

# **ГРАФИКИ УРАВНЕНИЙ**

# Преобразование графиков уравнений, содержащих модуль

$$y=f(x)$$

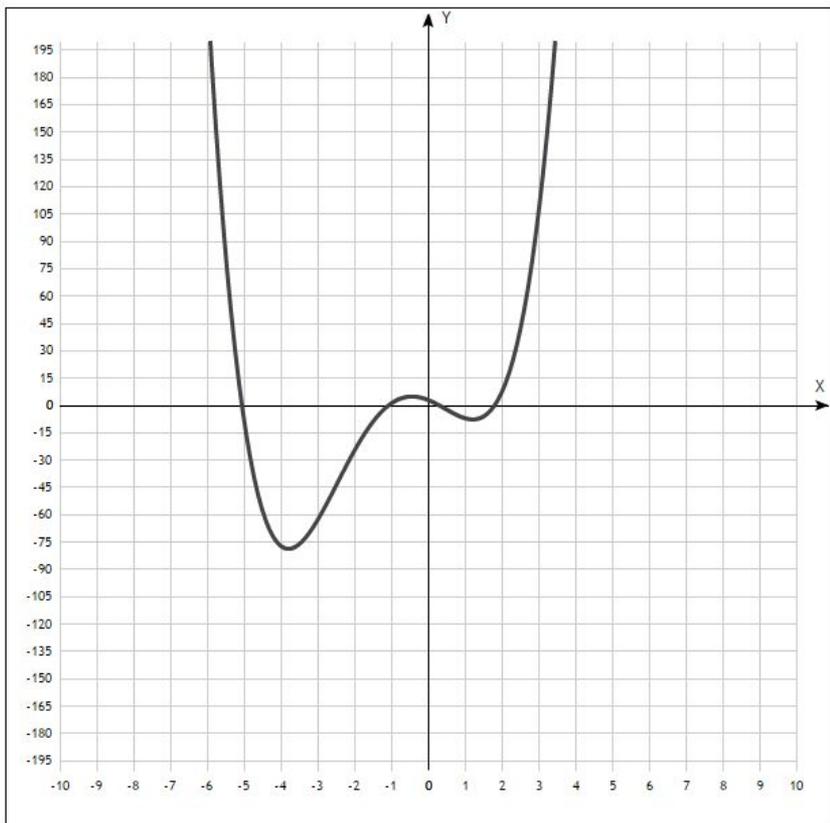
$$y=f(|x|),$$

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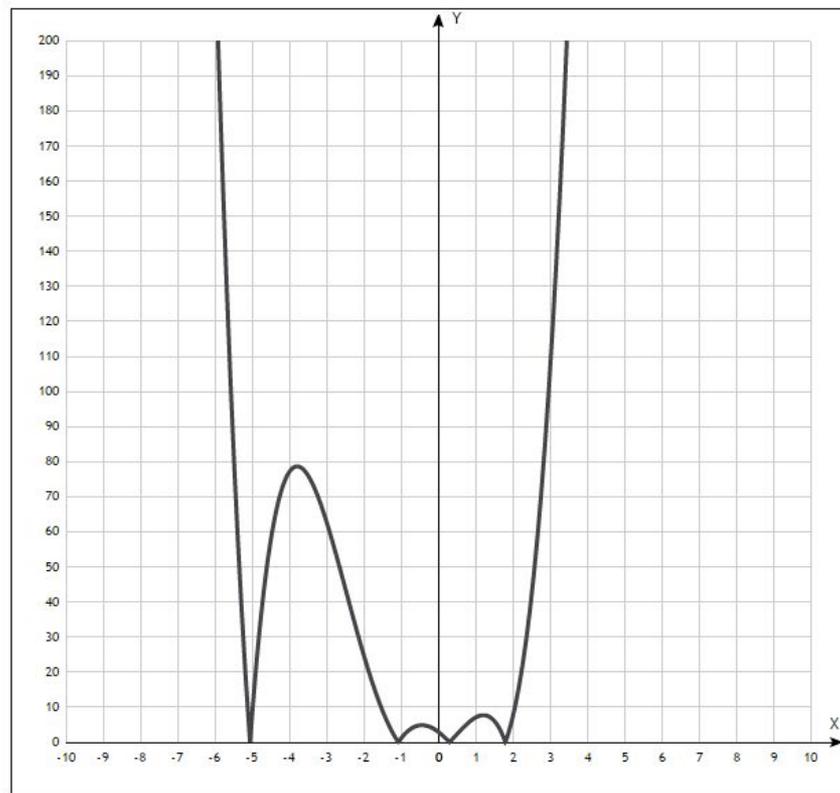
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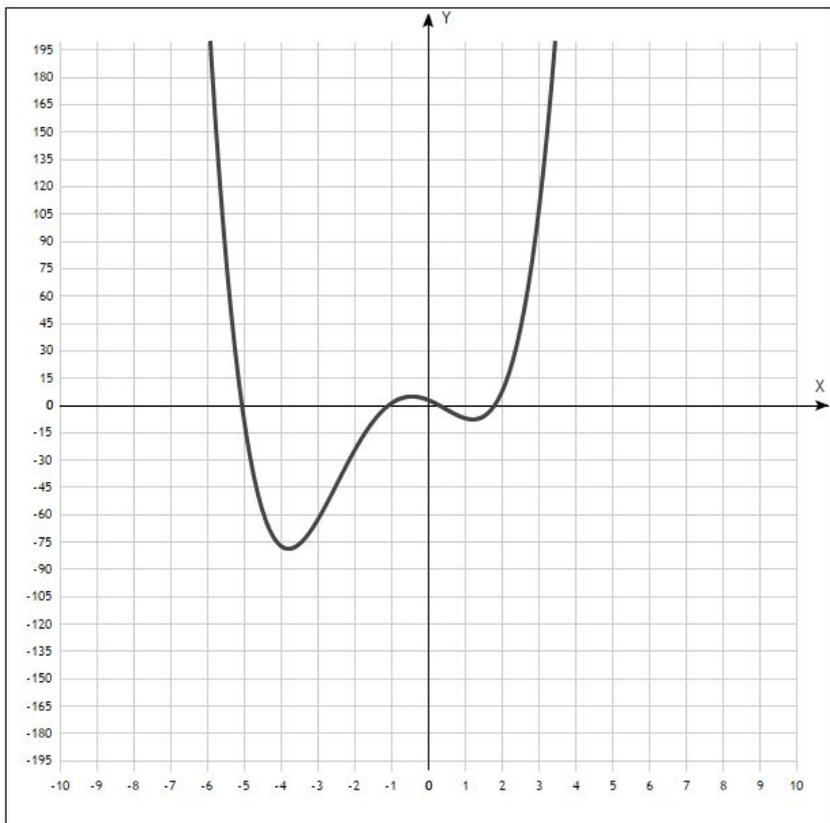
$$|y|=|f(|x|)|$$



