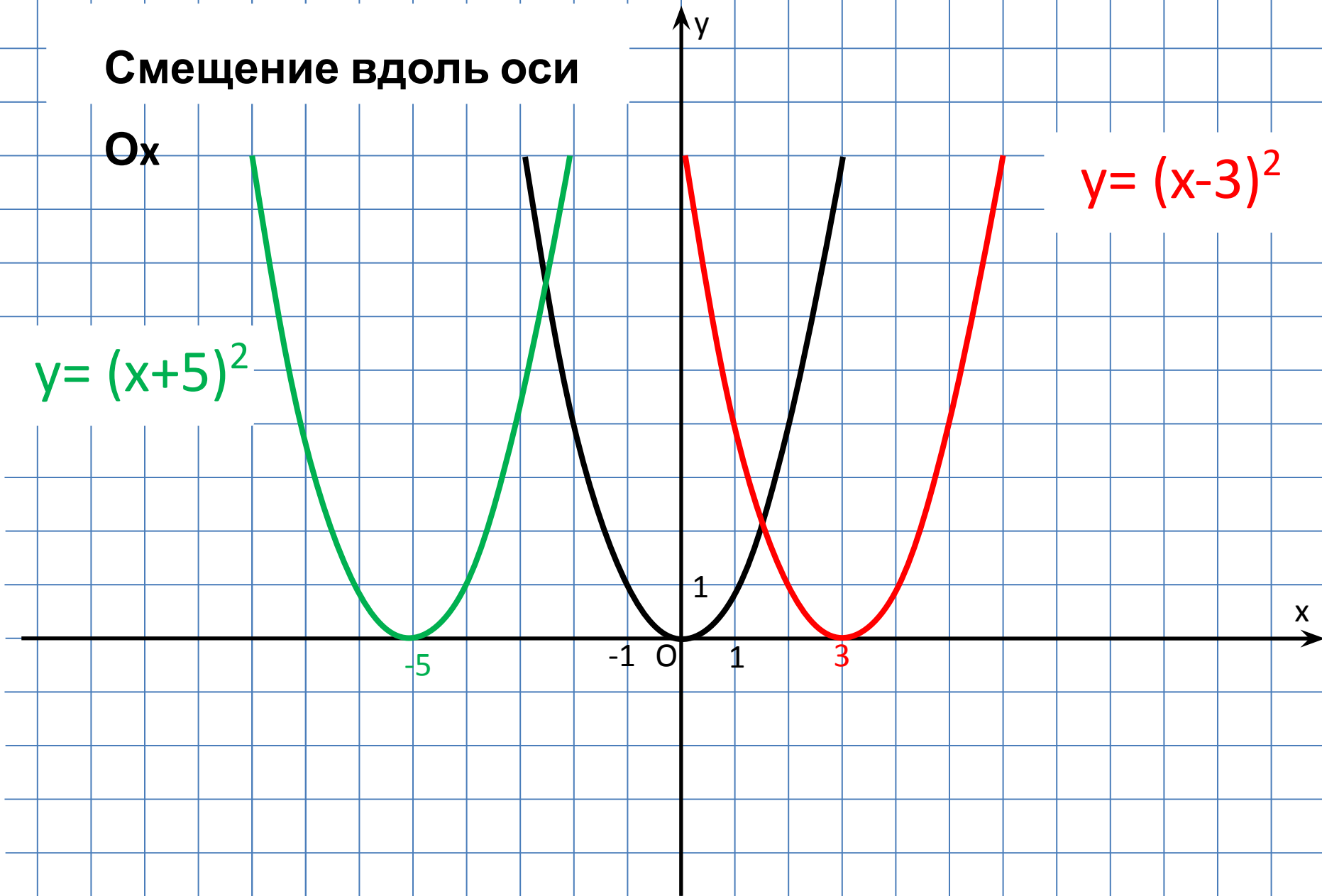


# Смещение вдоль оси

Ox

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

