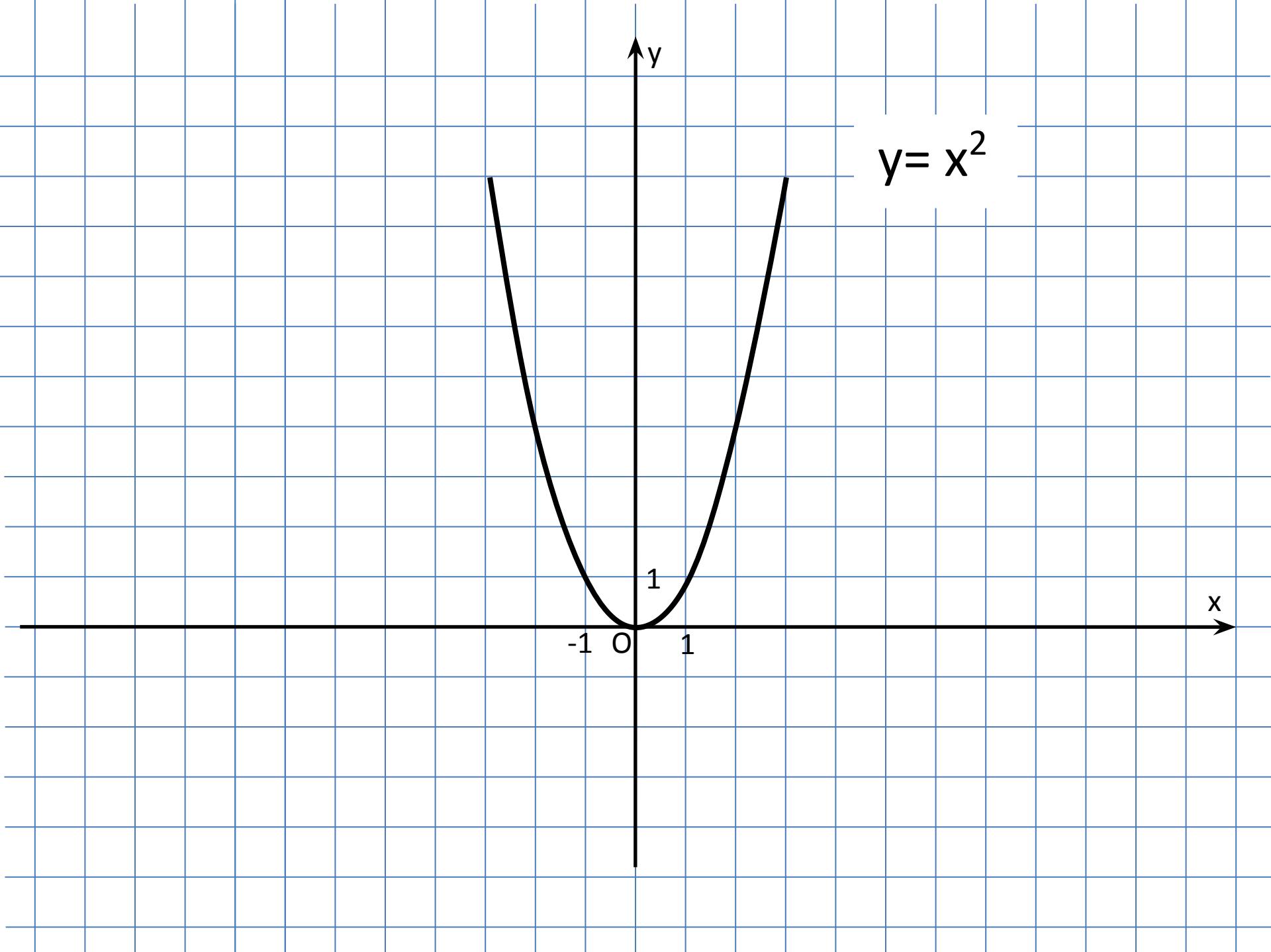


$$y = x^2$$

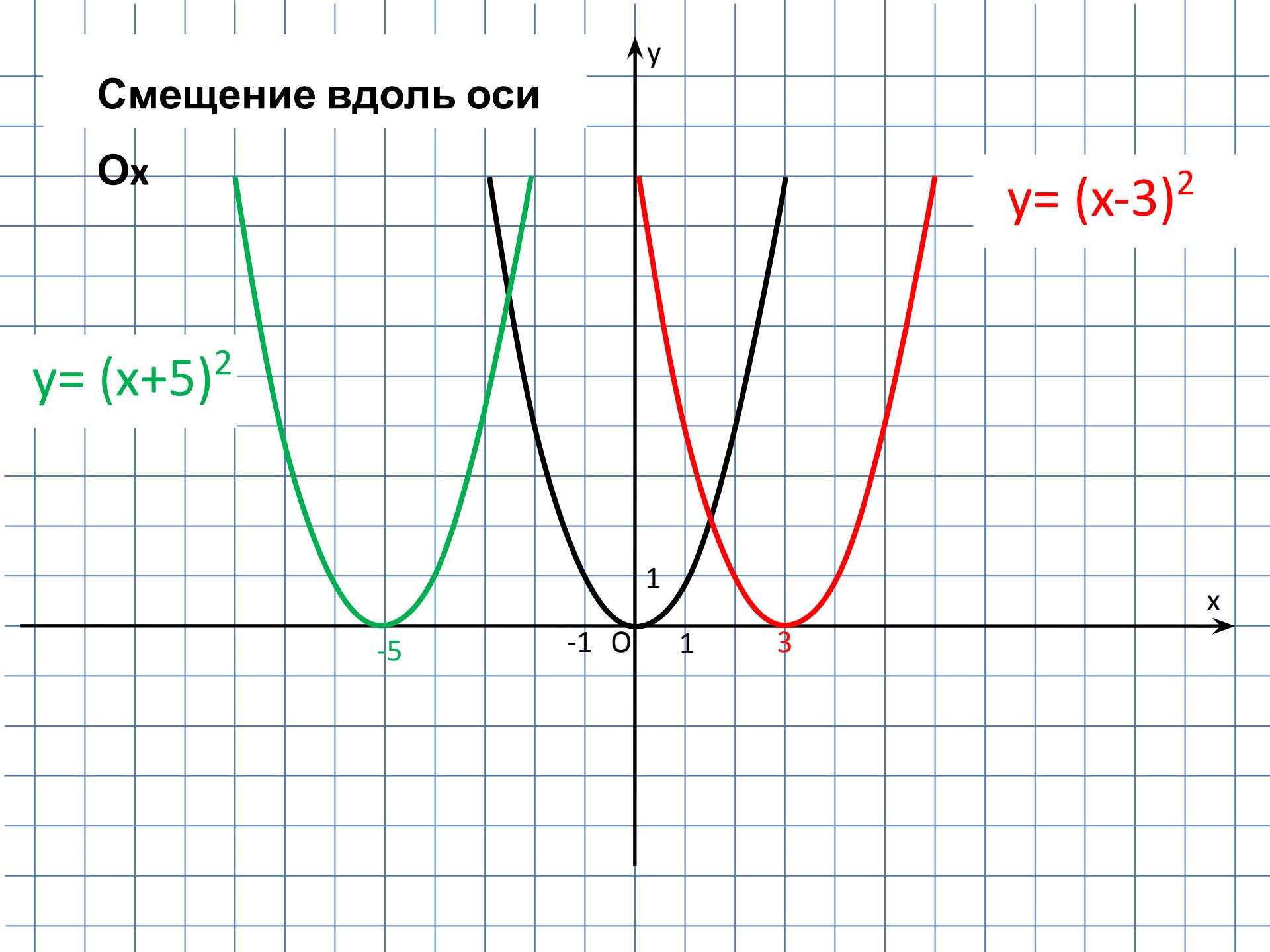


Смещение вдоль оси