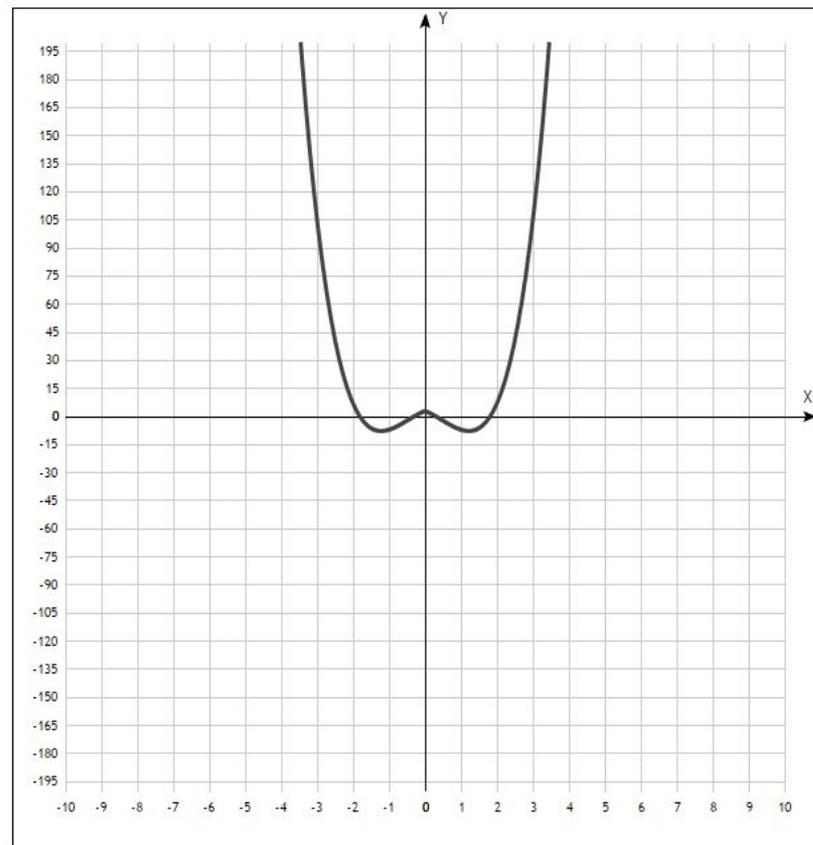
■  $y(x) = x^4 + 4x^3 - 7x^2 - 8x + 3$  [Показать таблицу точек](#)