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

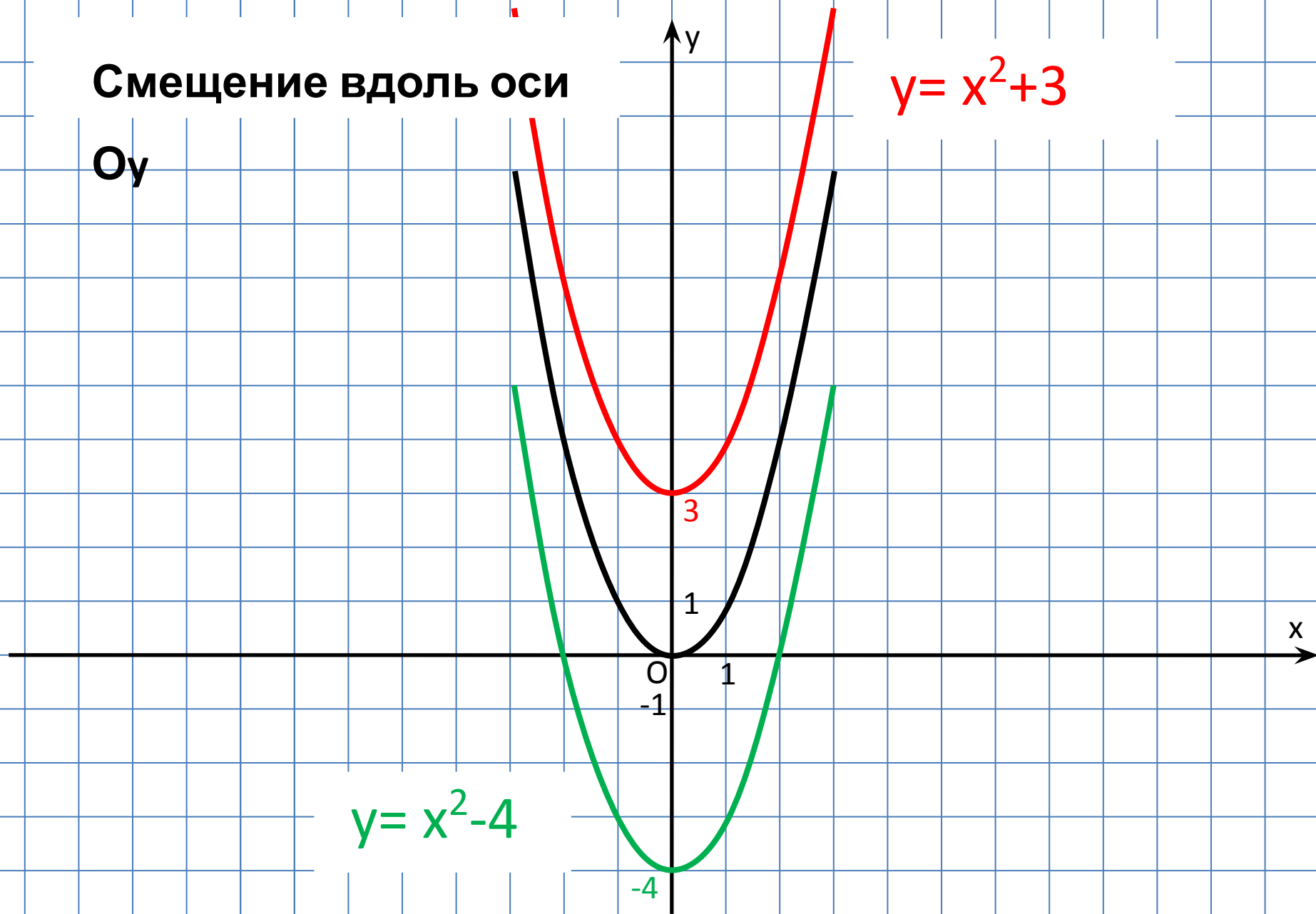


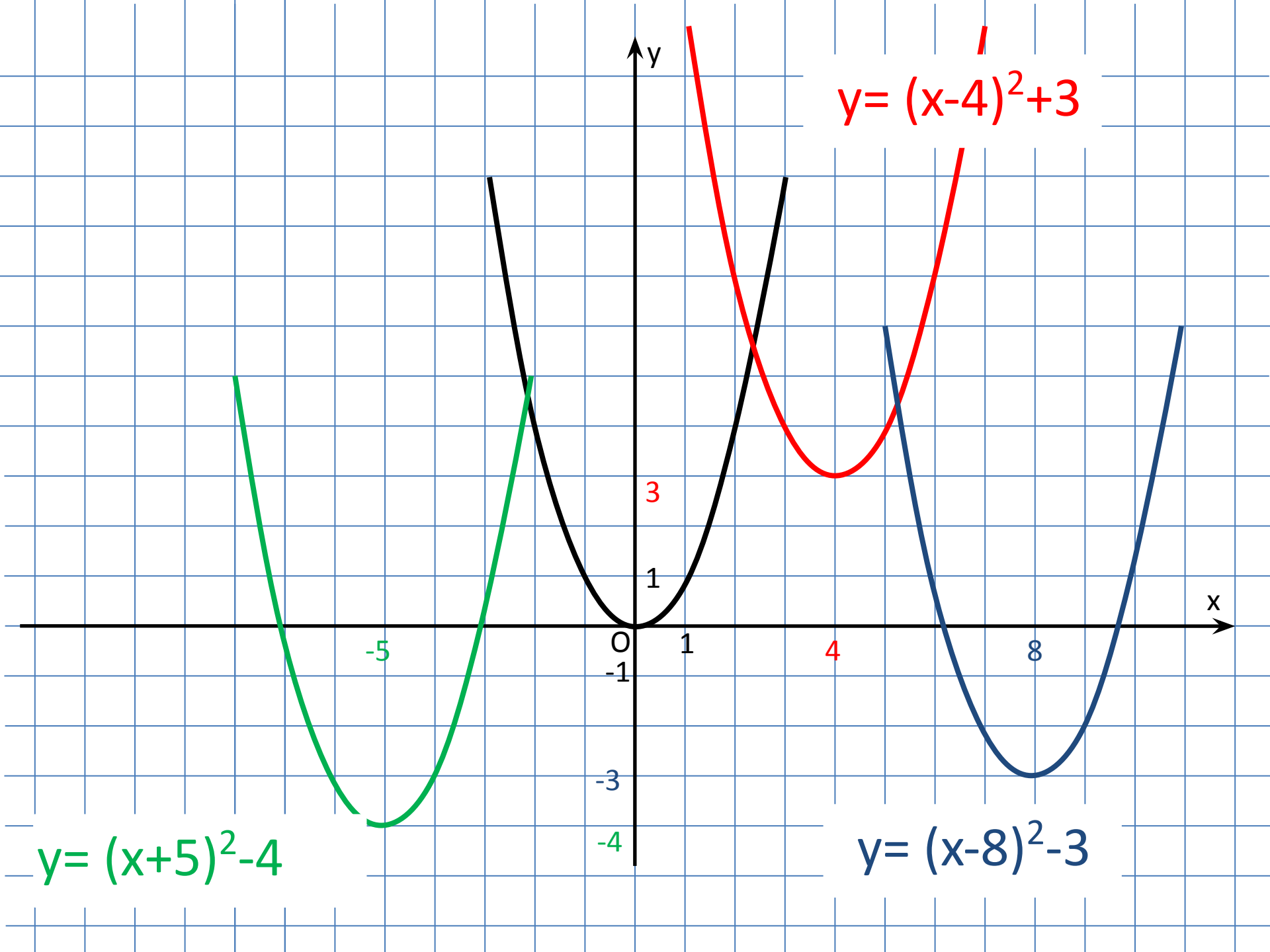
Смещение вдоль оси

