

Модуль и графики

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Определение модуля

Модуль действительного числа a – это неотрицательное число (обозначается $|a|$), определяемое так: если $a \geq 0$, то $|a| = a$, если $a < 0$, то $|a| = -a$.

Например:

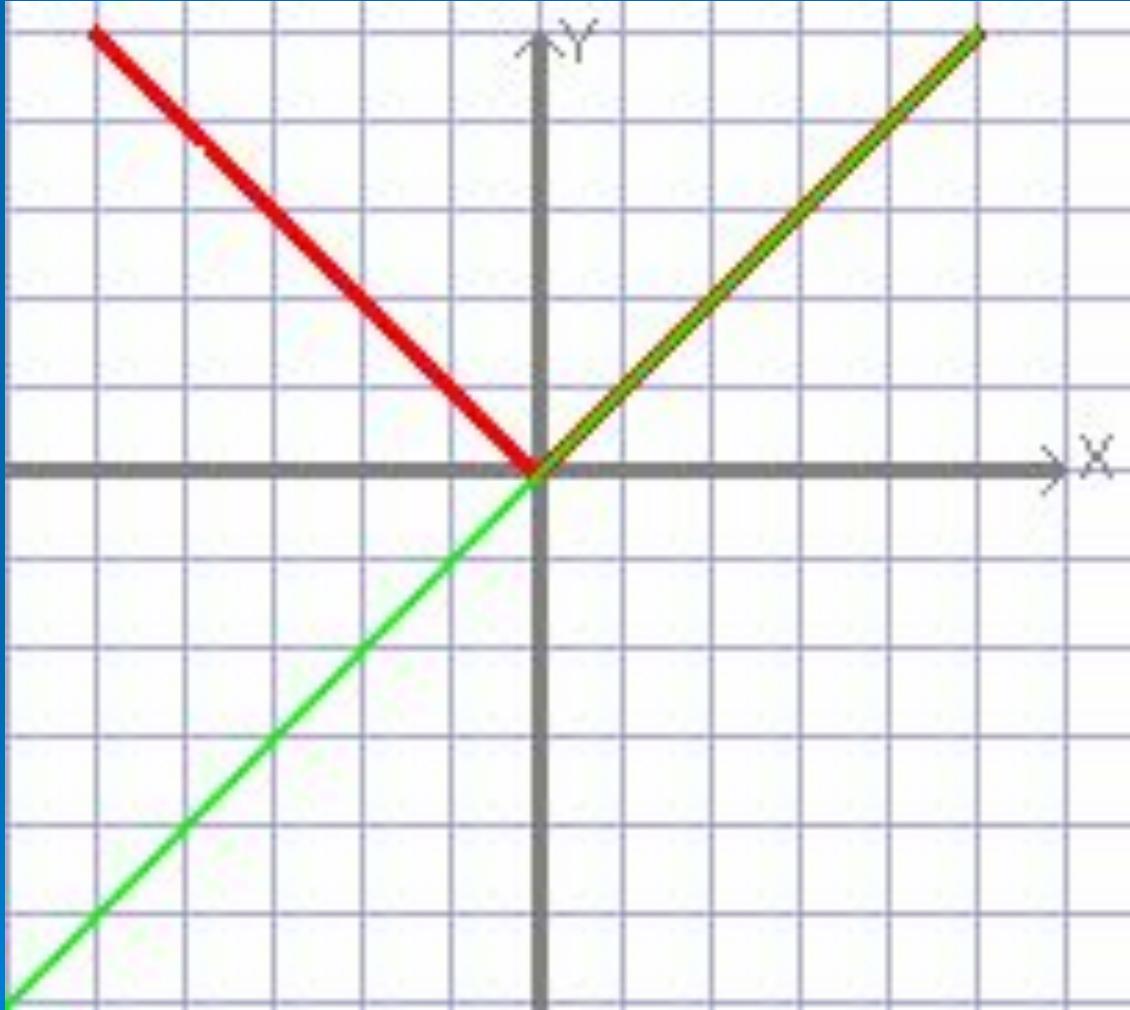
$$|3| = 3; \quad |0| = 0;$$

$$|-5| = -(-5) = 5.$$

$$|x| = \begin{cases} x, & \text{если } x \geq 0 \\ -x, & \text{если } x < 0 \end{cases}$$

