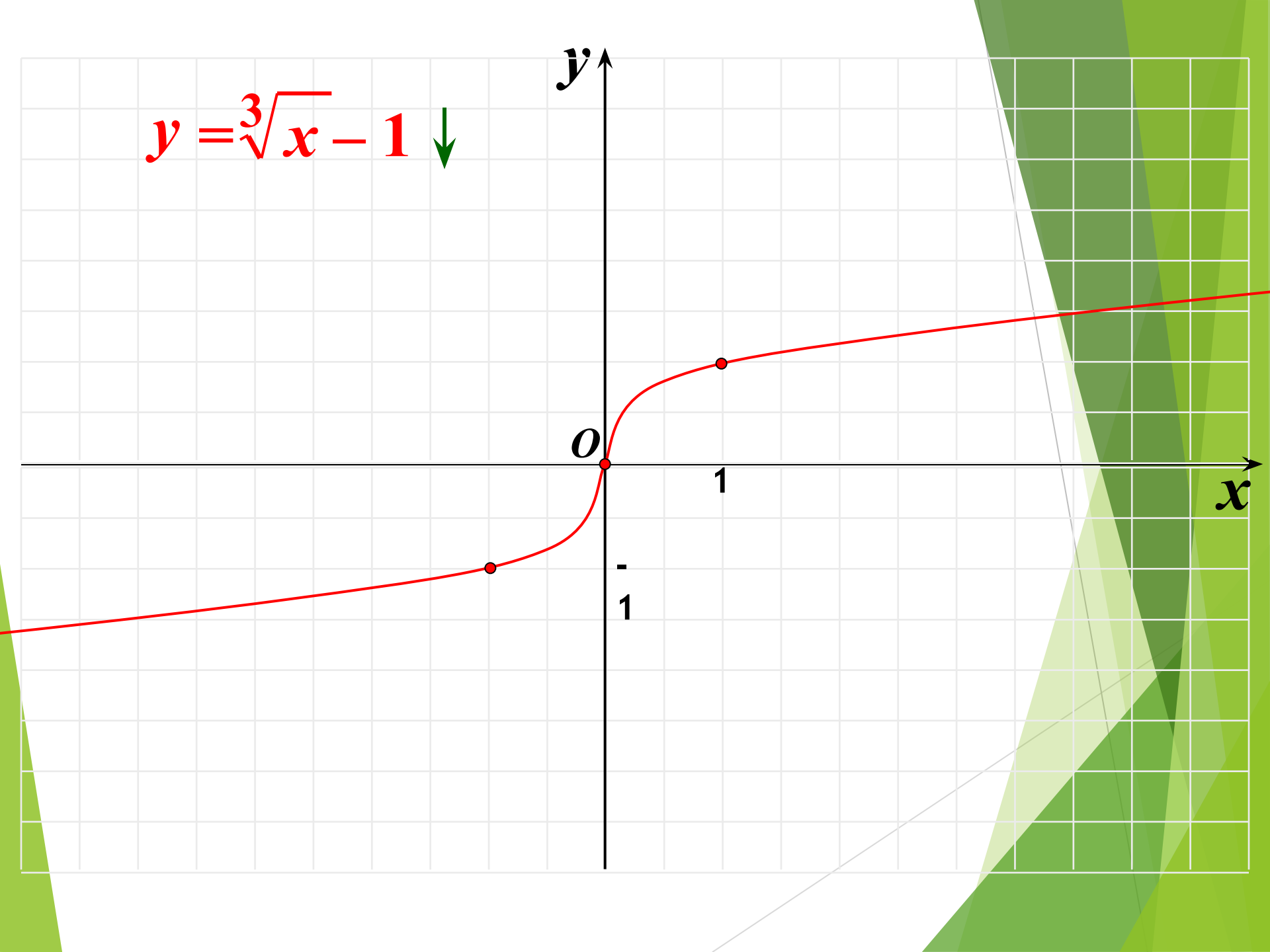
$y > 0 \quad x > 0$

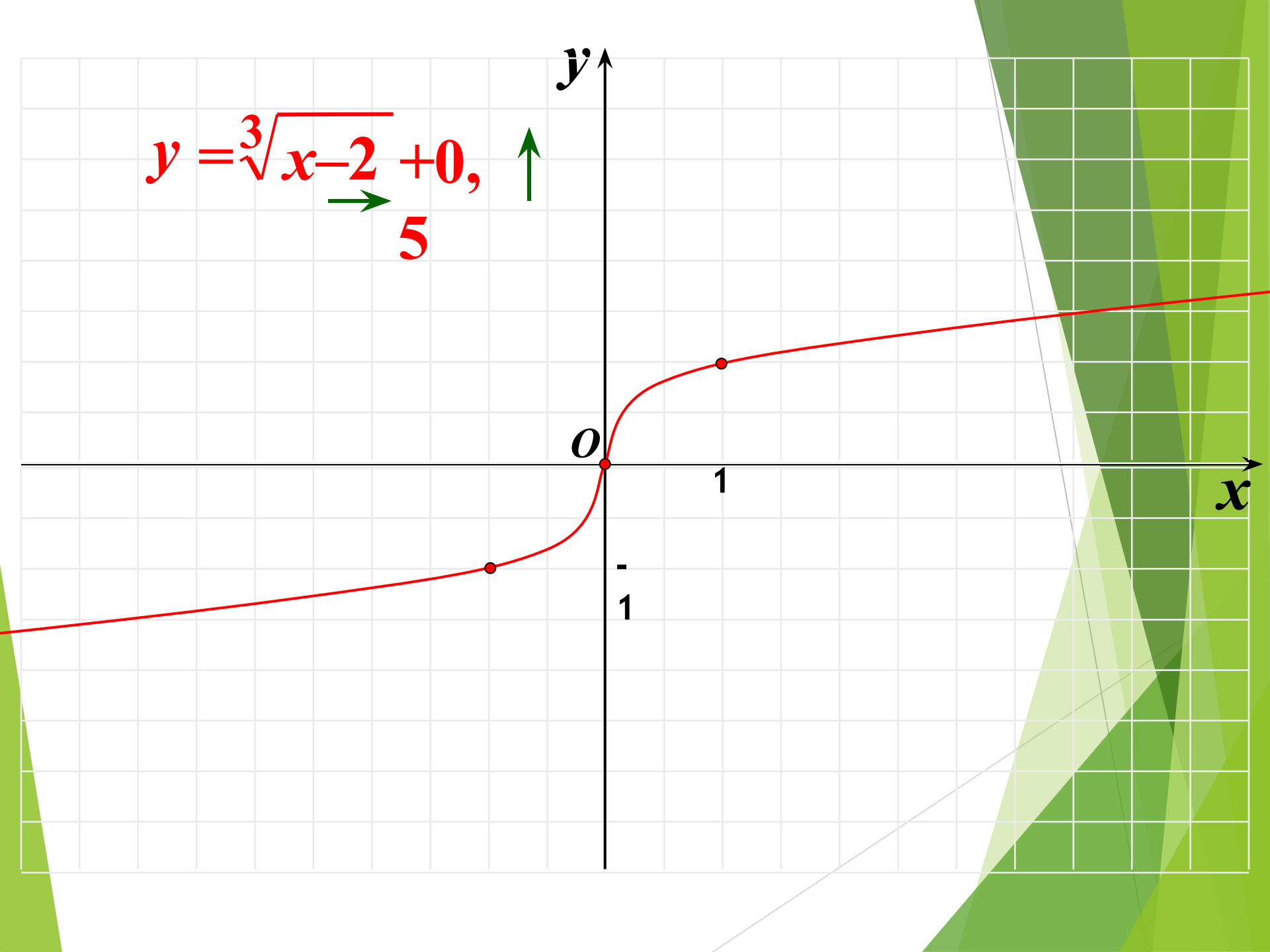