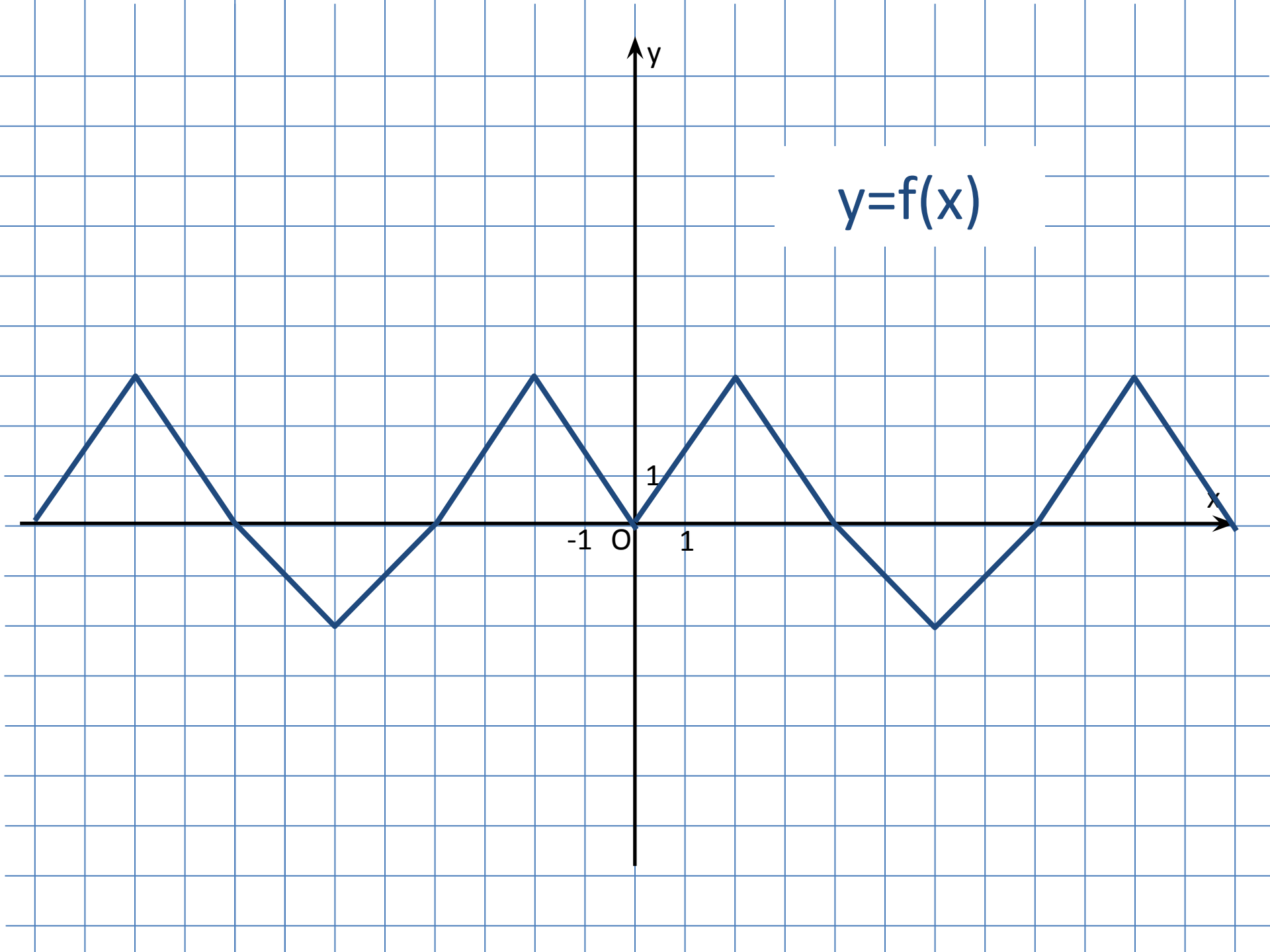
Oy

$$y = x^2 + 3$$

$$y = x^2 - 4$$



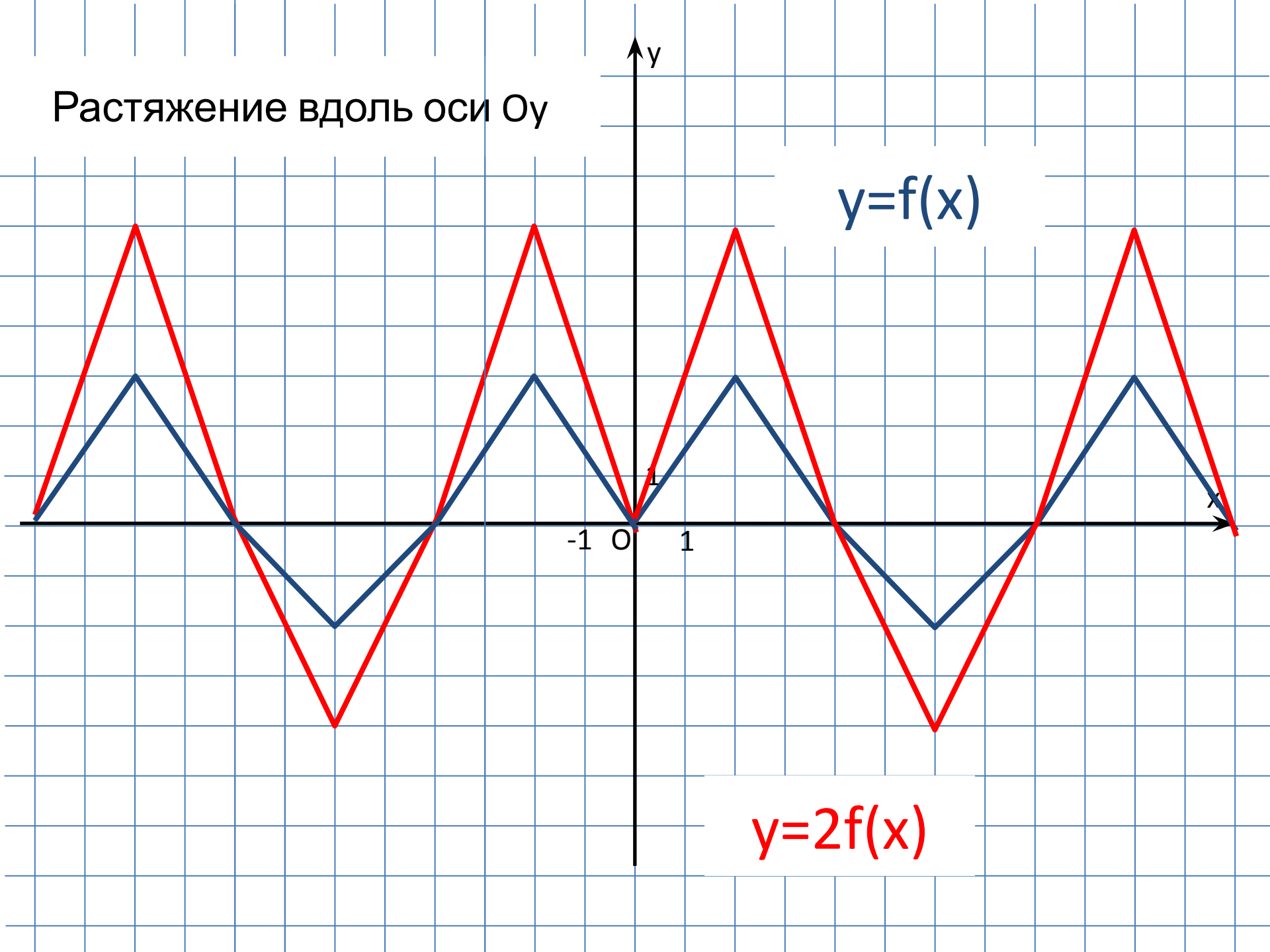




Растяжение вдоль оси Oy