Ox

$$y = (x+5)^2$$

$$y = (x-3)^2$$



Смещение вдоль оси

Oy

$$y = x^2 + 3$$

$$y = x^2 - 4$$

y

x

O

1

-1

-4

$$y = (x-4)^2 + 3$$

y

x

-5

0

1

4

8

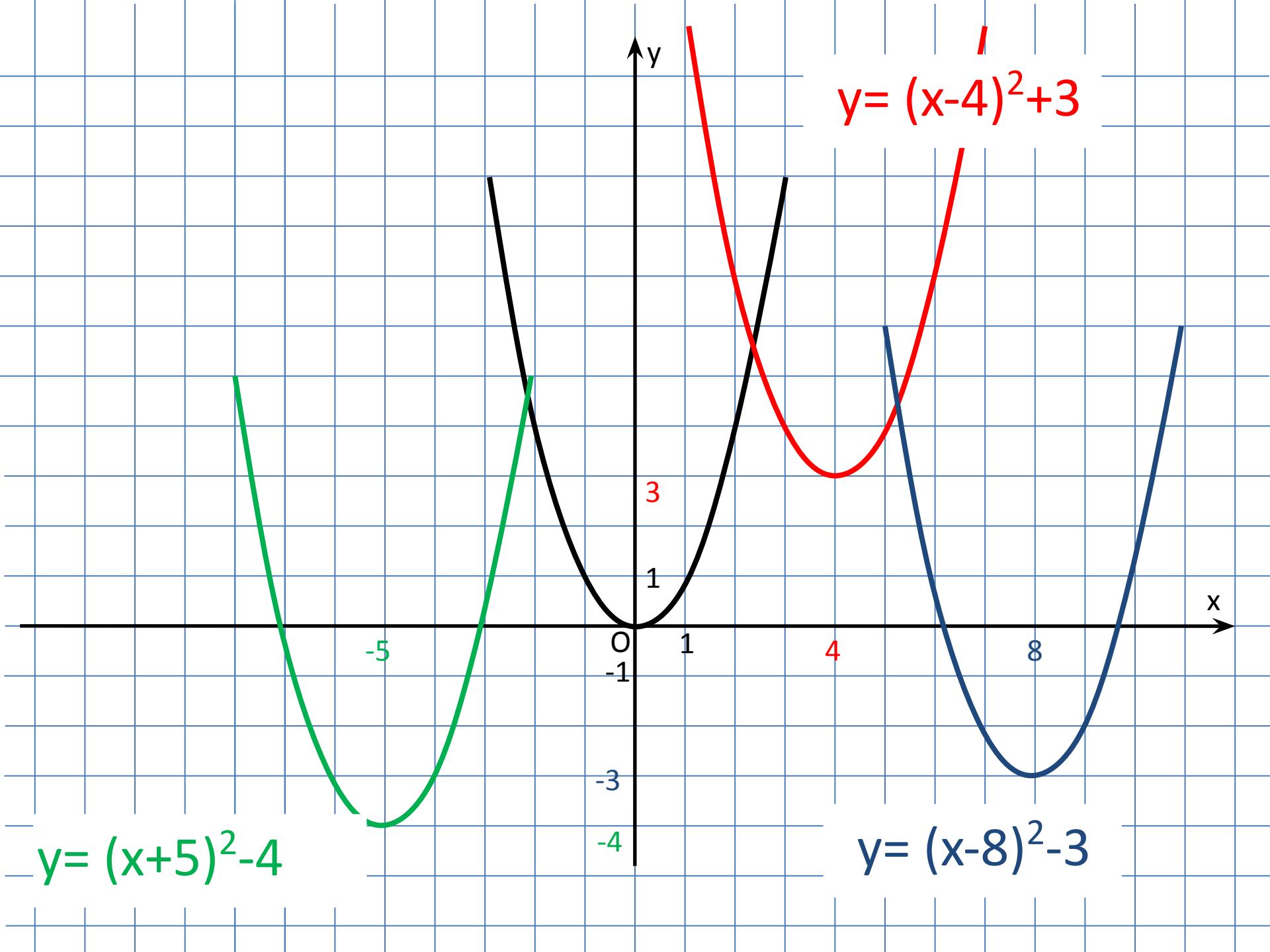
-1

-3

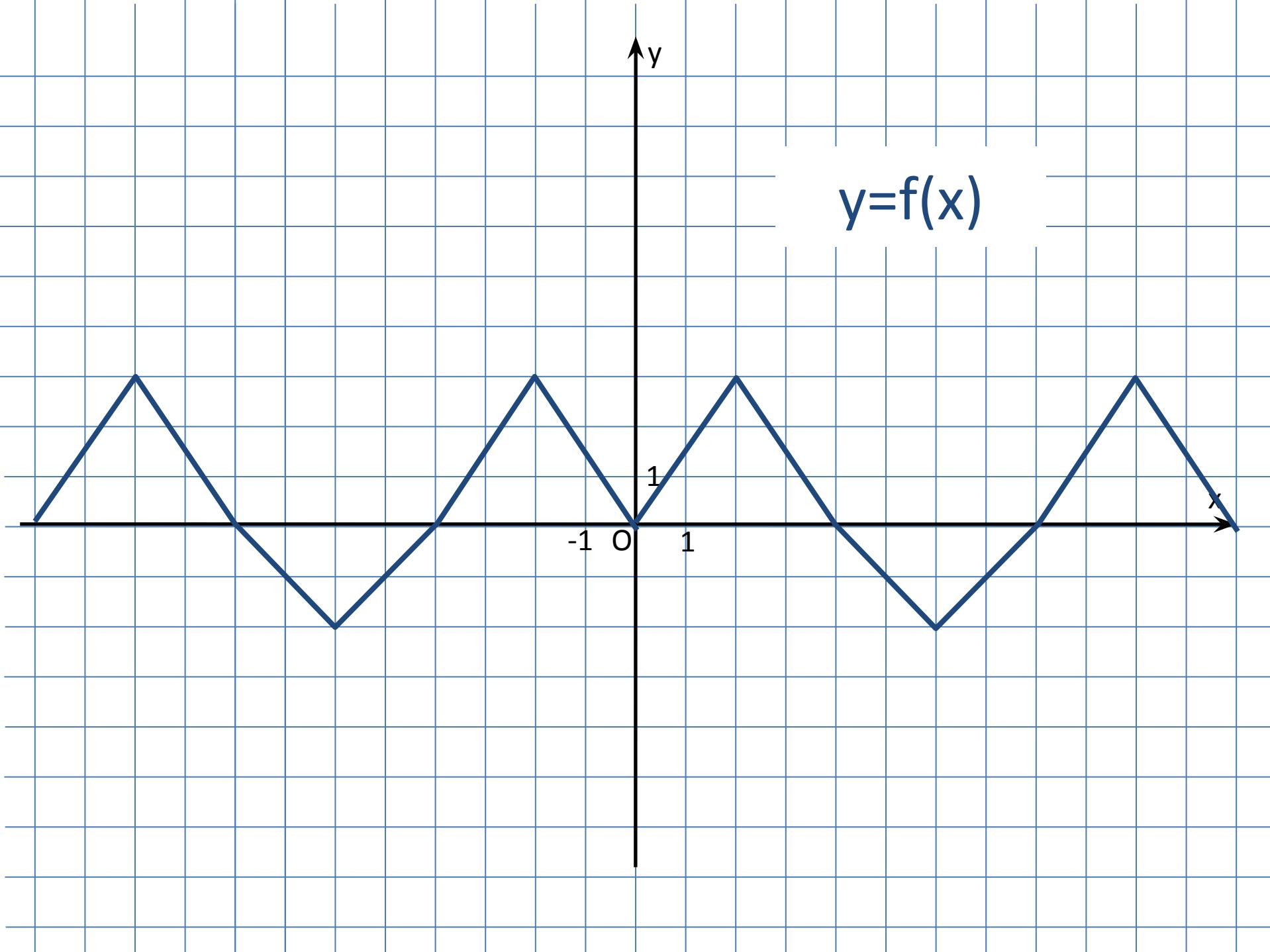
