

Преобразования графиков функций

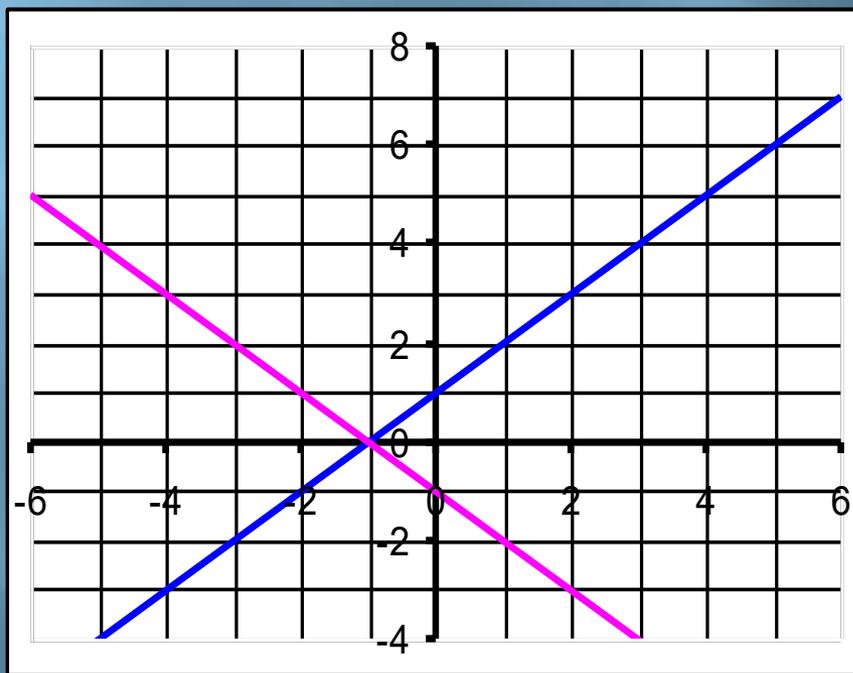
(презентация к исследовательской
работе)