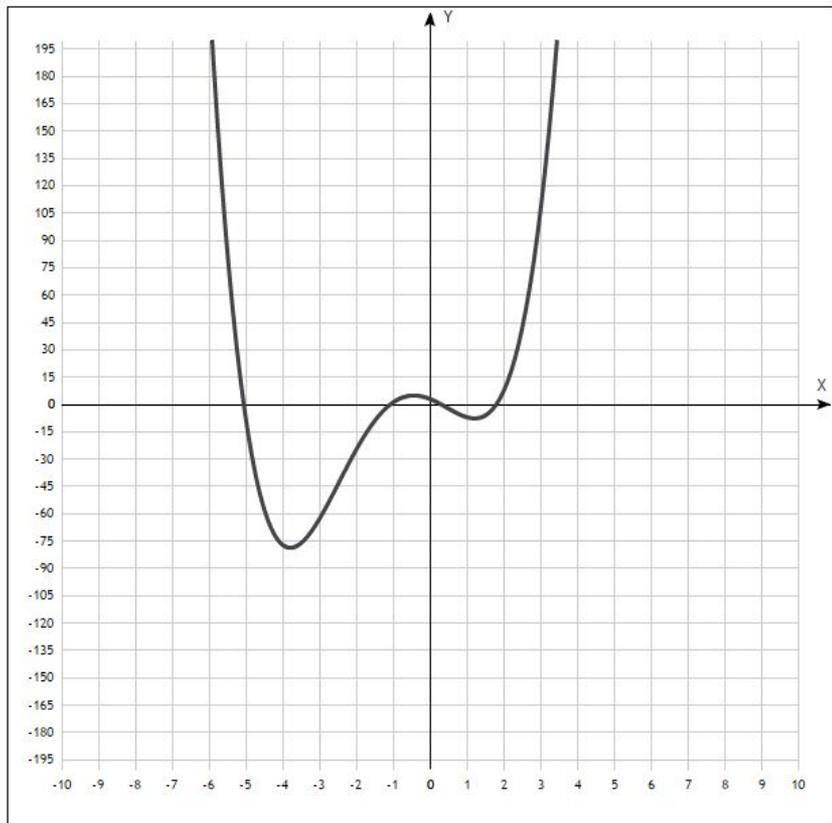
■  $y(x) = |x^4 + 4x^3 - 7x^2 - 8x + 3|$  [Показать таблицу точек](#)



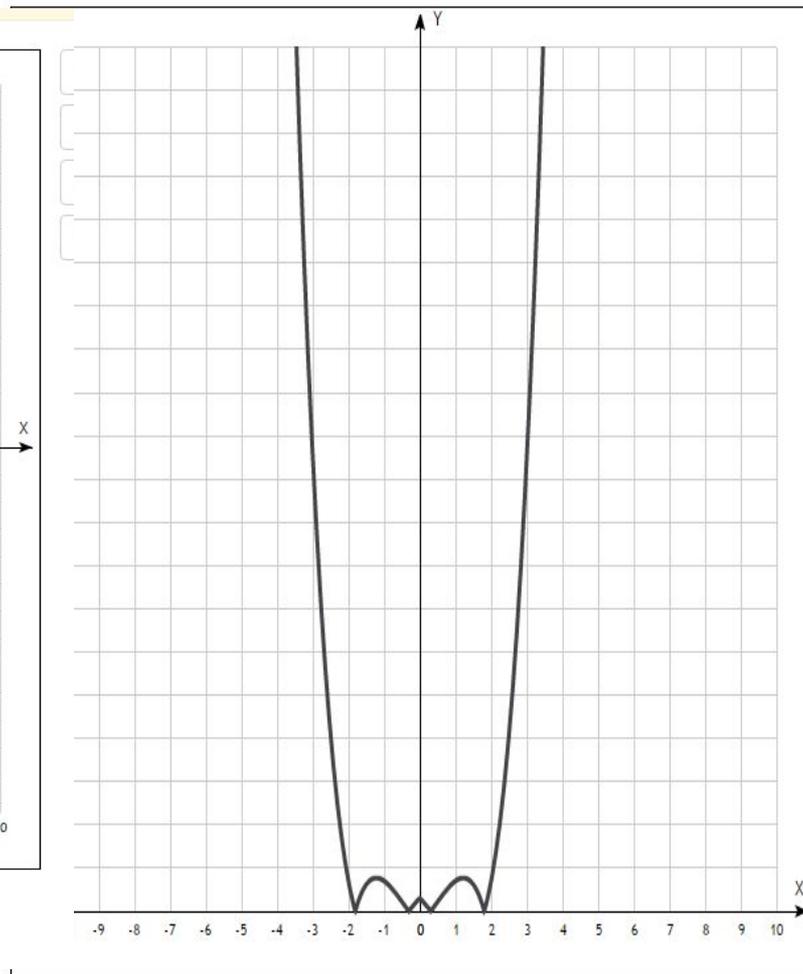
■  $y(x) = x^4 + 4x^3 - 7x^2 - 8x + 3$  [Показать таблицу точек](#)



■  $y(x) = x^4 + 4(|x|)^3 - 7x^2 - 8|x| + 3$  [Показать таблицу точек](#)