-4

$$y = (x+5)^2 - 4$$

$$y = (x-8)^2 - 3$$



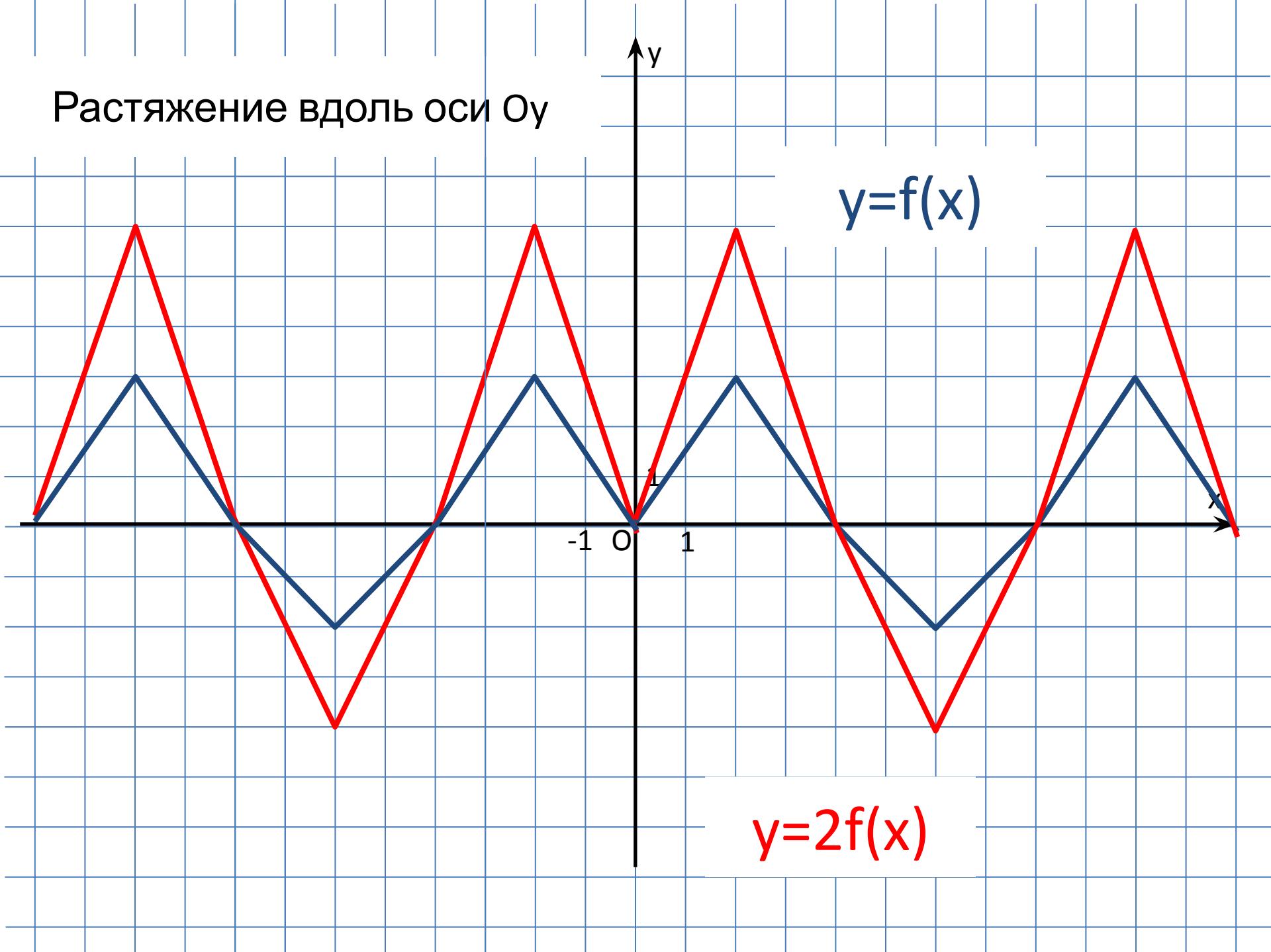
$$y=f(x)$$