Выполнила: Клементенок
Алена, ученица 10 класса

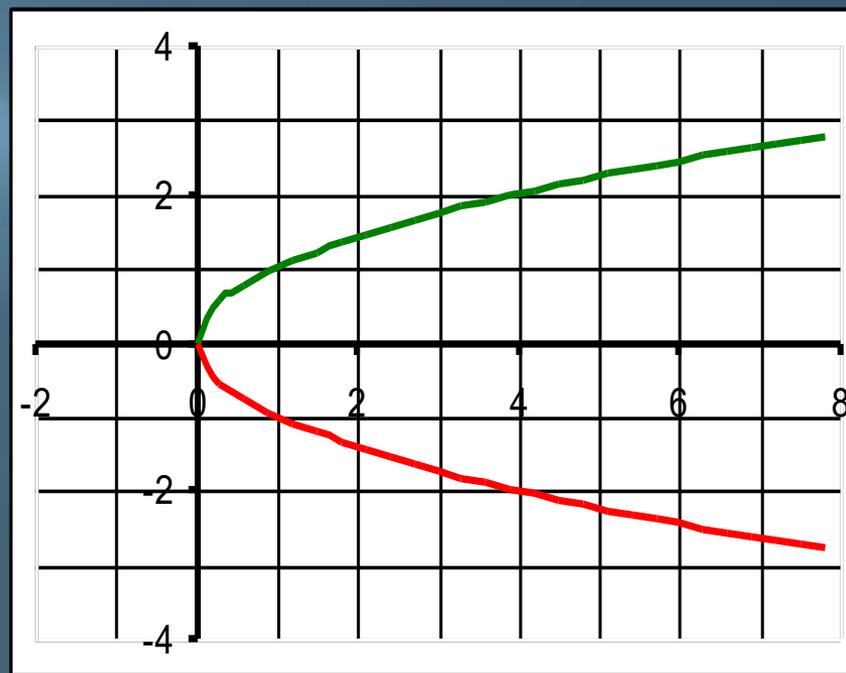
МКОУ «Предивинская СОШ»
2022г

СИММЕТРИЯ ОТНОСИТЕЛЬНО ОСИ OX

$$y = x + 1; \quad y = -(x + 1)$$

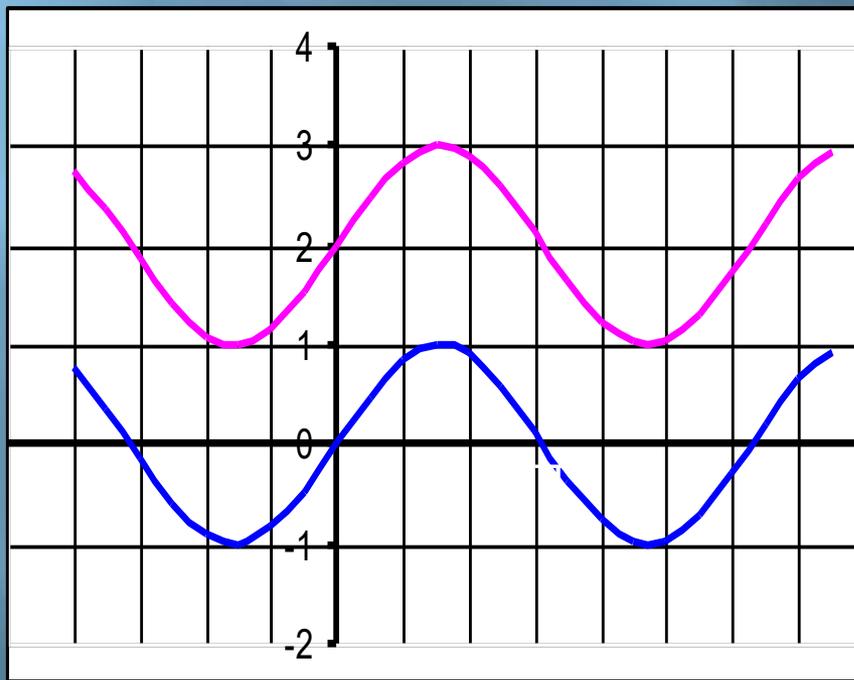