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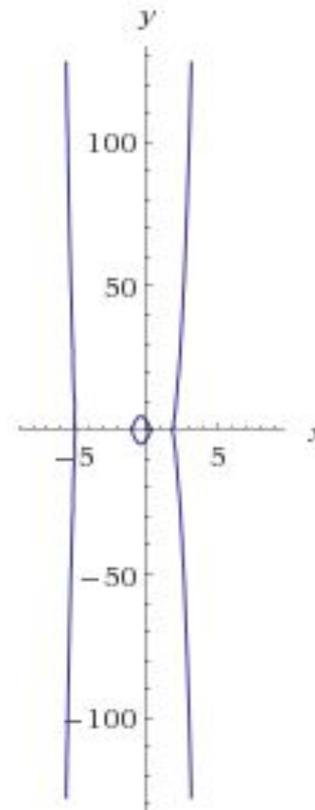
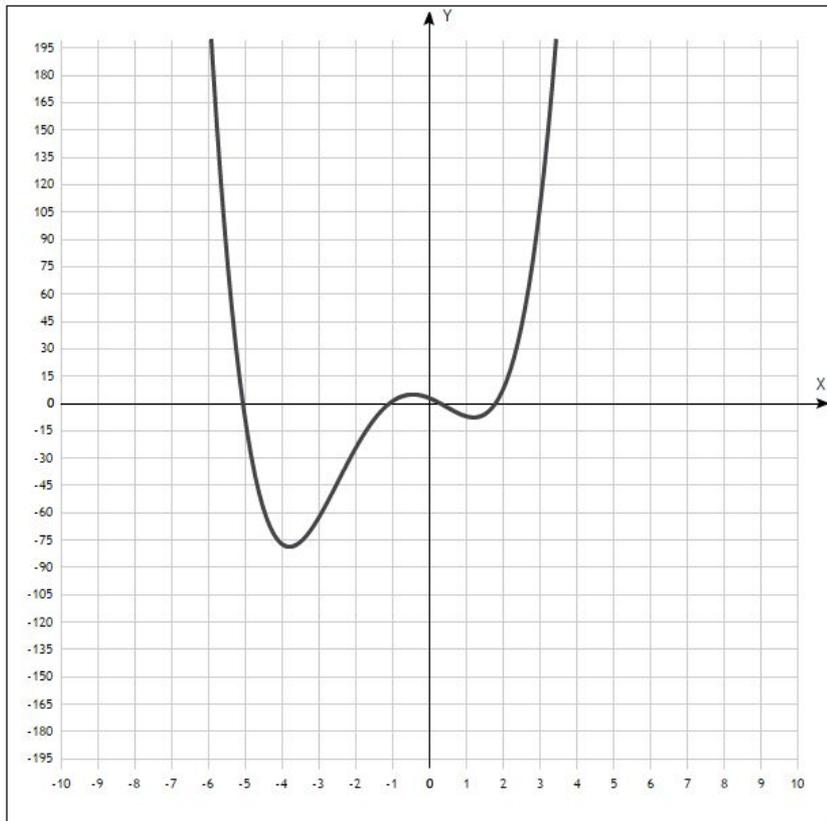


■  $y(x) = |x^4 + 4(|x|)^3 - 7x^2 - 8|x| + 3|$  [Показать таблицу точек](#)