Растяжение вдоль оси Оу

$$y=f(x)$$

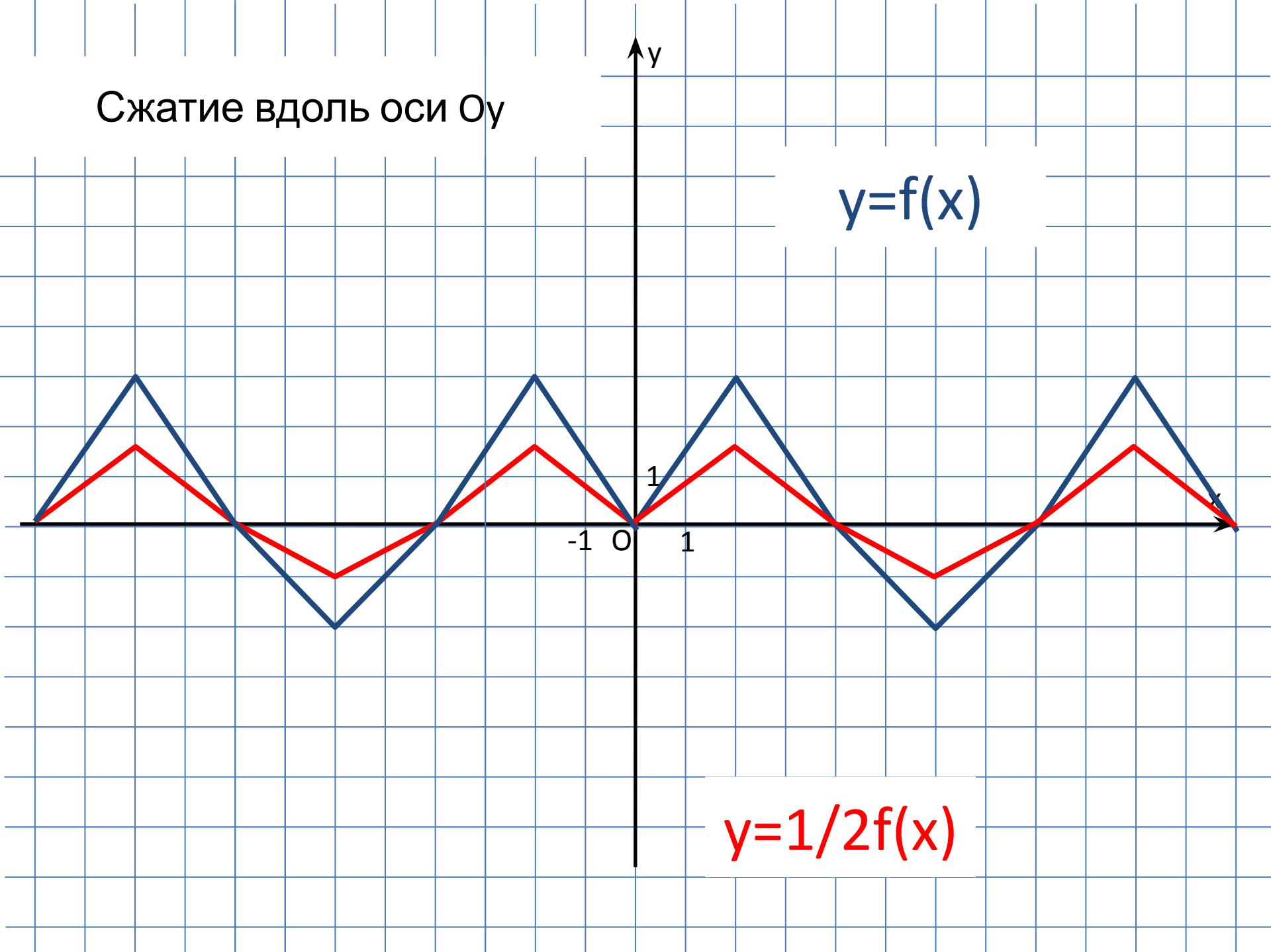
$$y=2f(x)$$



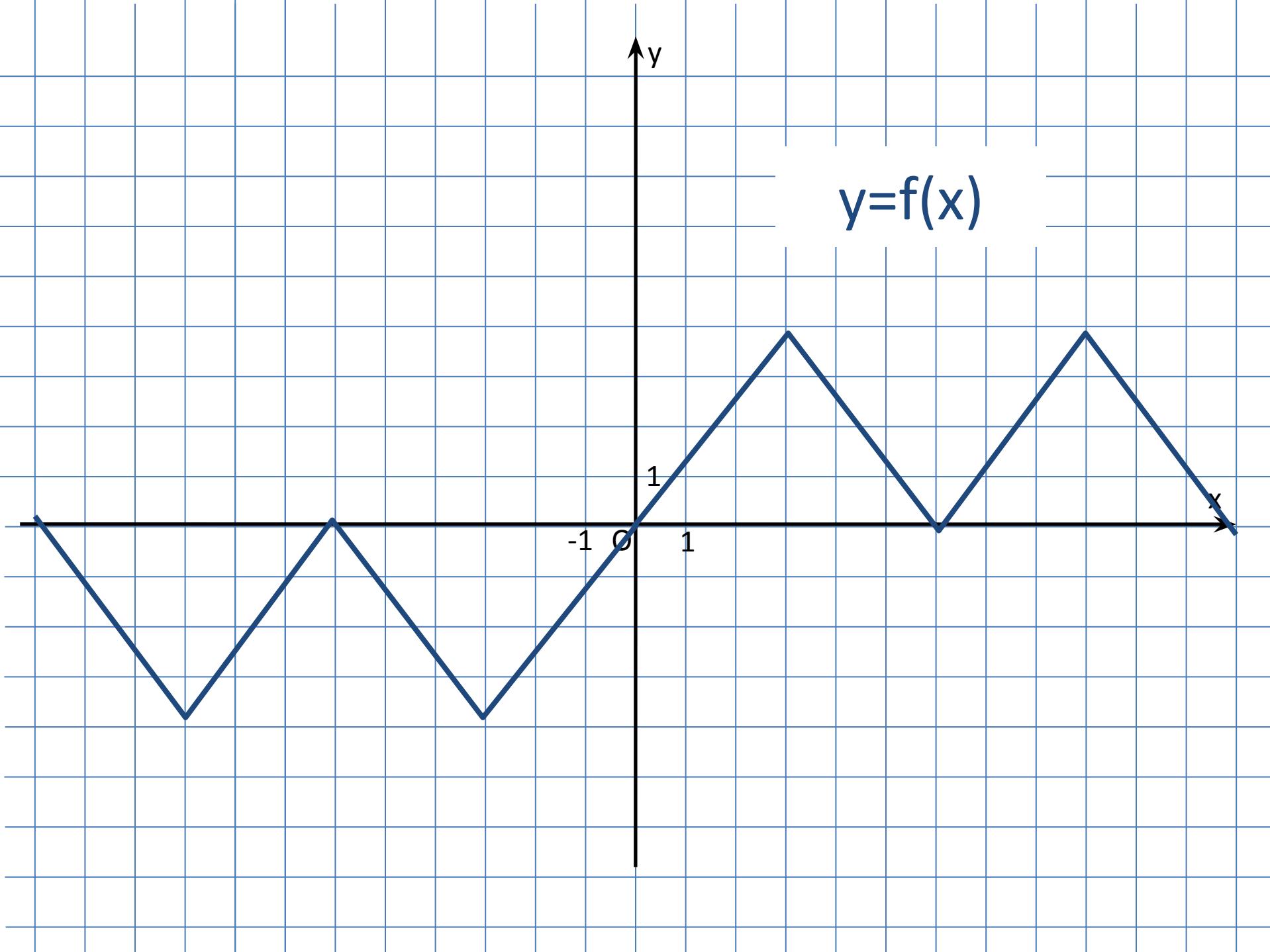