$y < 0 \quad x < 0$

Функция возрастает $x \in (-\infty; +\infty)$

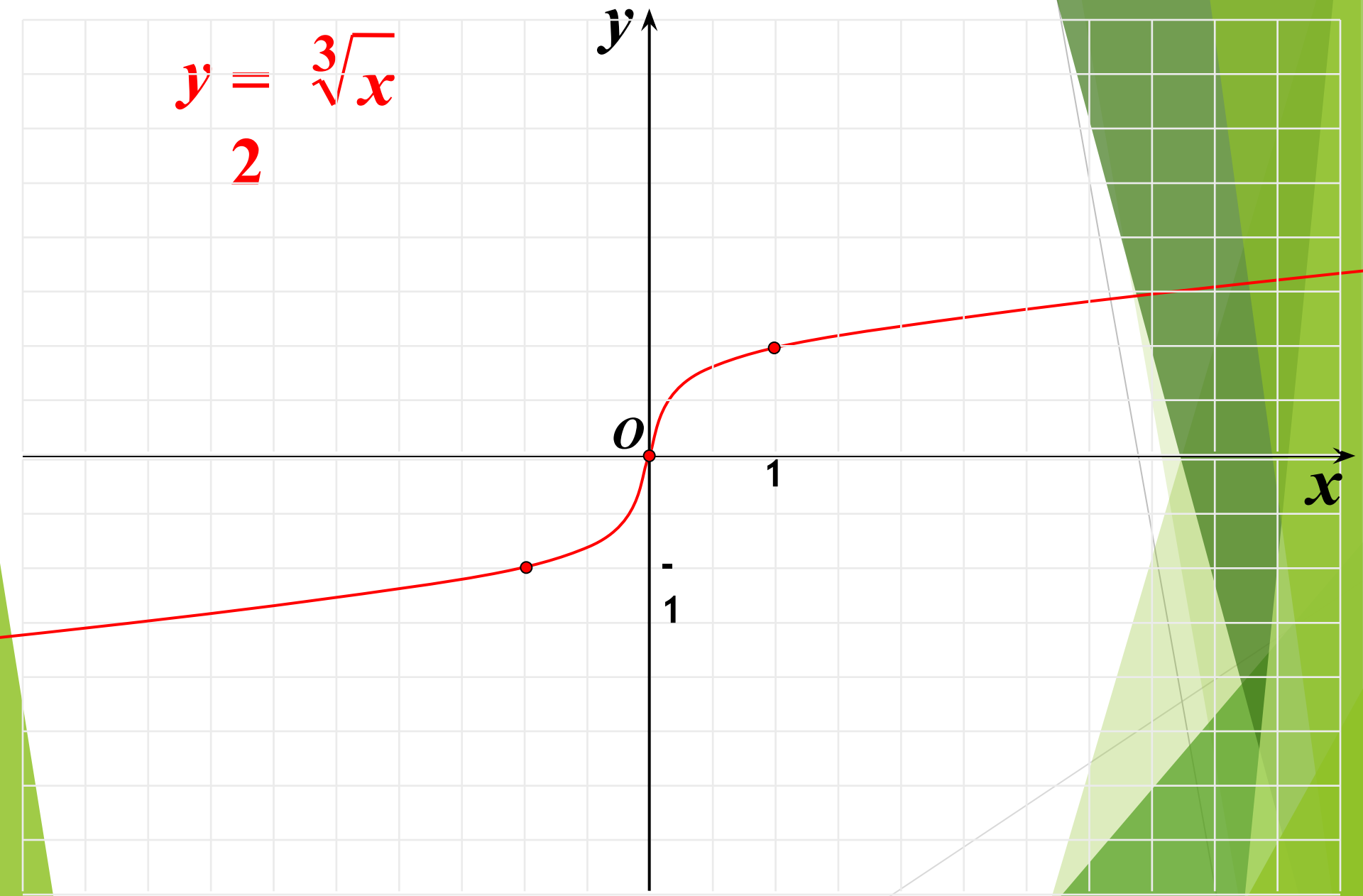

$y = \sqrt[3]{x+2}$