plot

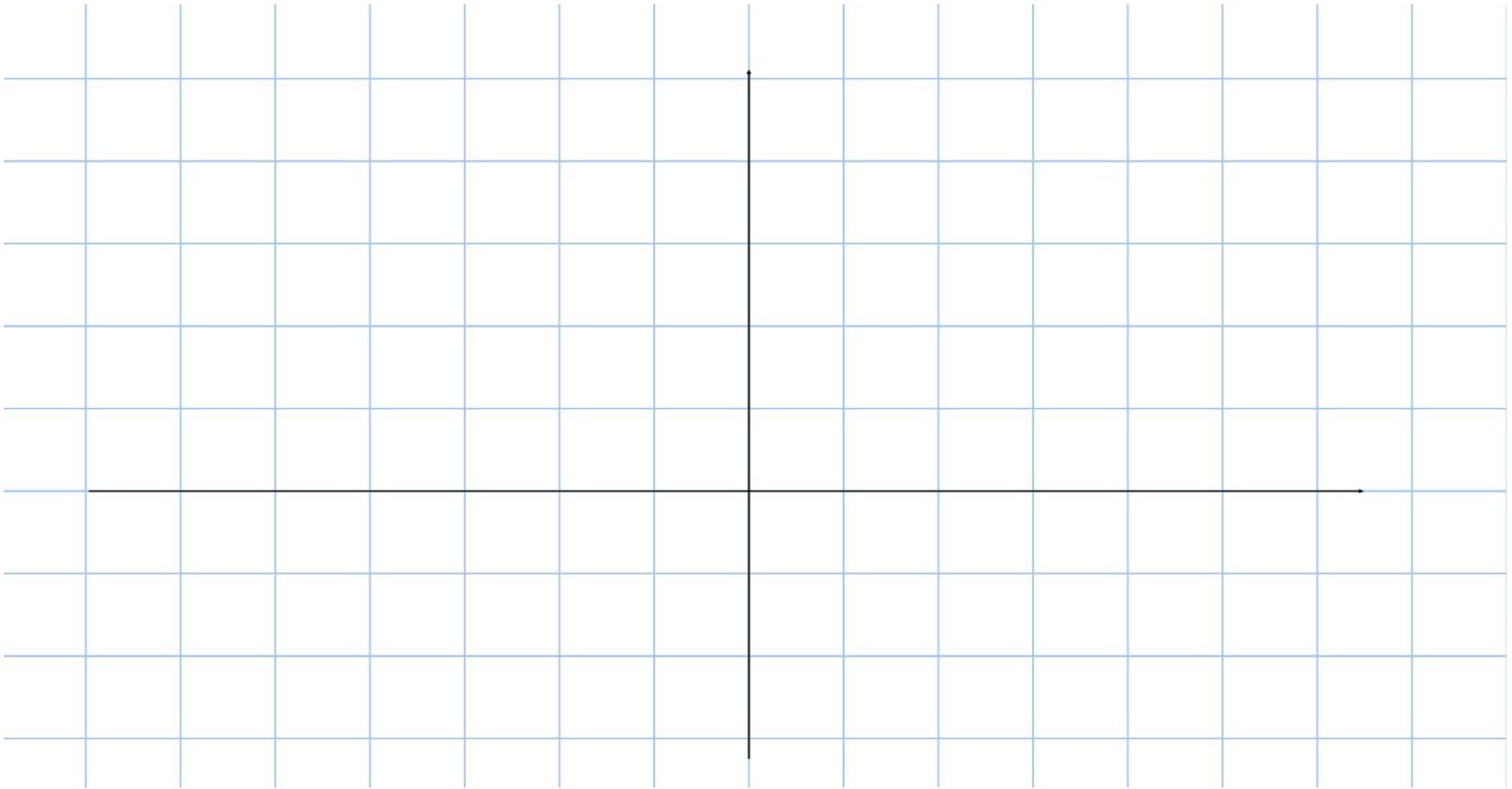
$$|y| = x^4 + 4x^3 - 7x^2 - 8x + 3$$

Implicit plot:



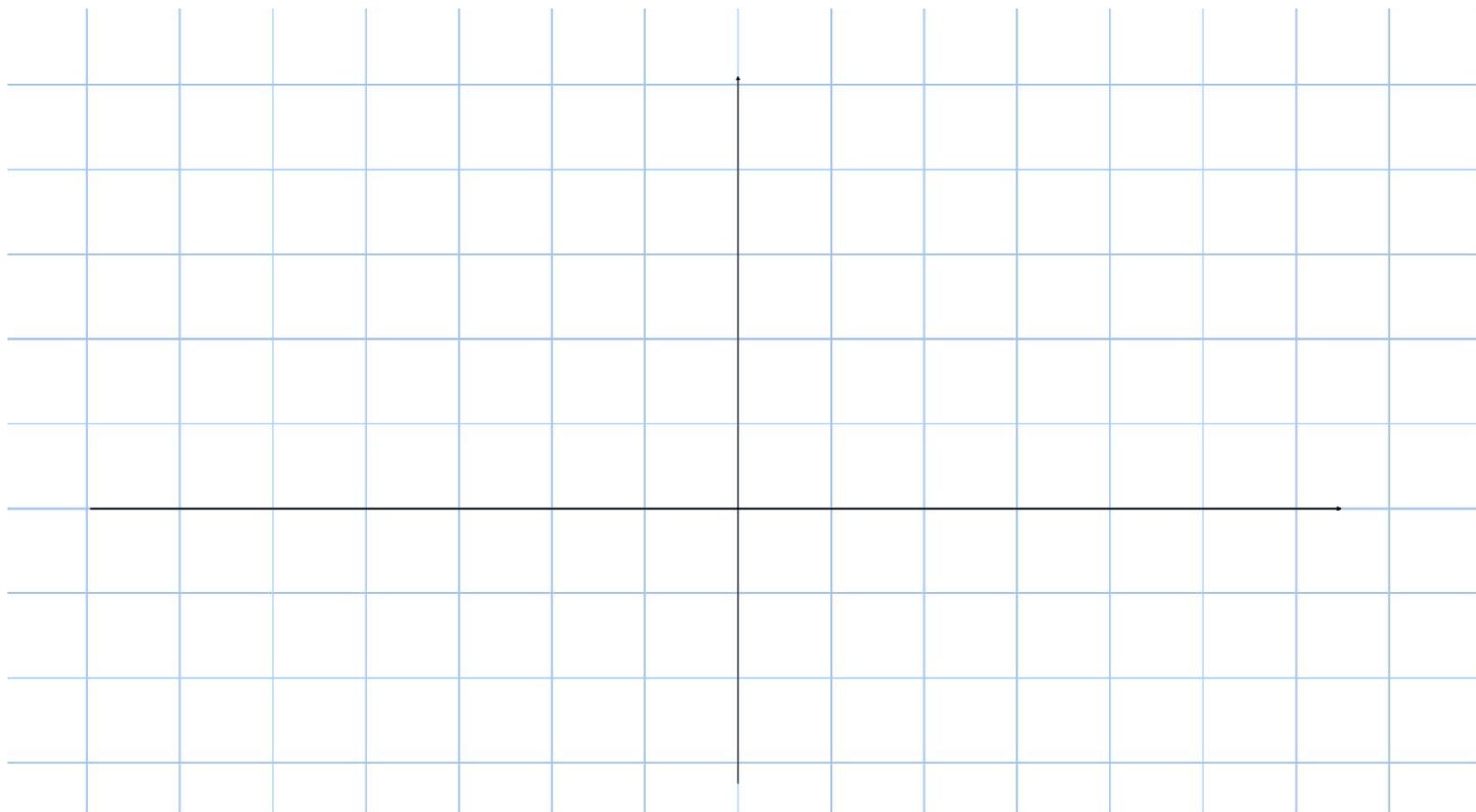
■  $y(x) = x^4 + 4x^3 - 7x^2 - 8x + 3$  [Показать таблицу точек](#)