$$y = \sqrt{x}; \quad y = -\sqrt{x}$$

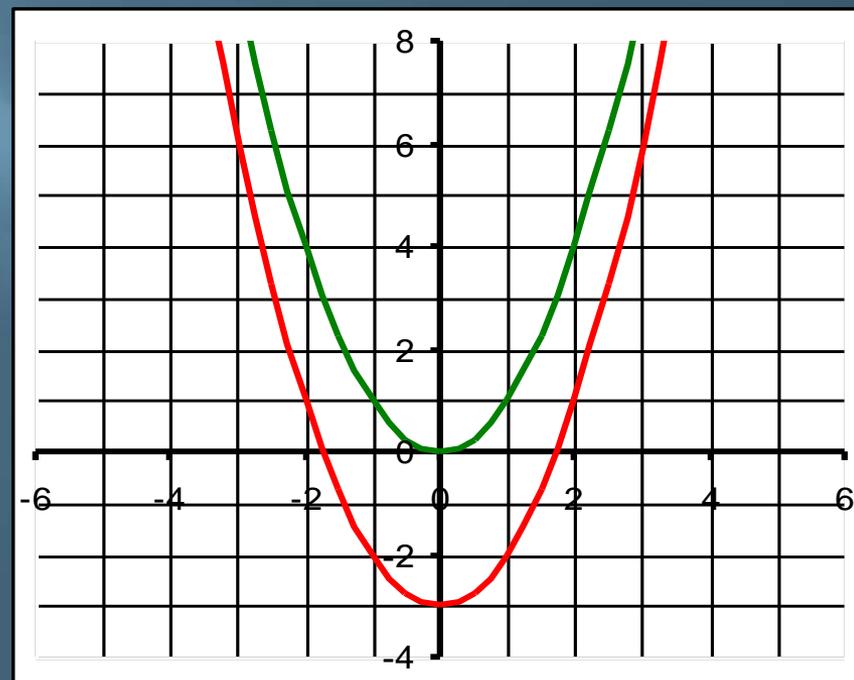


СДВИГ ВДОЛЬ ОСИ ОУ

$$y = \sin x; \quad y = \sin x + 2$$

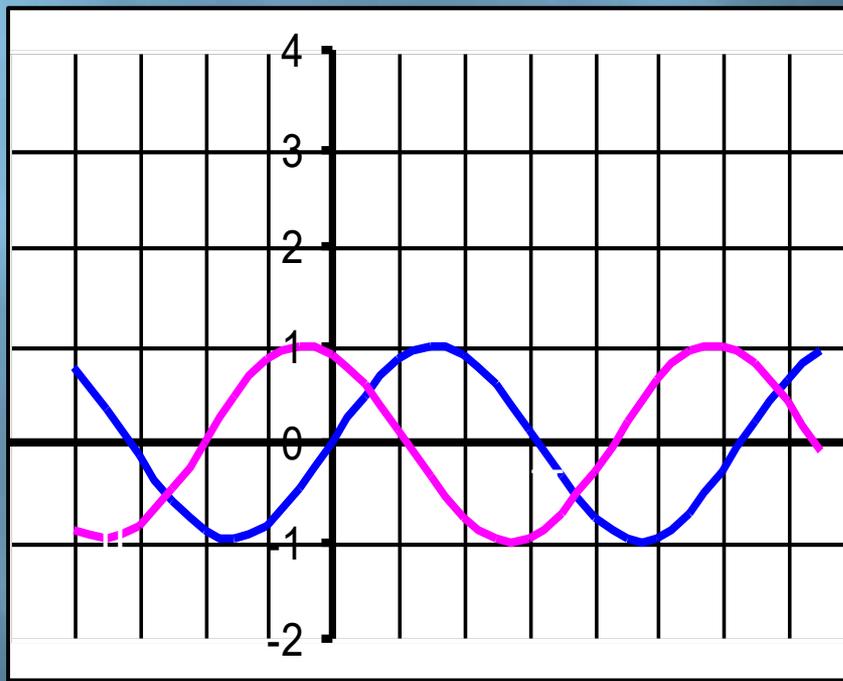