y
x
o
1
-1

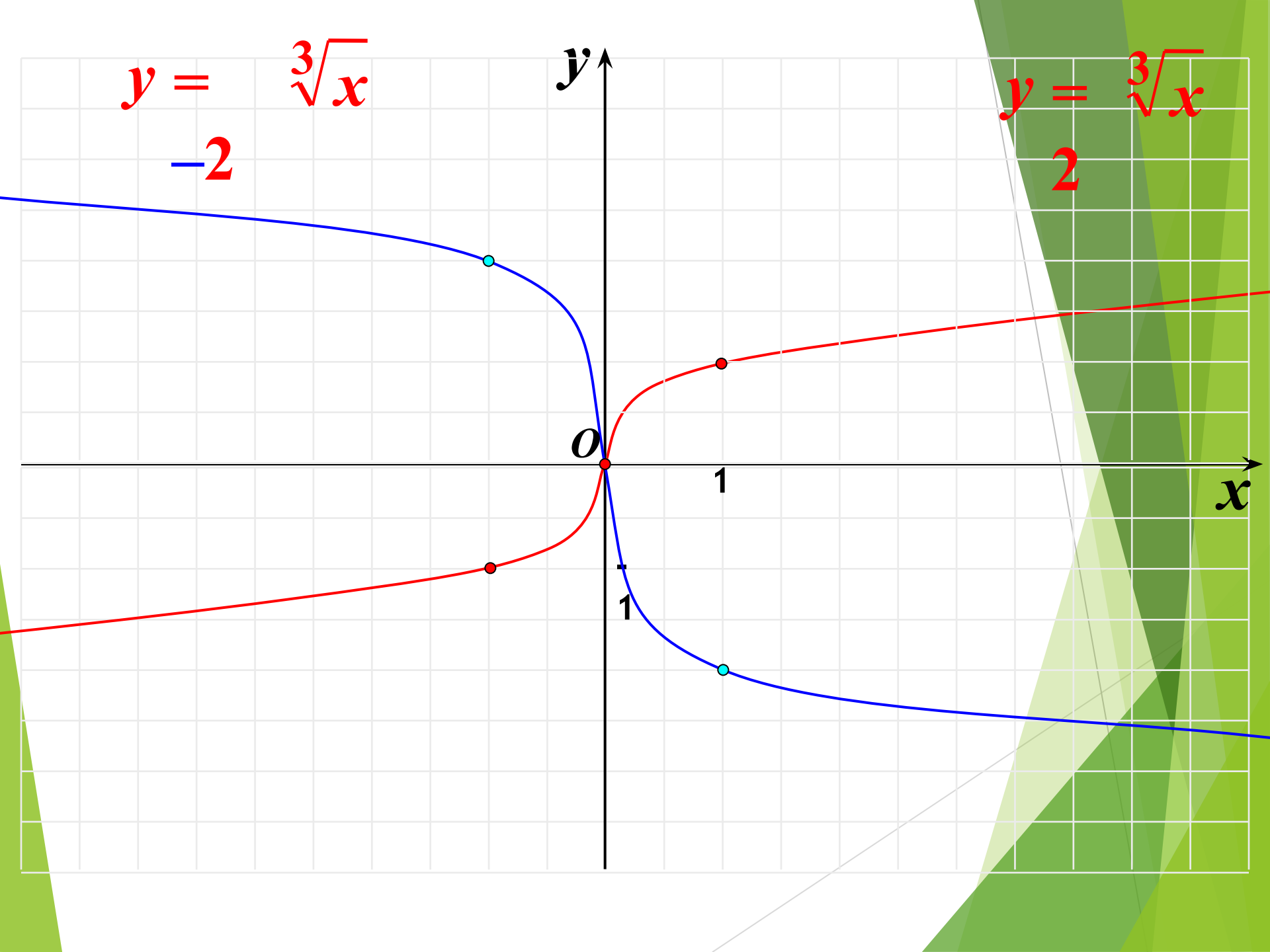

$y = \sqrt[3]{x} + 1$
y
O
1
x
-1