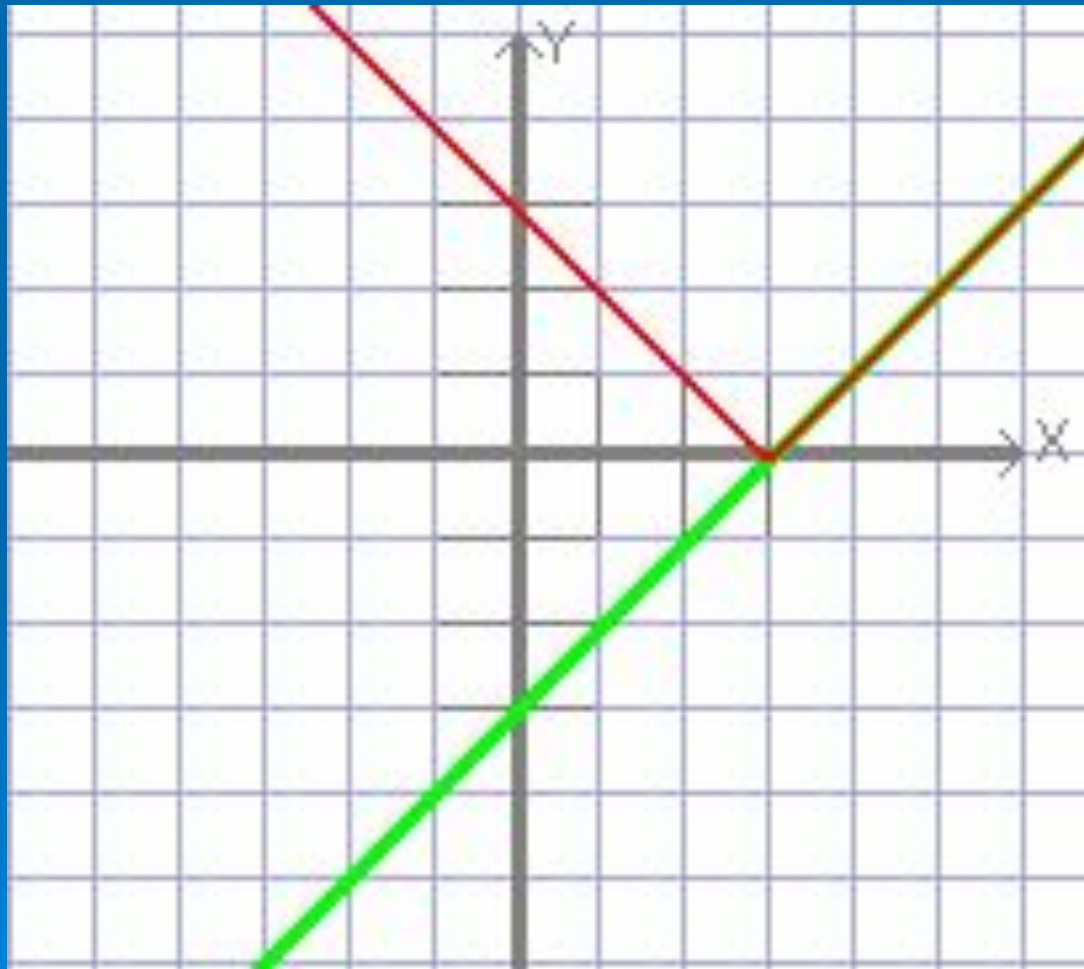
$$y=|x|$$

$$y=x$$



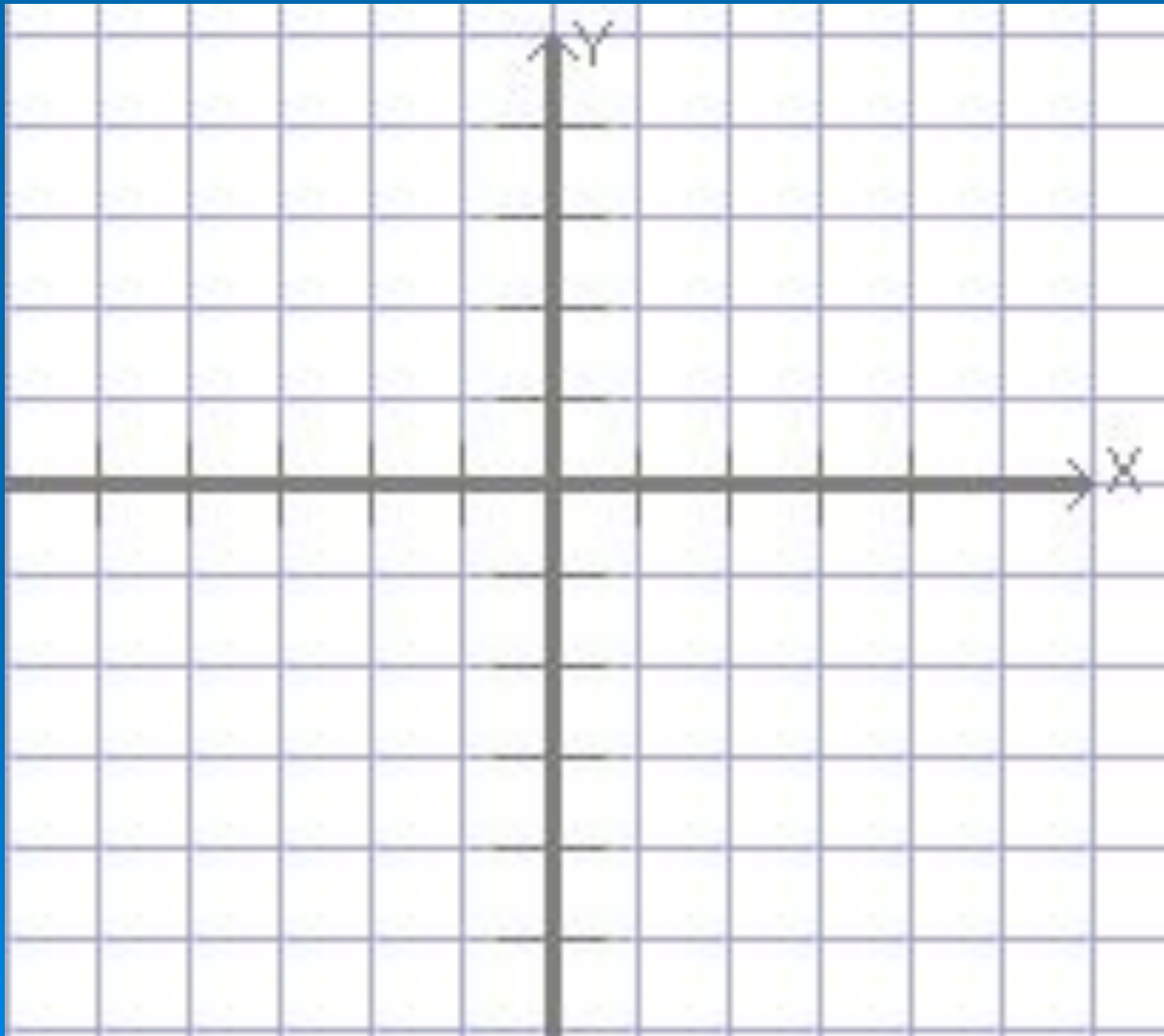
$$y = |x - 3|$$