$$y = x^2; \quad y = x^2 - 3$$

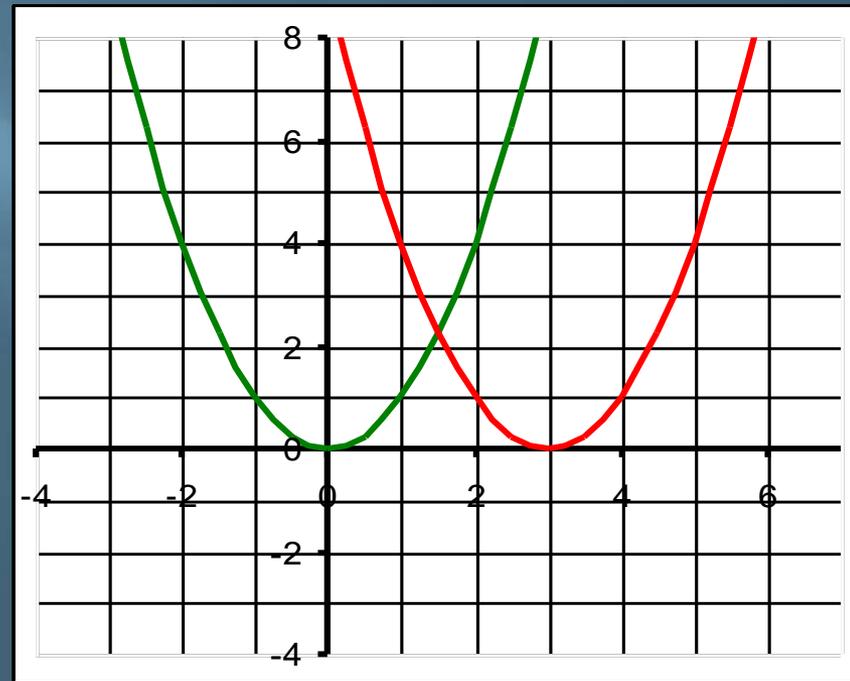


СДВИГ ВДОЛЬ ОСИ ОХ

$$y = \sin x; y = \sin(x+2)$$

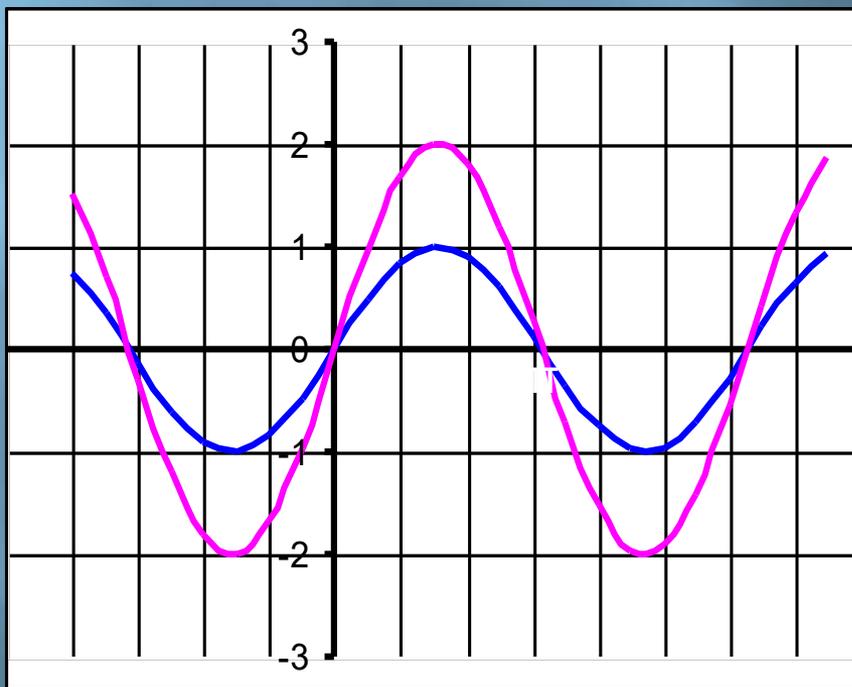


$$y = x^2; y = (x-3)^2$$

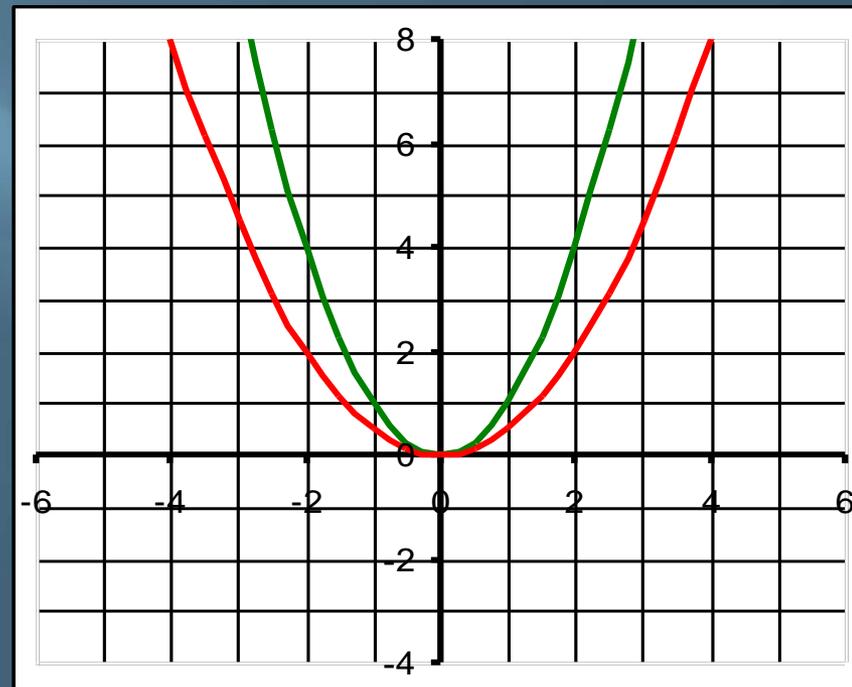