Сжатие вдоль оси Оу

$$y=f(x)$$

$$y=1/2f(x)$$

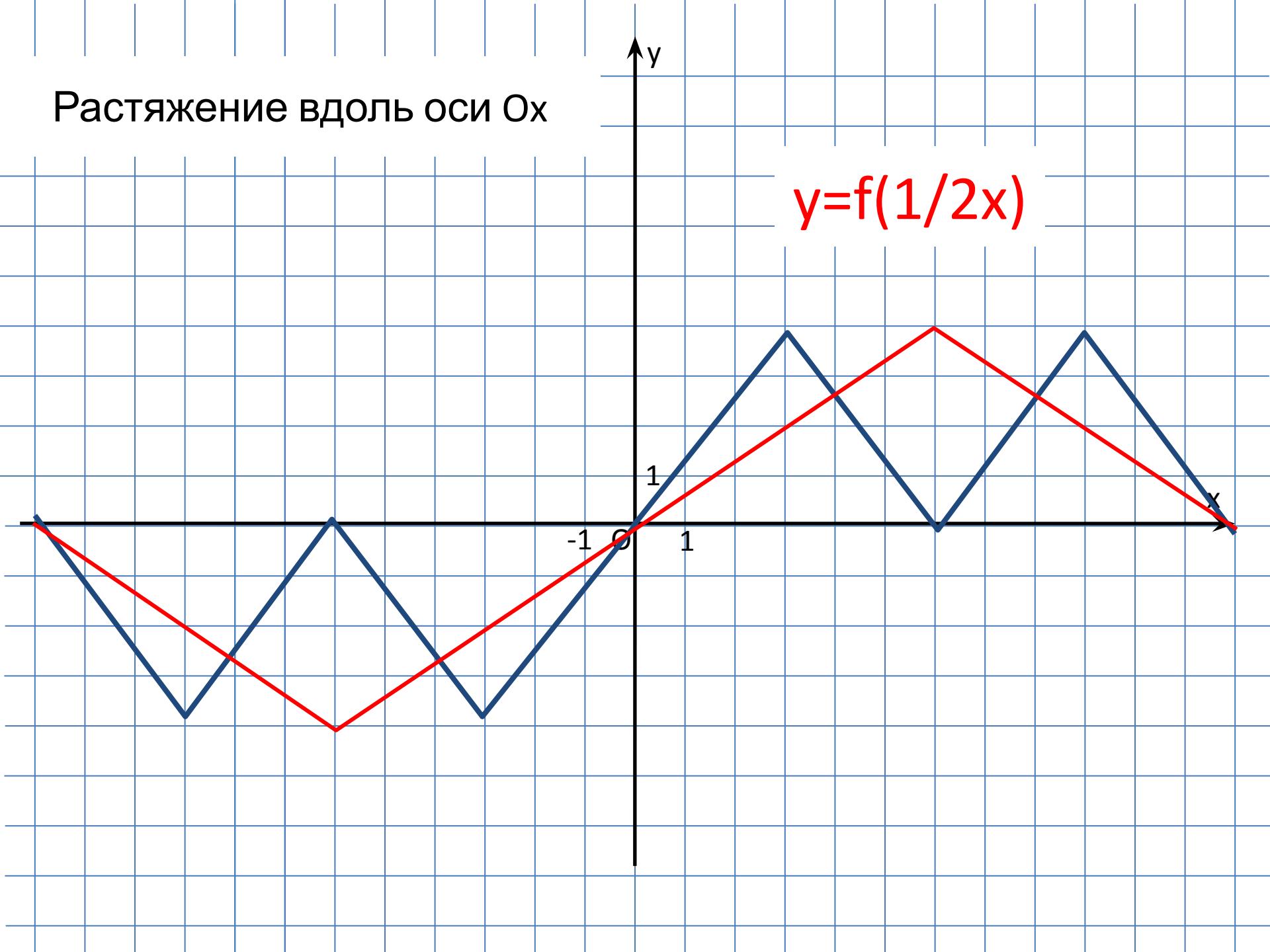


$y=f(x)$