Построить график функции  $y = ||x| - 1|$



Построить график функции

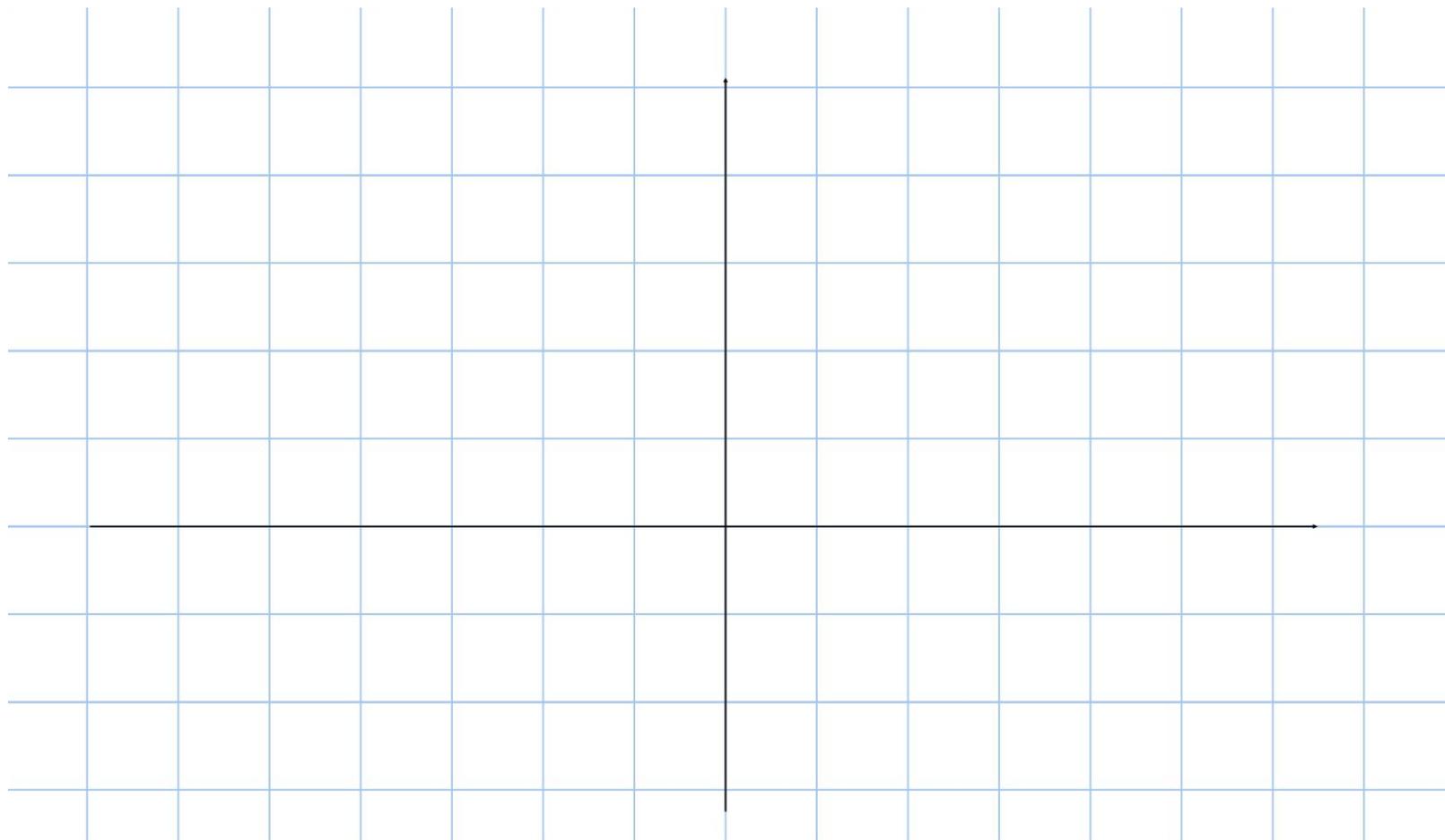
$$y = |x^2 - 6|x| + 5|$$



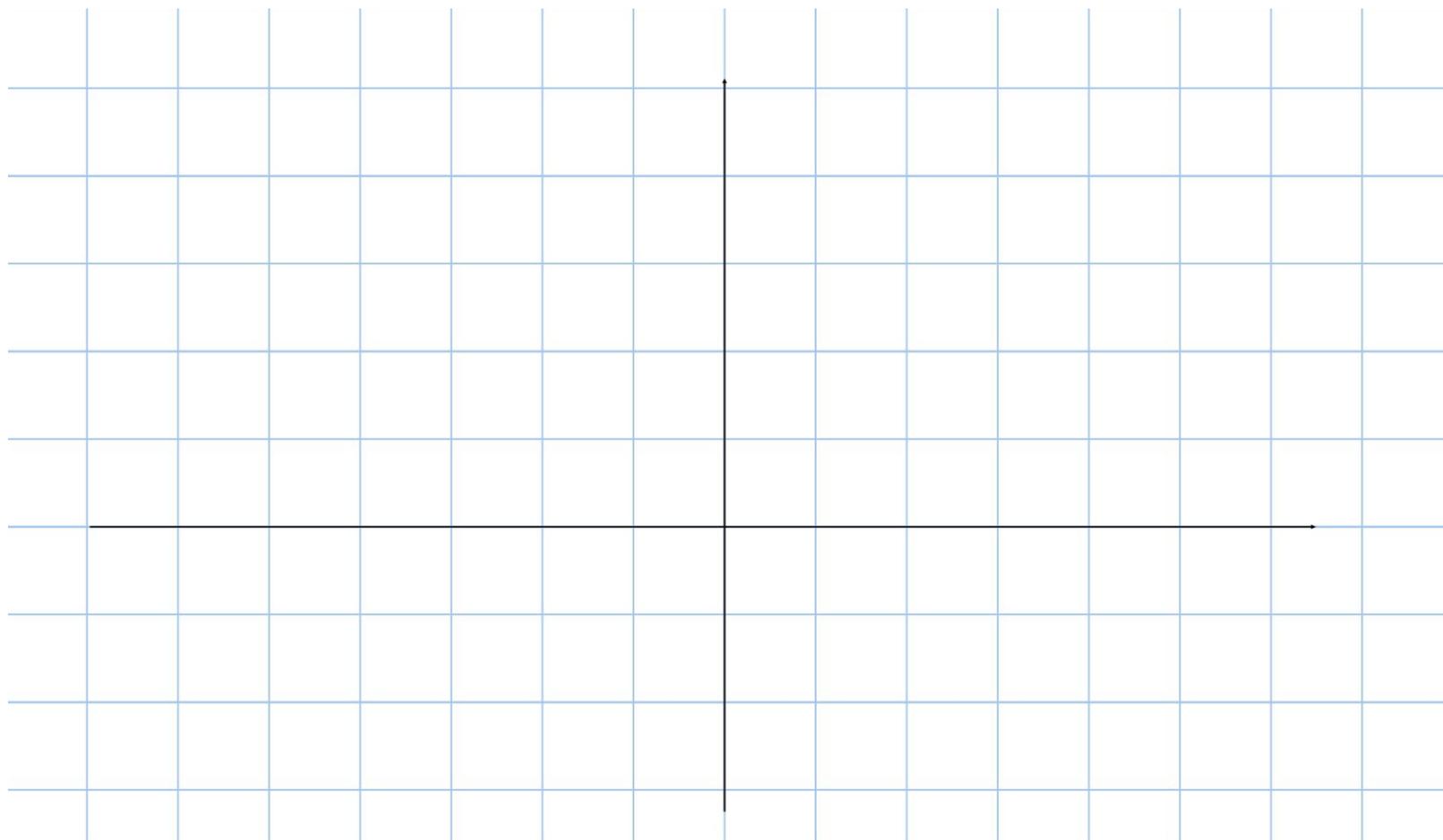
Построить график уравнения

$$|x| + |y| = 3;$$