РАСТЯЖЕНИЕ ВДОЛЬ ОСИ ОУ

$$y = \sin x; \quad y = 2 \sin x$$

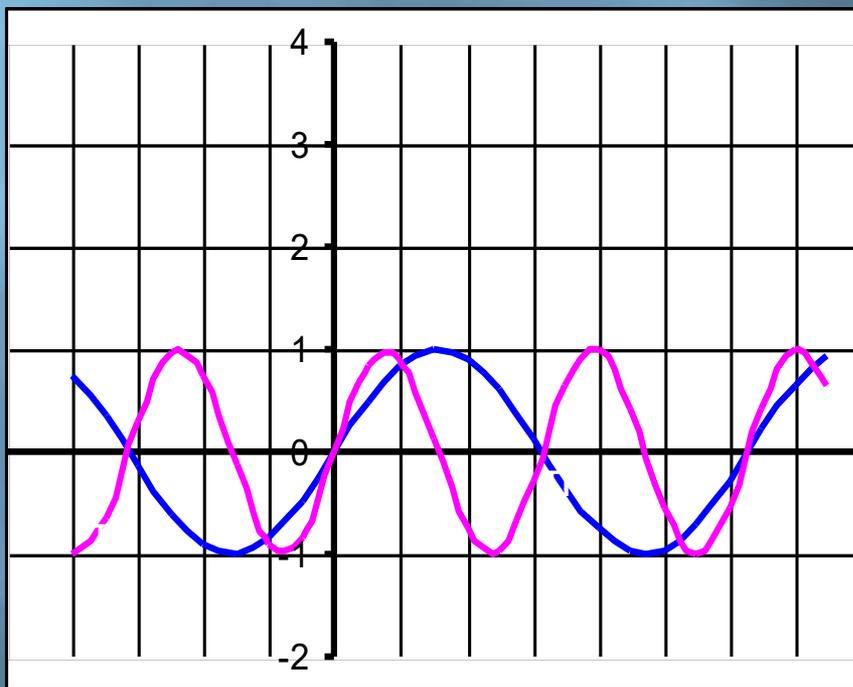


$$y = x^2; \quad y = 0,5x^2$$

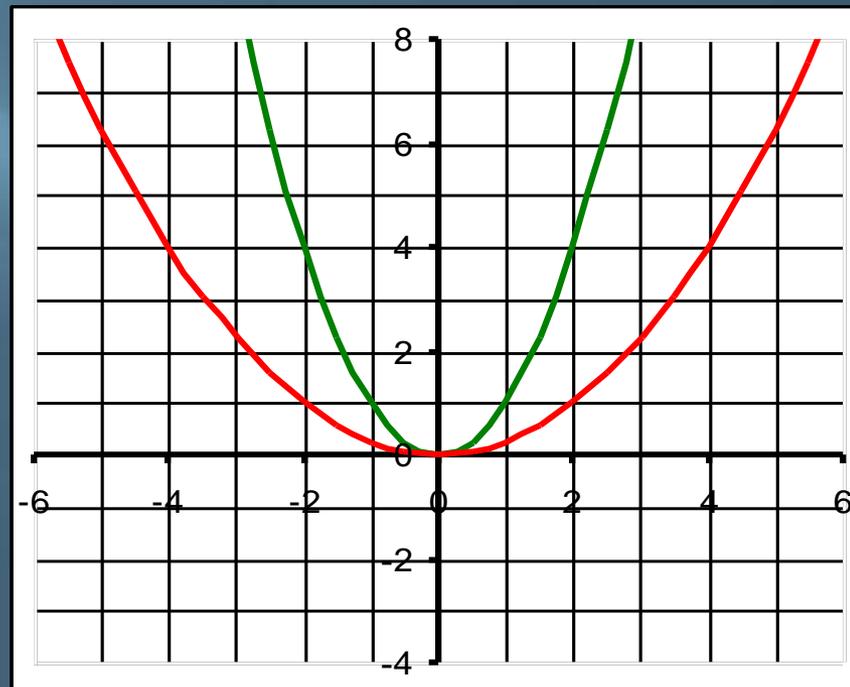


РАСТЯЖЕНИЕ ВДОЛЬ ОСИ ОХ