$$y = x - 3$$



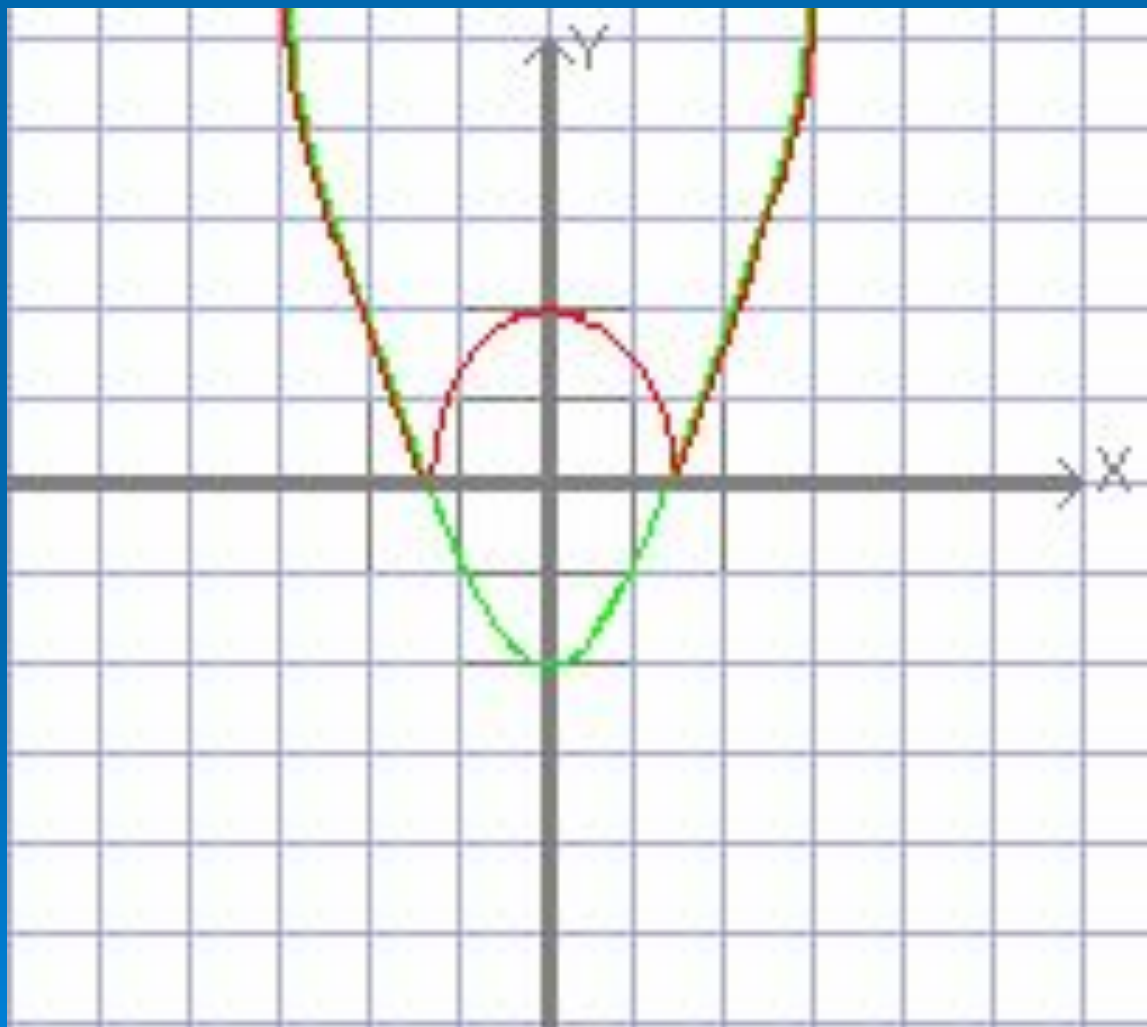
$$y = |x^2 - 2|$$

$$y = x^2 - 2$$



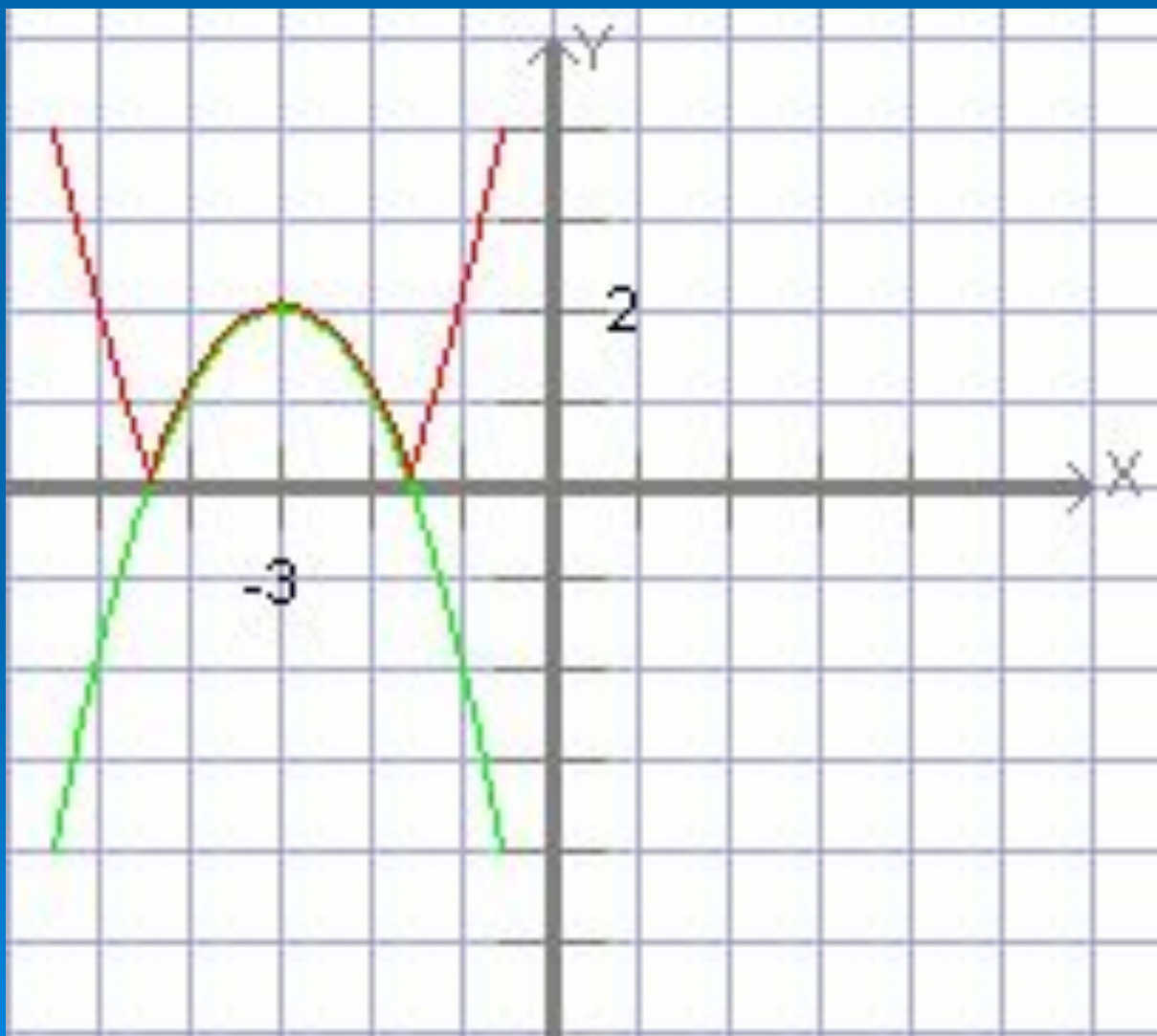