y

$y=f(x)$



-1

O

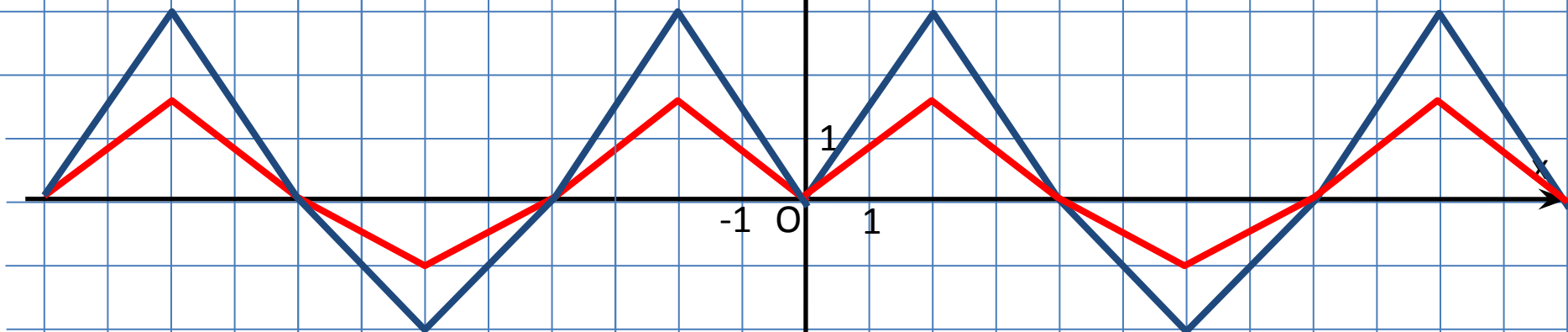
1

$y=2f(x)$

Сжатие вдоль оси Oy

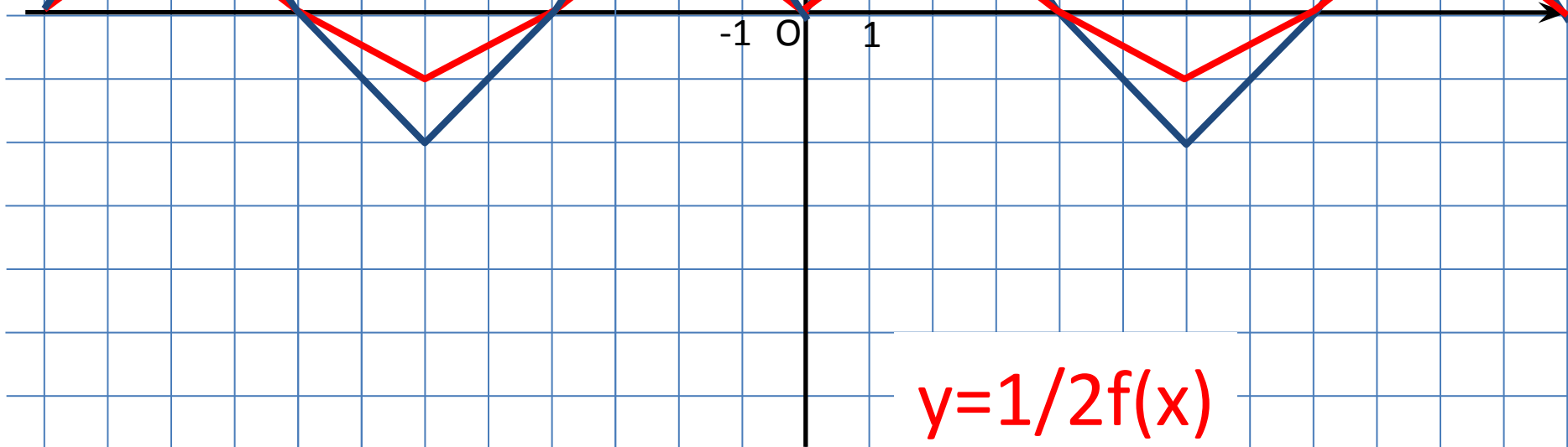