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

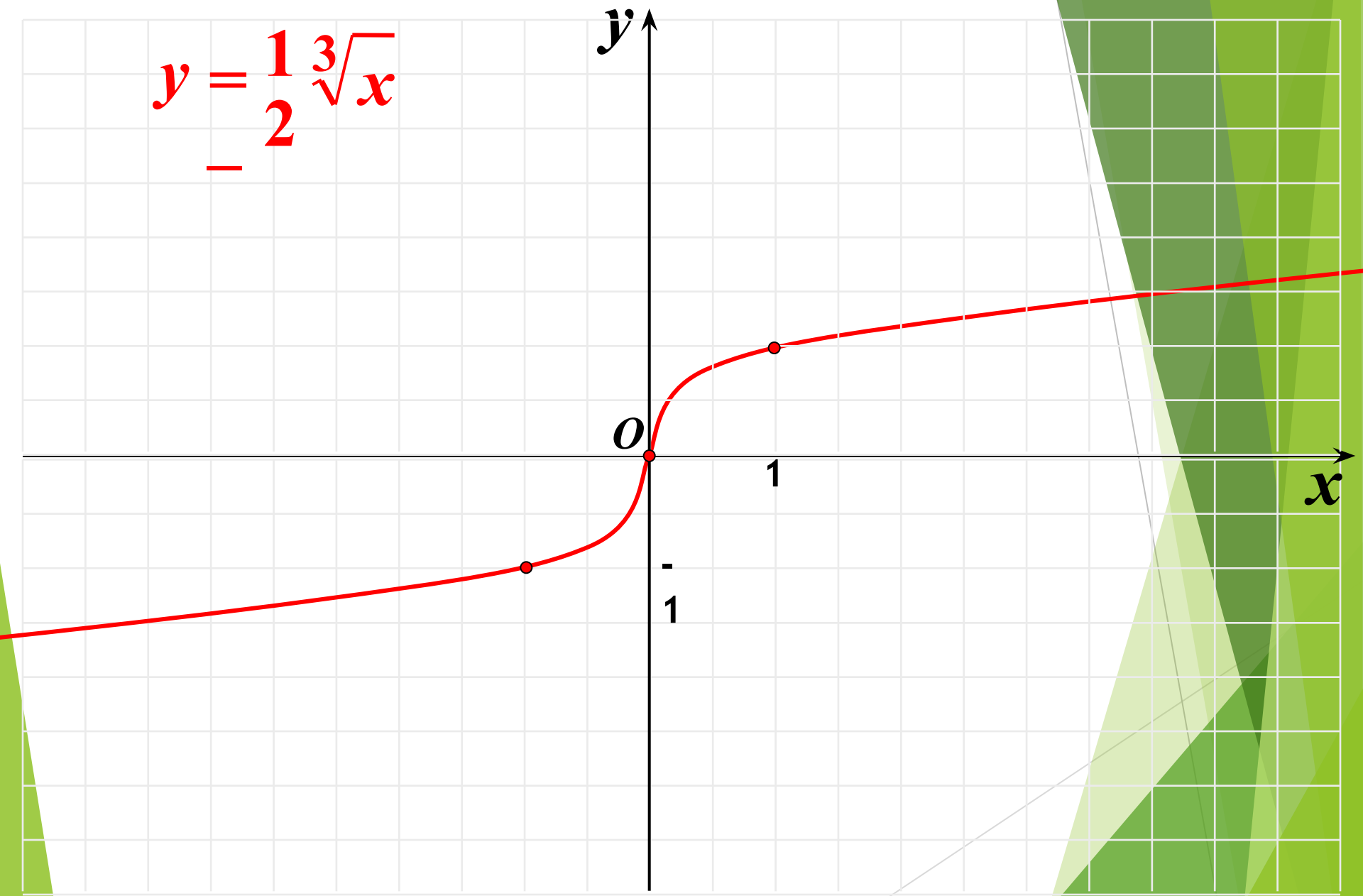

y
$y = \sqrt[3]{x-2} + 0,$
5
o