$$y = |x^2 - 2|$$

$$y = x^2 - 2$$



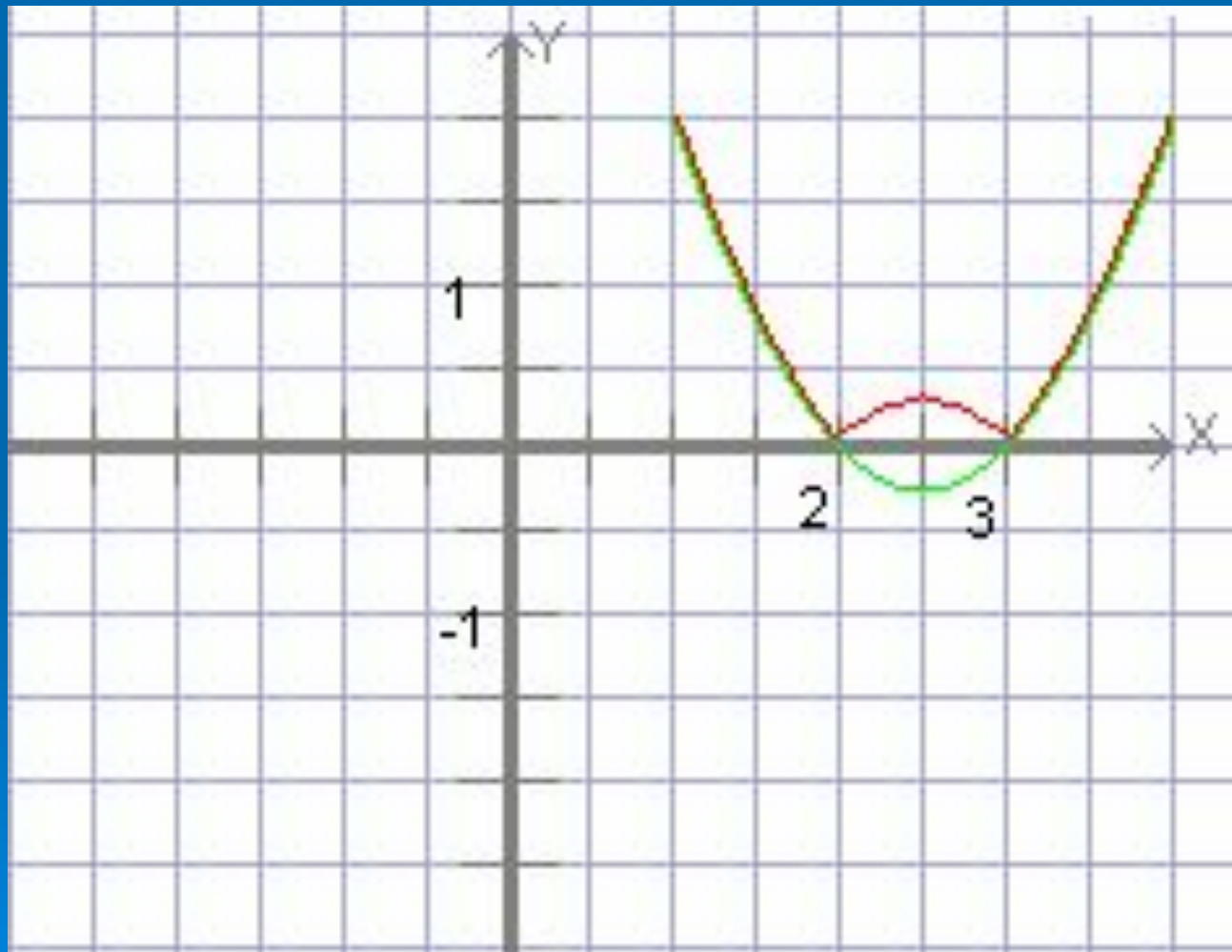
$$y = -(x+3)^2 + 2$$