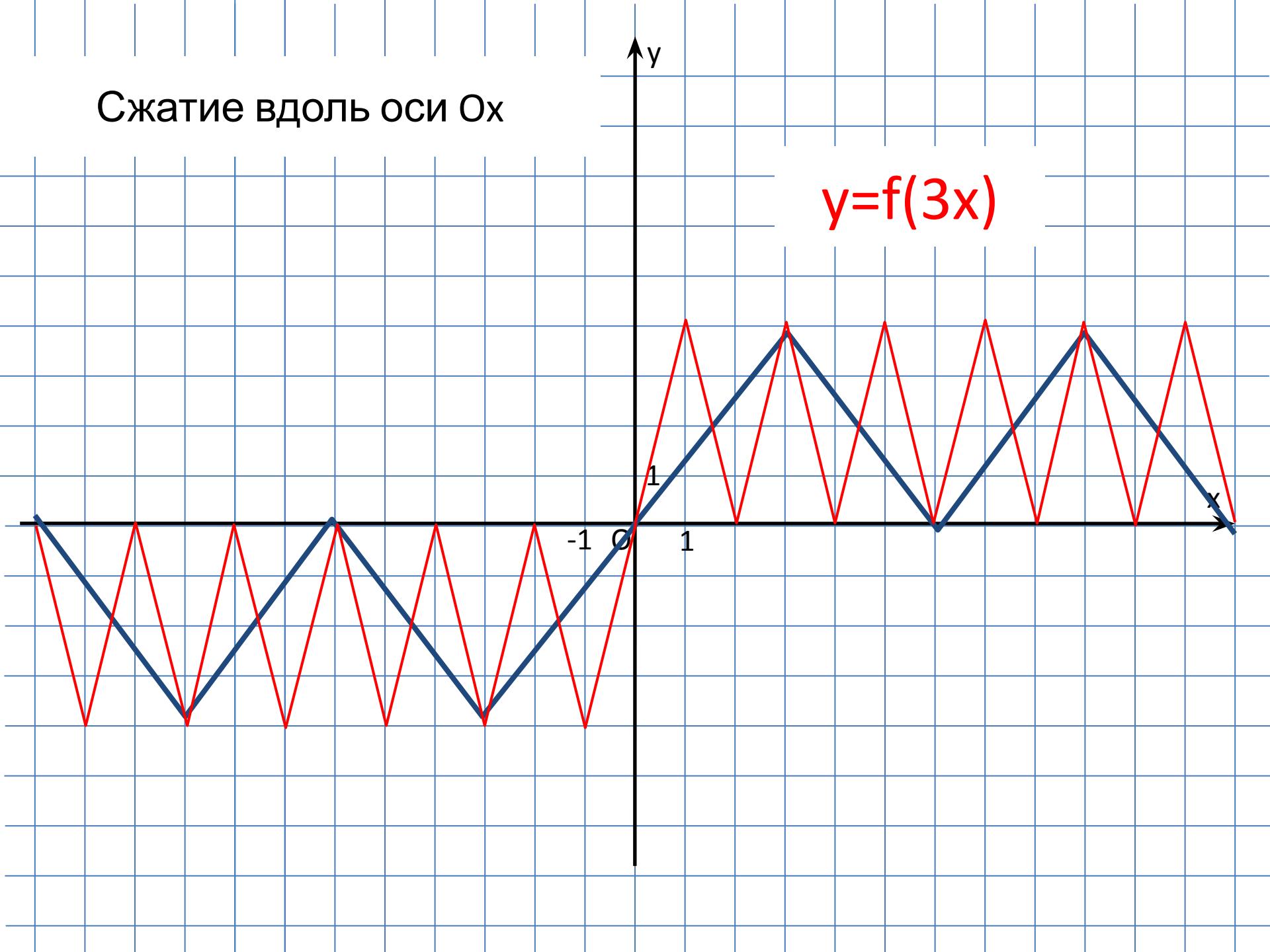
Растяжение вдоль оси Ох

$$y=f(1/2x)$$

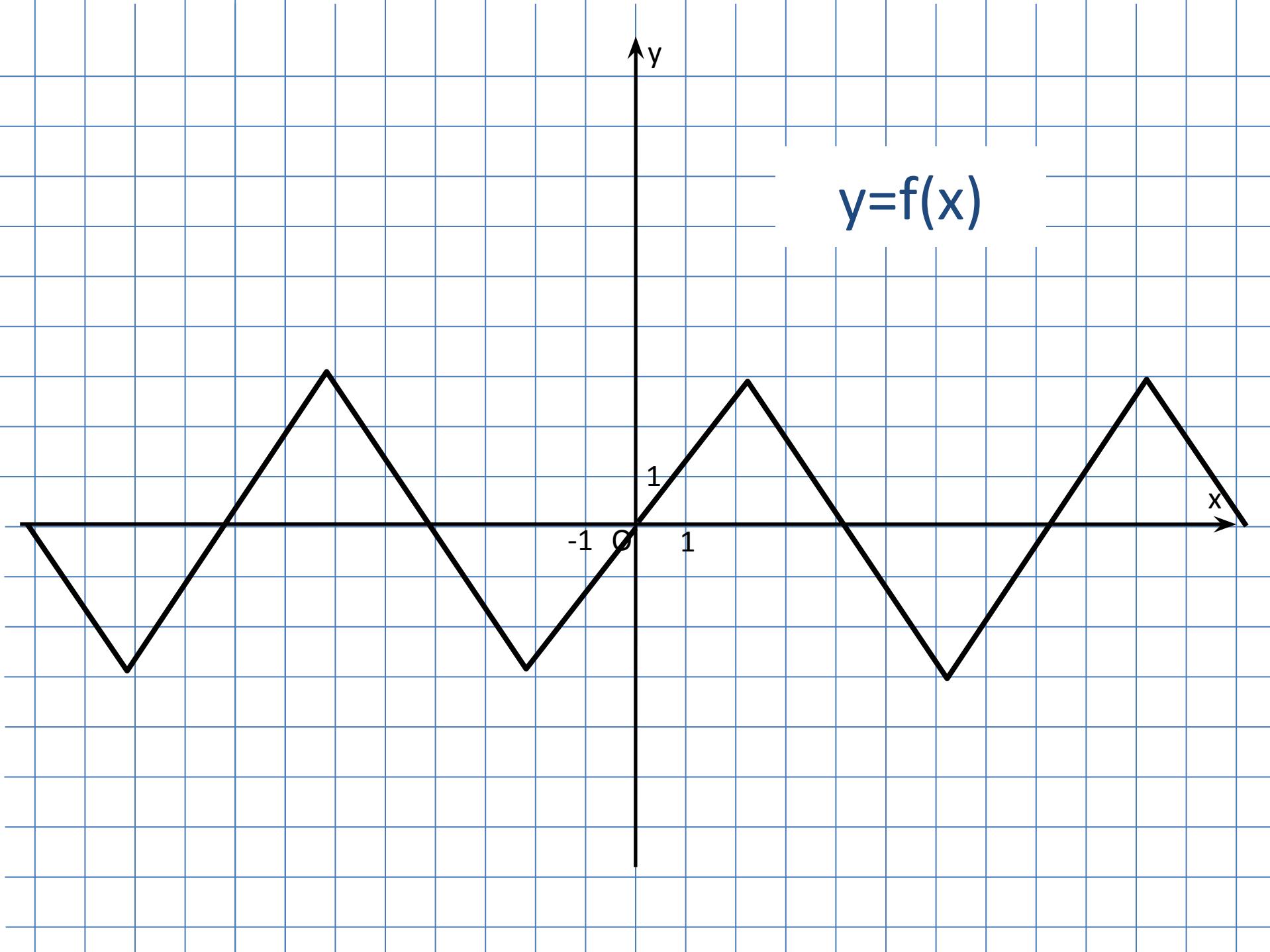