$$y = \sin x; \quad y = \sin 2x$$

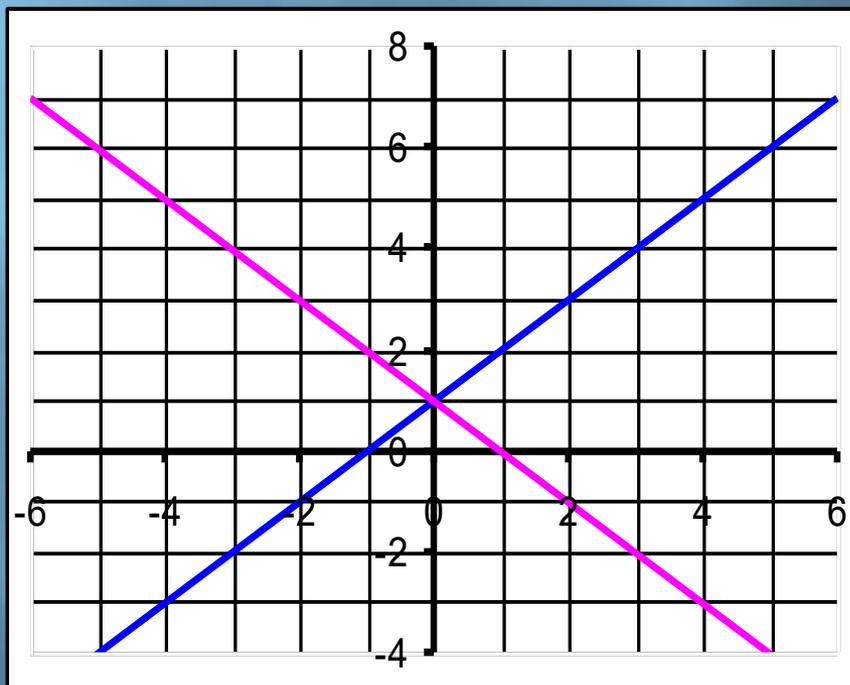


$$y = x^2; \quad y = (0,5x)^2$$

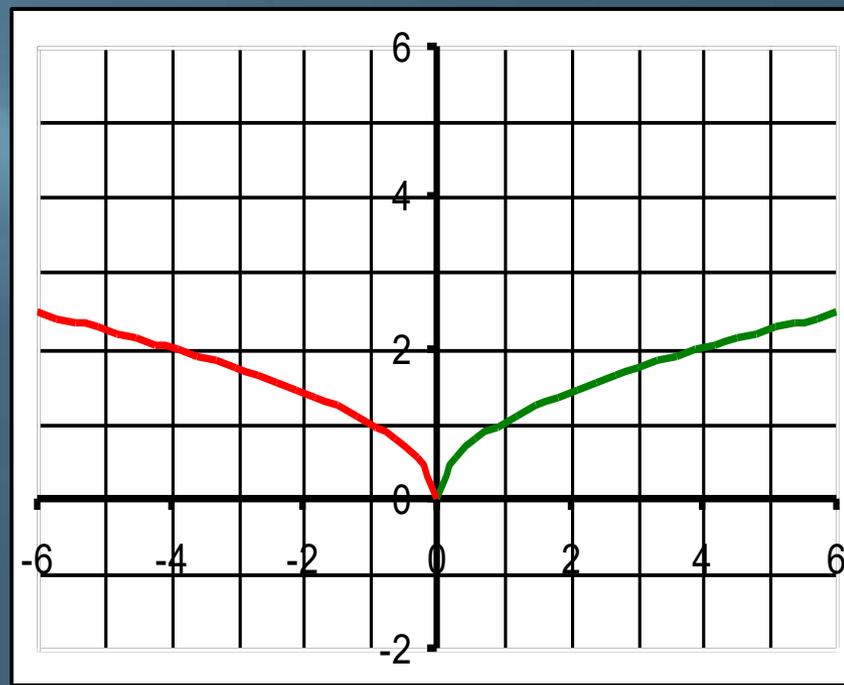


СИММЕТРИЯ ОТНОСИТЕЛЬНО ОСИ ОУ

$$y = x + 1; \quad y = -x + 1$$