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



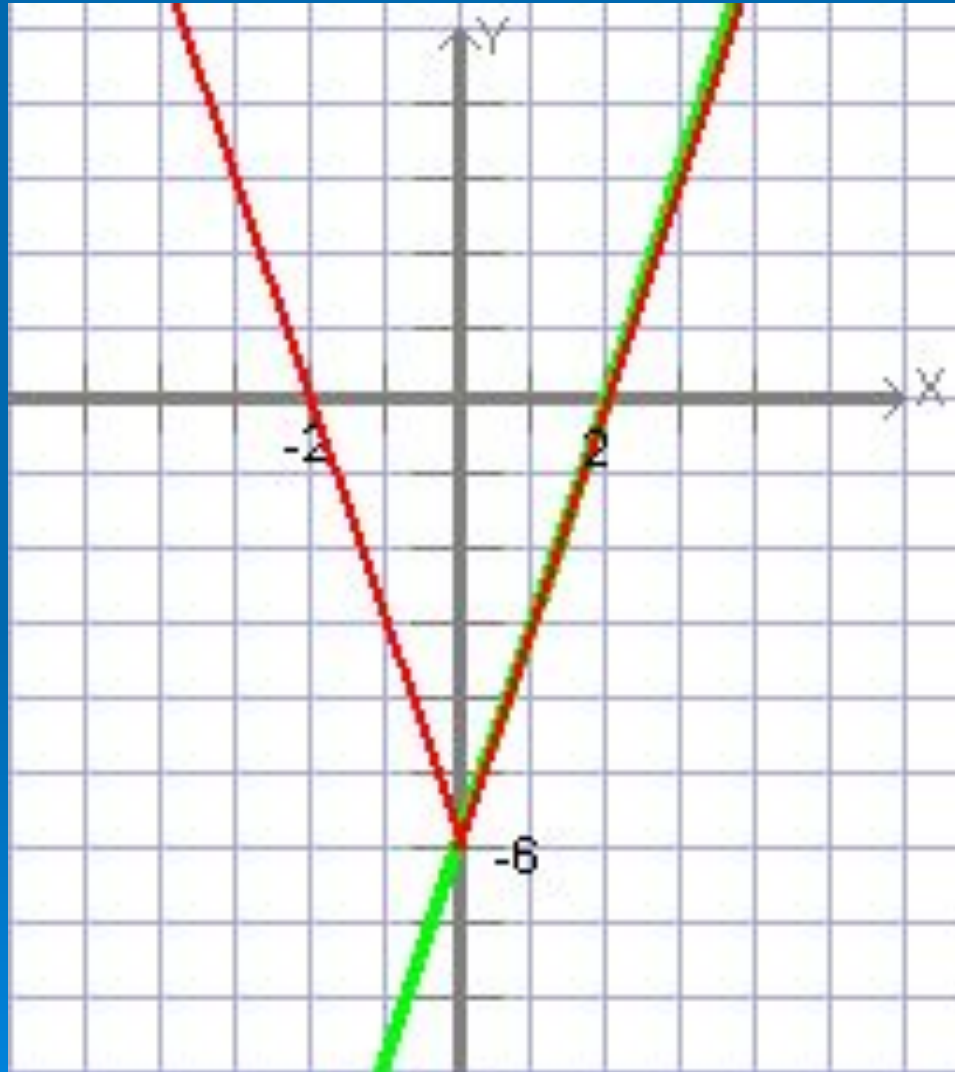
$$y = x^2 - 5x + 6$$

$$y = |x^2 - 5x + 6|$$