Сжатие вдоль оси Ох

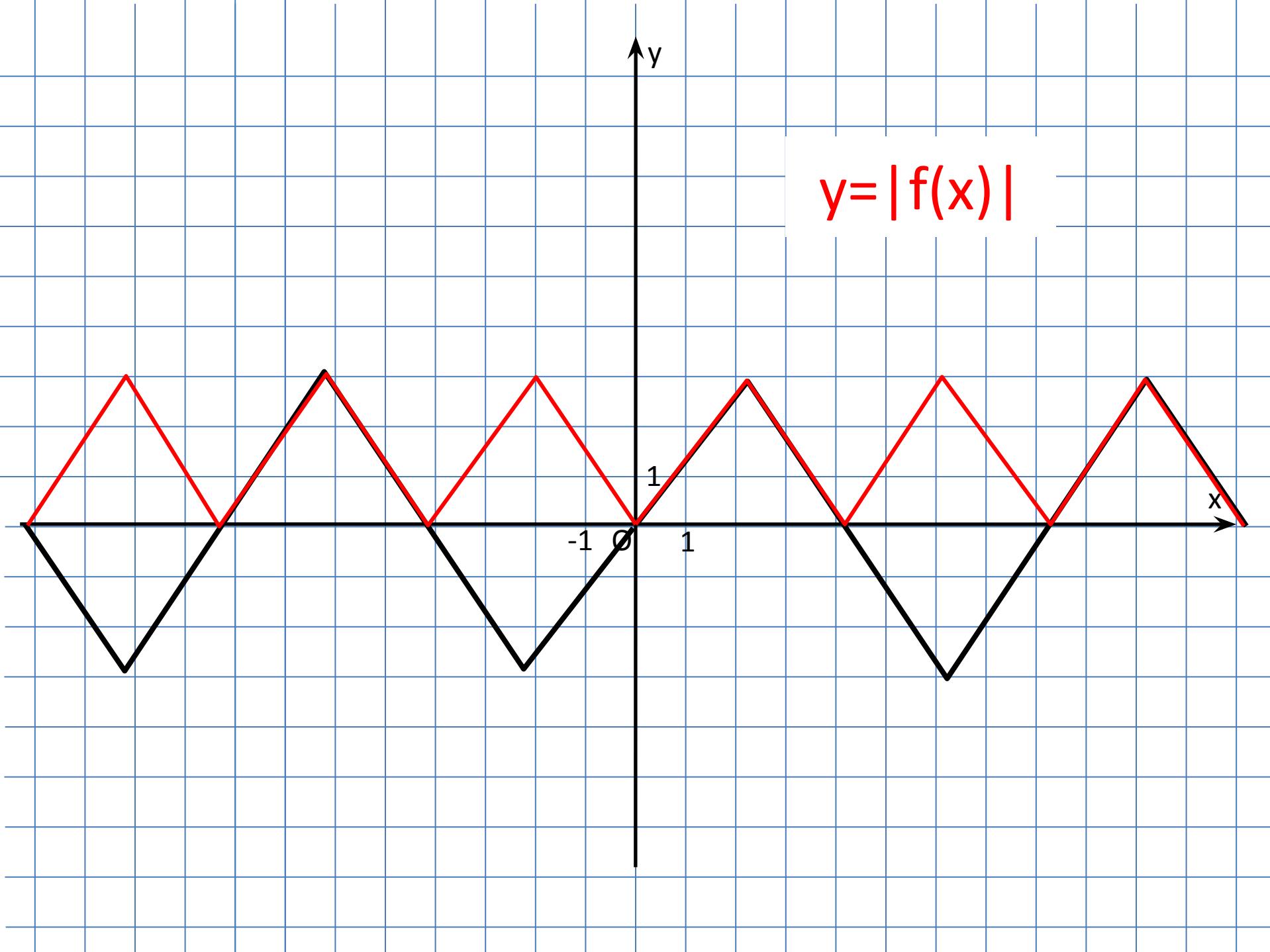
$$y=f(3x)$$



$$y=f(x)$$



$$y = |f(x)|$$



$$y=f(|x|)$$