y

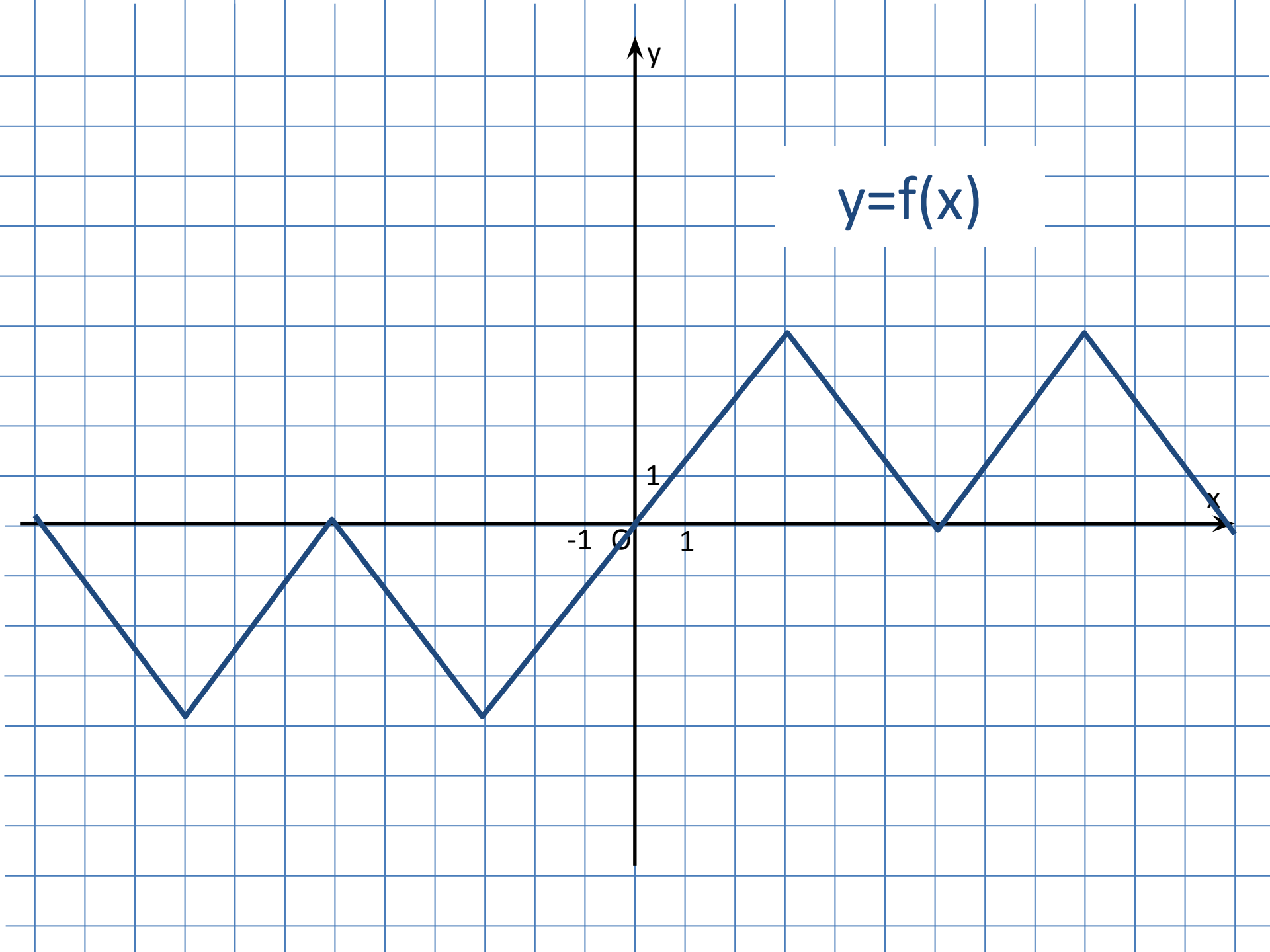
$$y=f(x)$$



-1 0 1

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





$y=f(x)$

-1

O