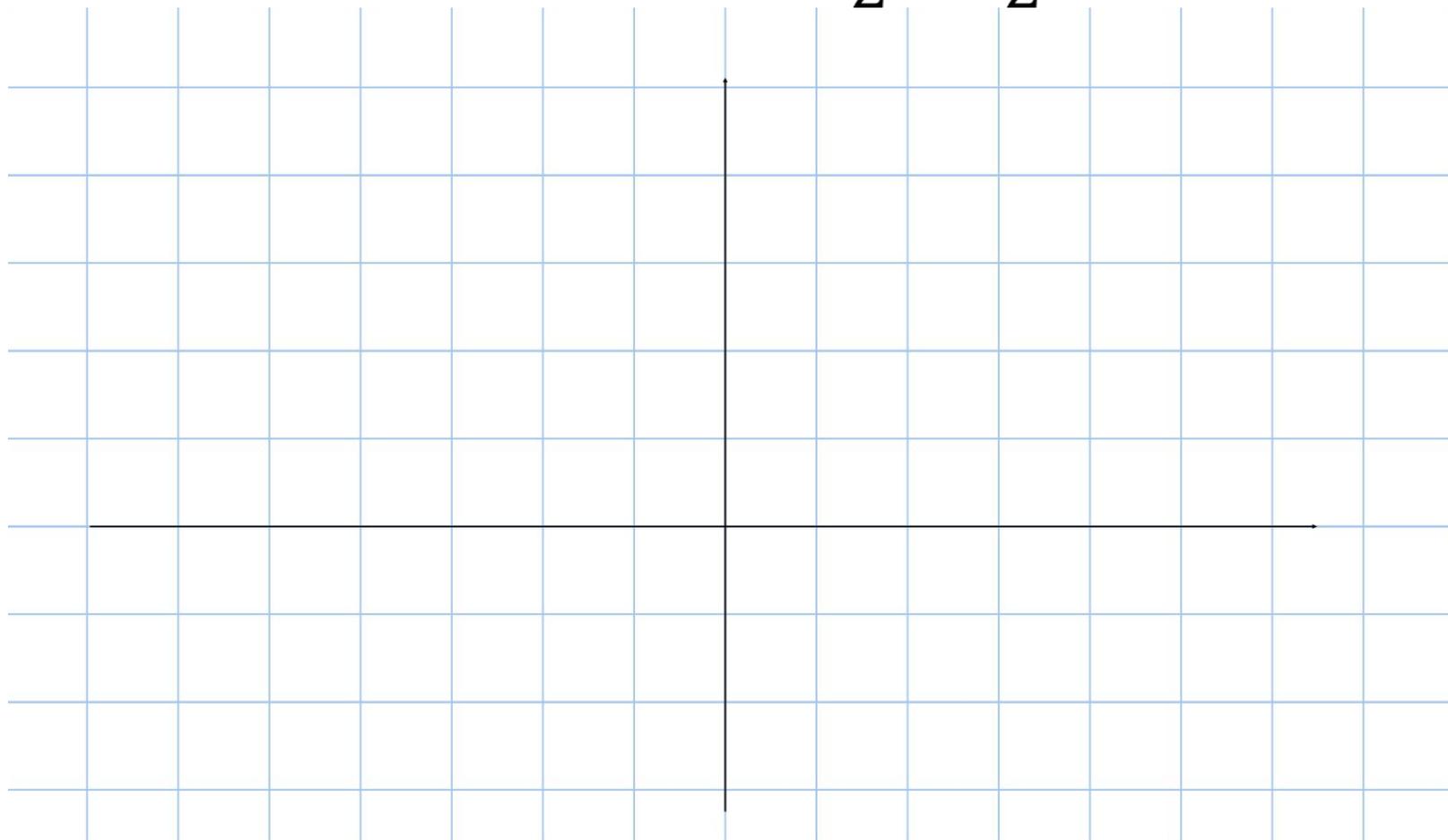
$$|x| + |y - 3| = 3$$



Построить график уравнения  
 $|x| - |y| = 3$



$$||x|+|y|-\frac{3}{2}|=\frac{1}{2}$$

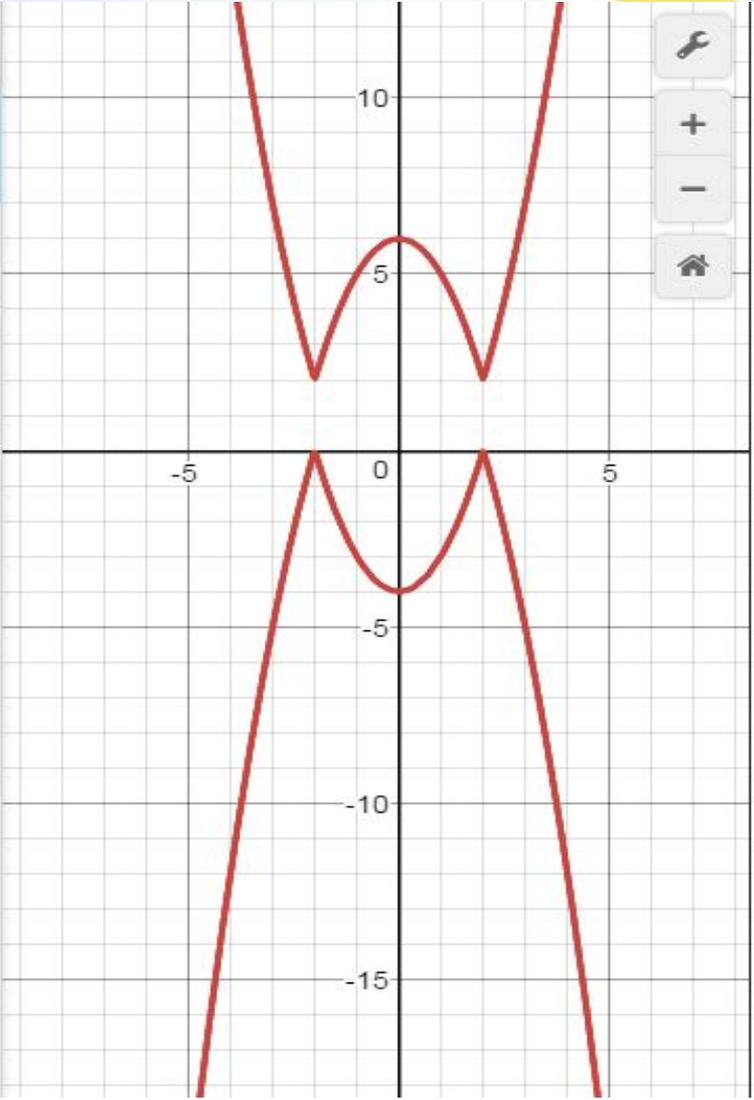


Построить график уравнения

$$|y - 1| = 1 + |x^2 - 4|$$

Graphing calculator interface showing a list of equations:

- 1  $|y - 1| = |x^2 - 4| + 1$
- 2
- 3



Построить график уравнения

$$|x| + |y - 3| = 1$$



$$||y - 3| - 3| + ||x - 1| - 3| = 4$$