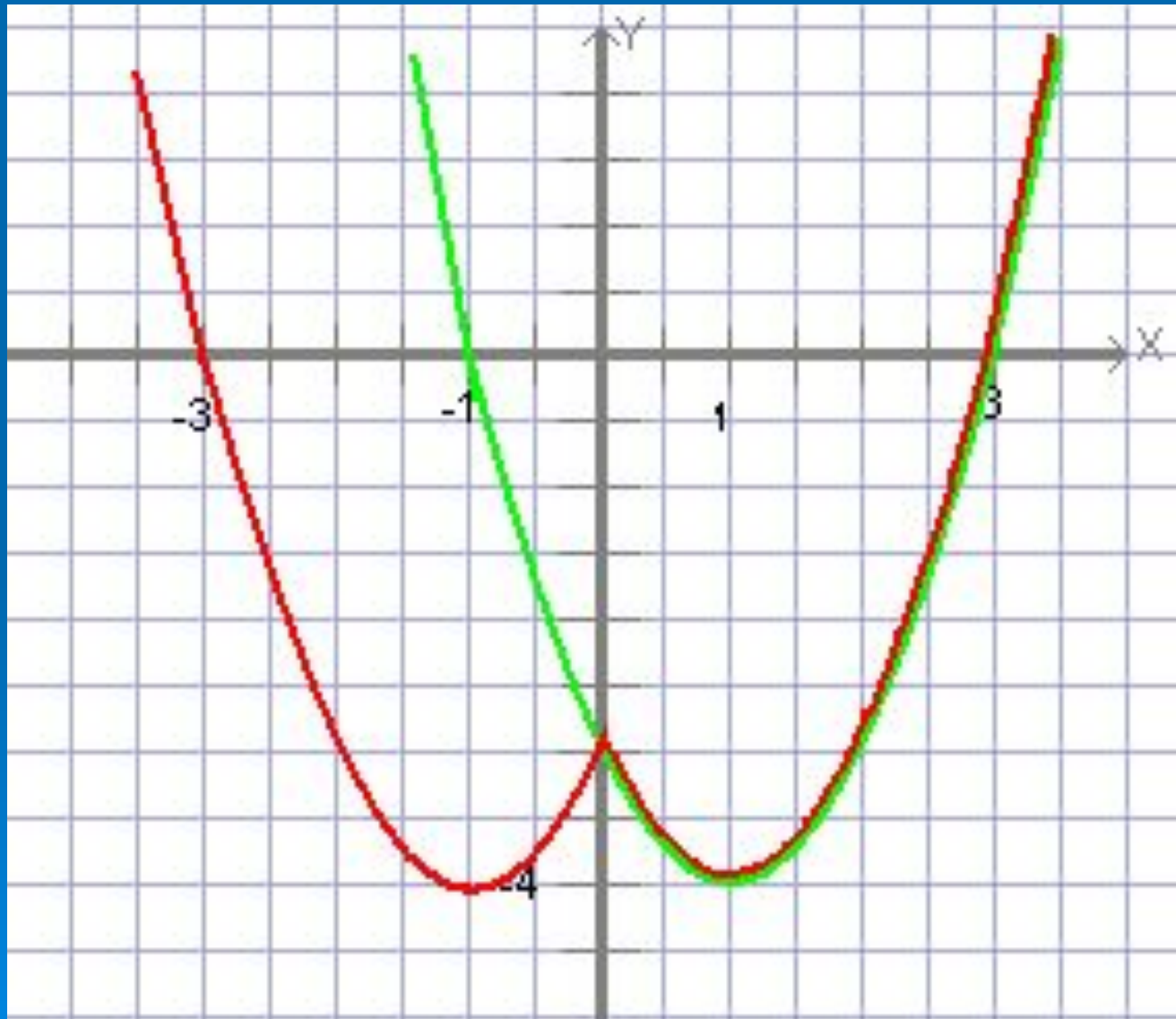
$$y=3x-6$$

$$y=3|x|-6$$



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