1

y

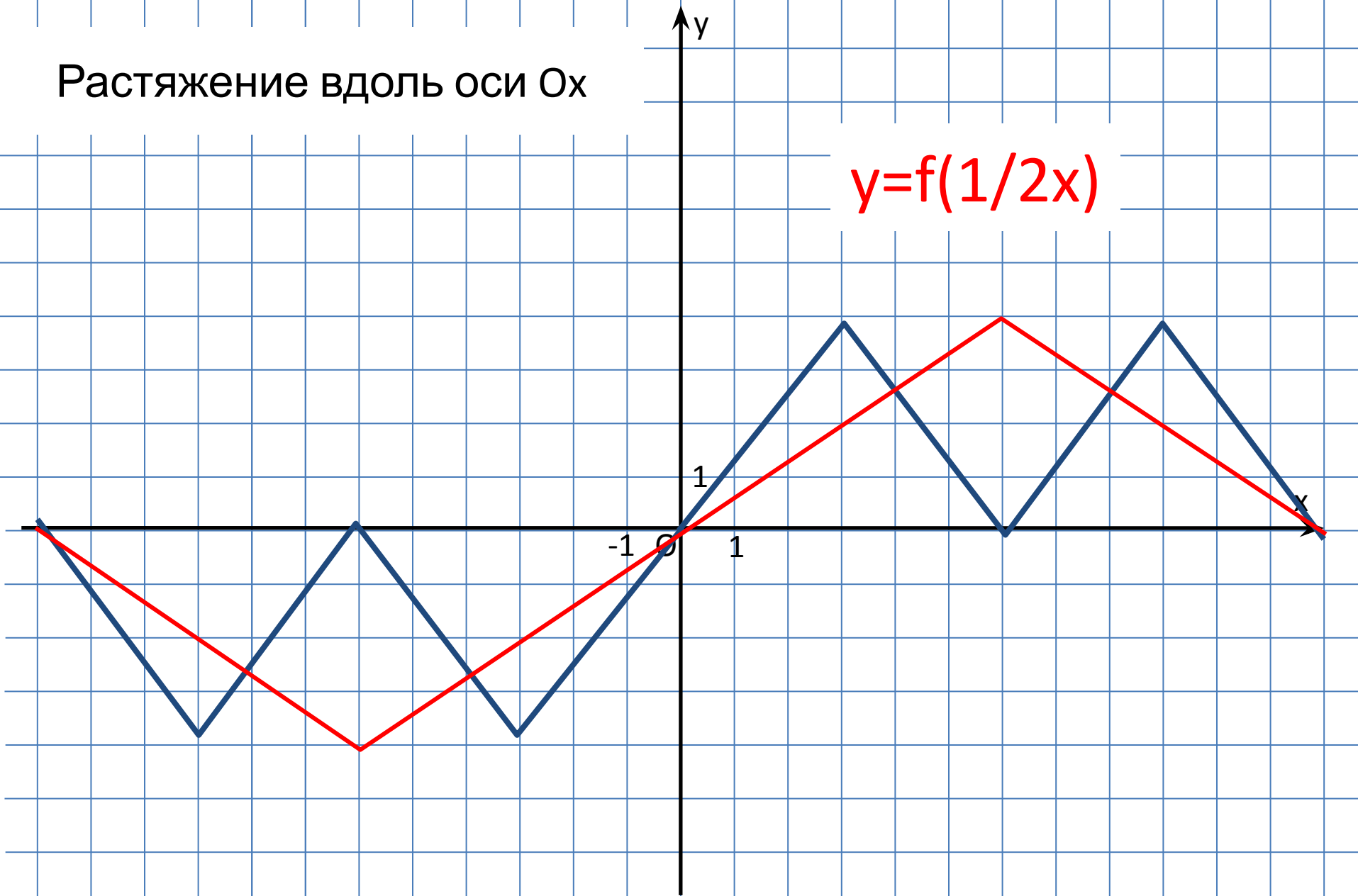
x

1



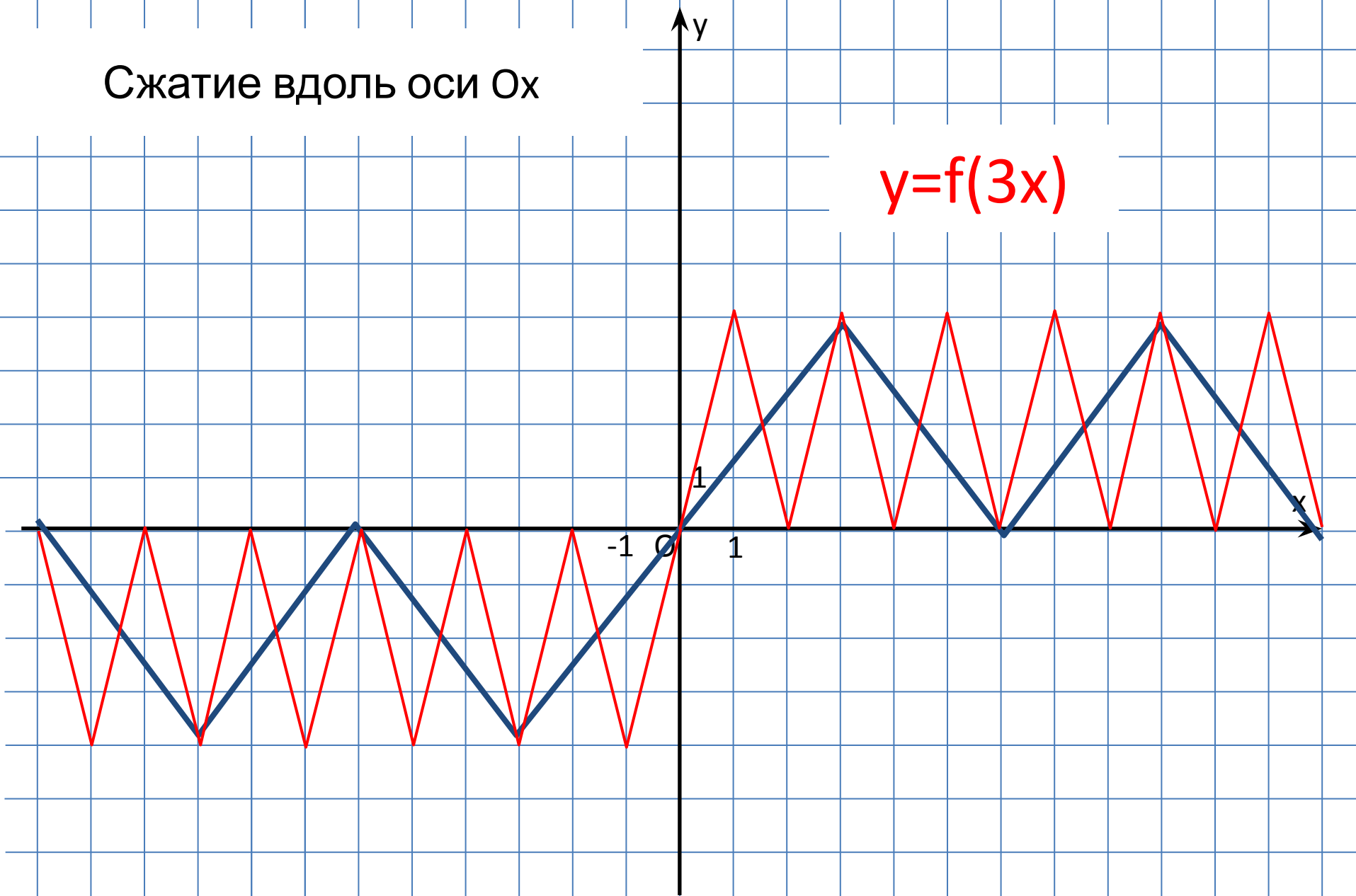
Растяжение вдоль оси  $Ox$