1
x
-
1

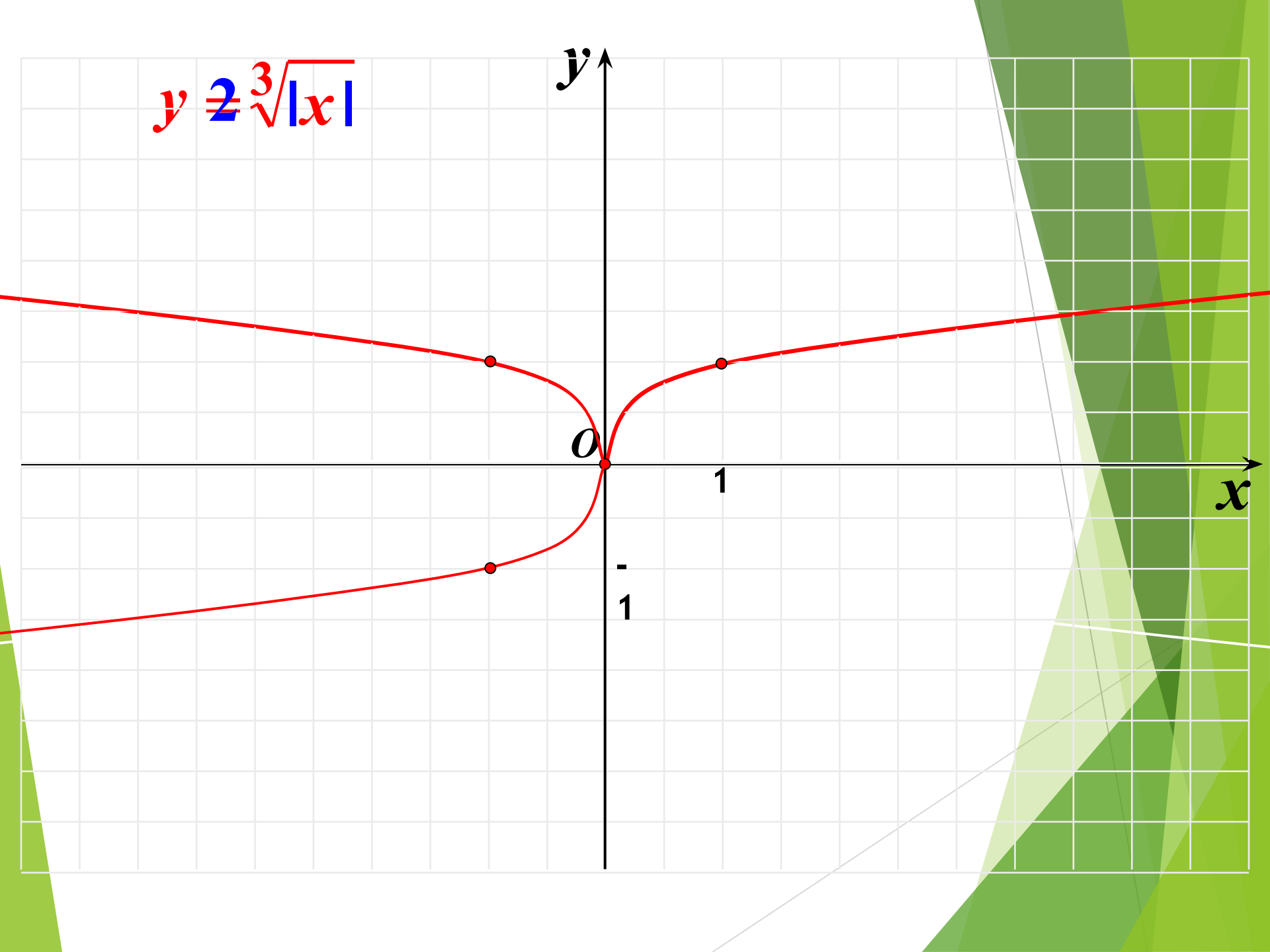
$$y = \frac{\sqrt[3]{x}}{2}$$




$y = \sqrt[3]{x}$
-2
y
$y = \sqrt[3]{x}$
2
O
1
x
-1

$$y = \frac{1}{2}\sqrt[3]{x}$$




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