$$y = x^2 - 2|x| - 3$$



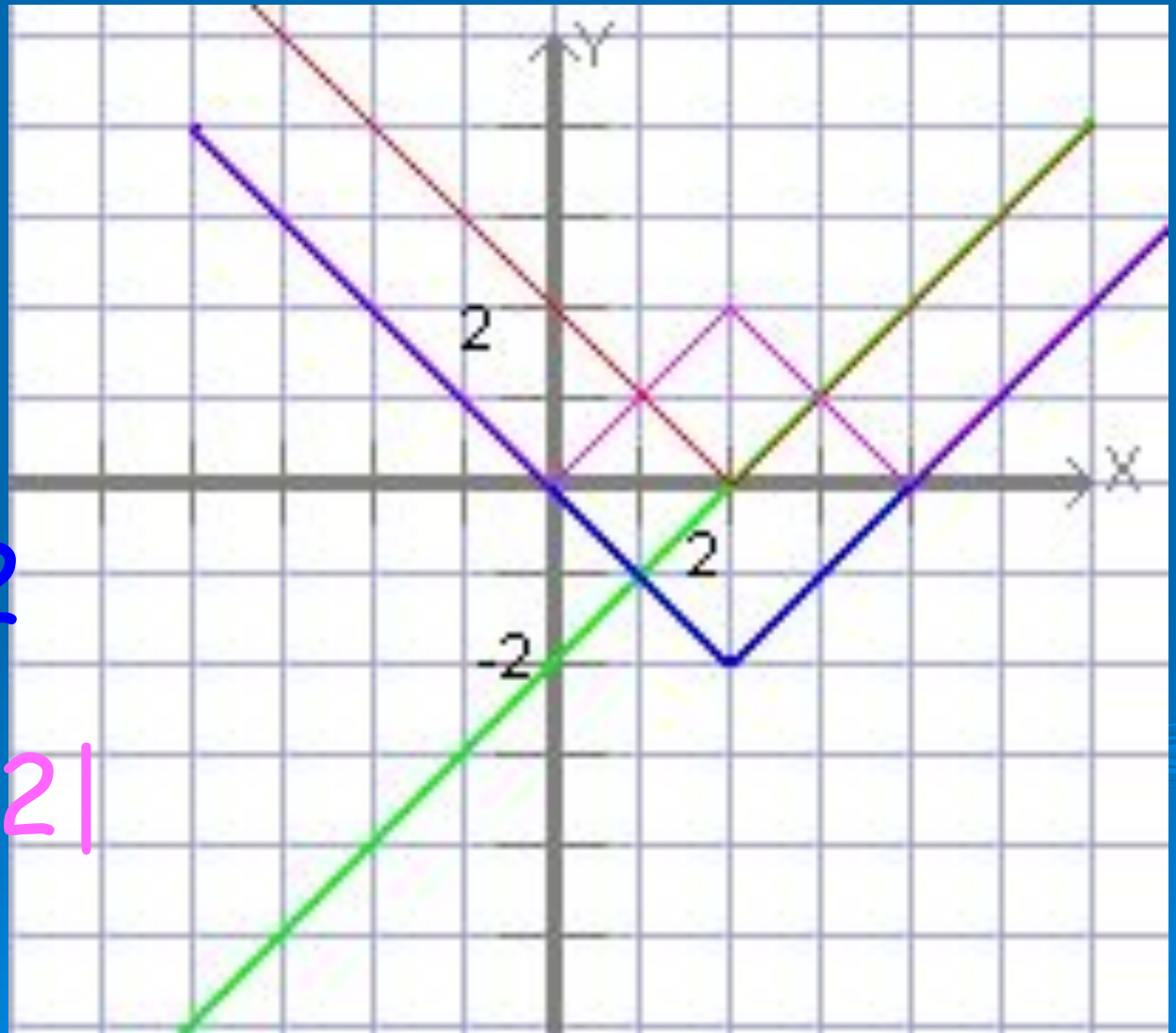
$$y = ||x-2|-2|$$

$$y = x - 2$$

$$y = |x-2|$$

$$y = |x-2|-2$$

$$y = ||x-2|-2|$$



$$y = |x^2 - 5|x| + 6|$$

$$y = x^2 - 5x + 6$$

$$y = x^2 - 5|x| + 6$$

$$y = |x^2 - 5|x| + 6|$$