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

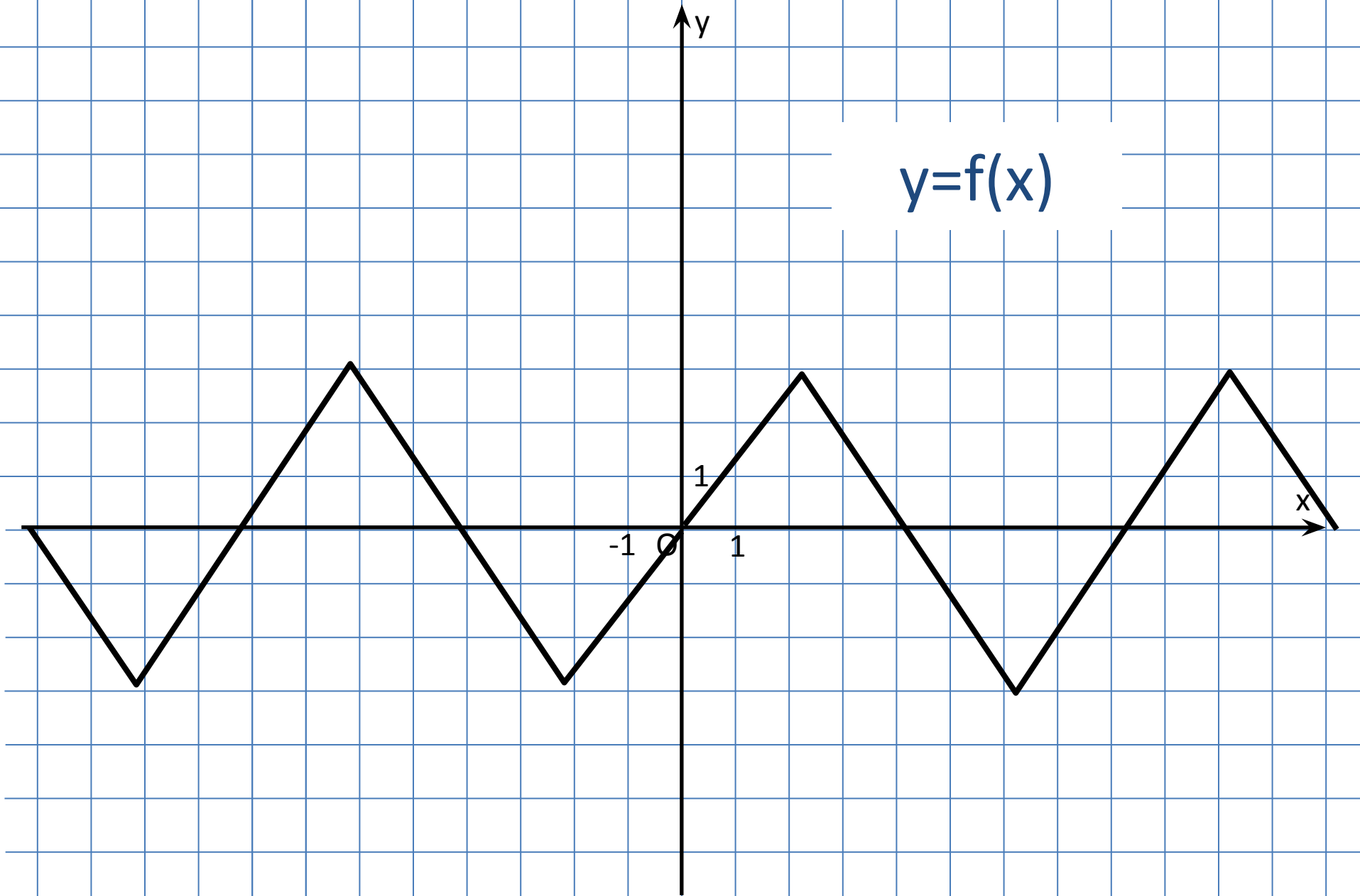


Сжатие вдоль оси  $Ox$

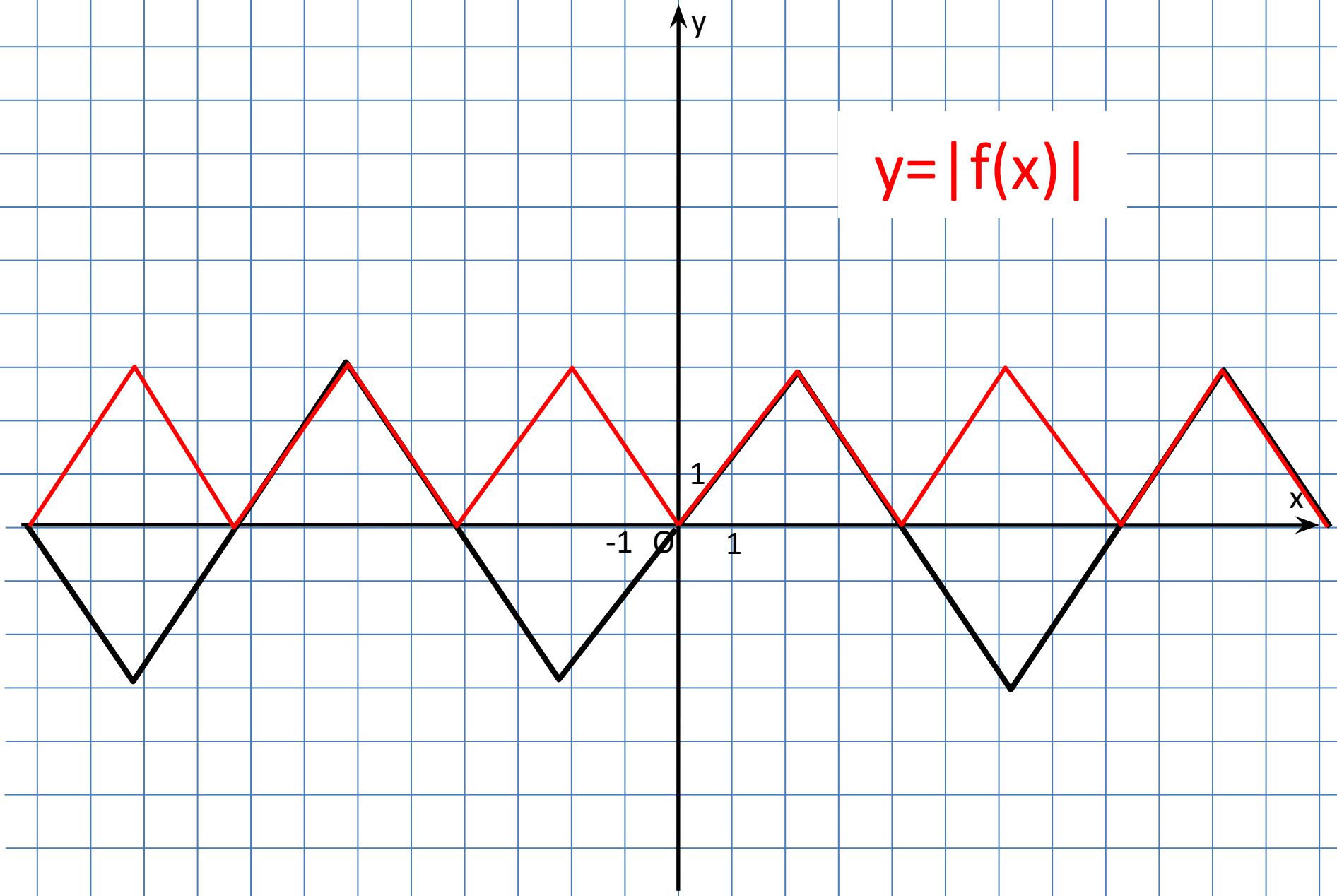
$$y=f(3x)$$



$$y=f(x)$$



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



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