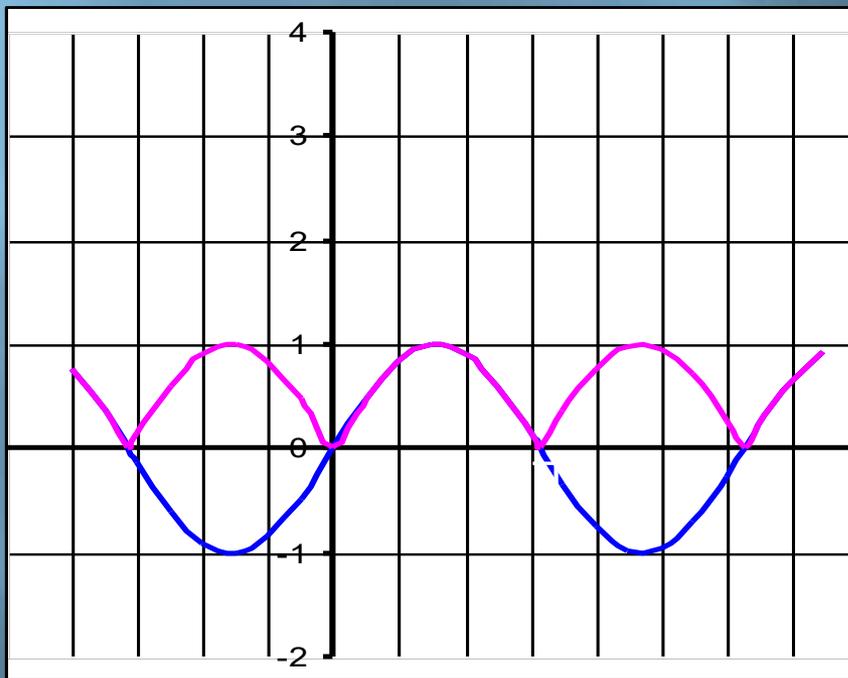


$$y = \sqrt{x}; \quad y = \sqrt{-x}$$

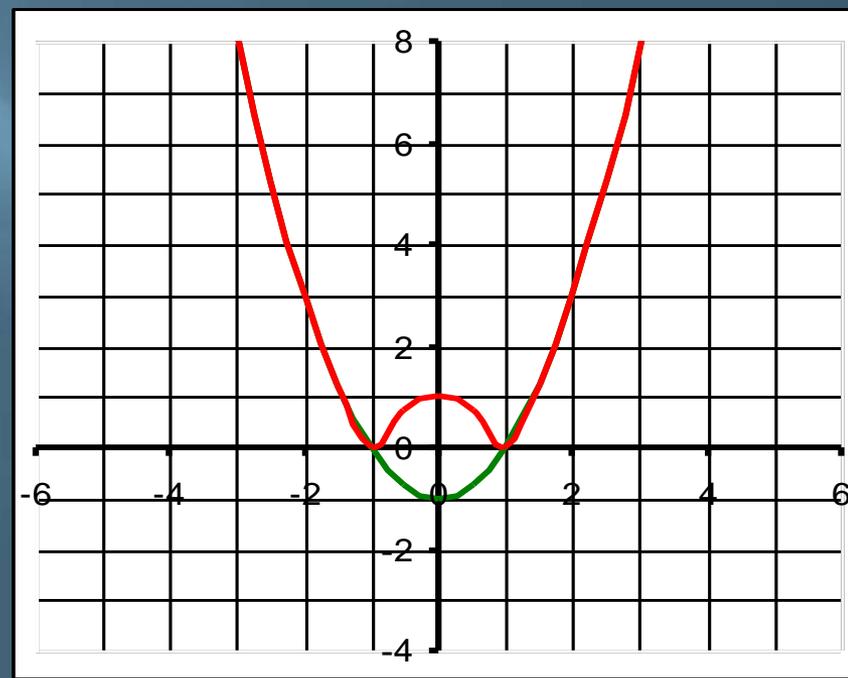


ГРАФИКИ ФУНКЦИЙ, СТОЯЩИХ ПОД ЗНАКОМ МОДУЛЯ

$$y = \sin x; \quad y = |\sin x|$$

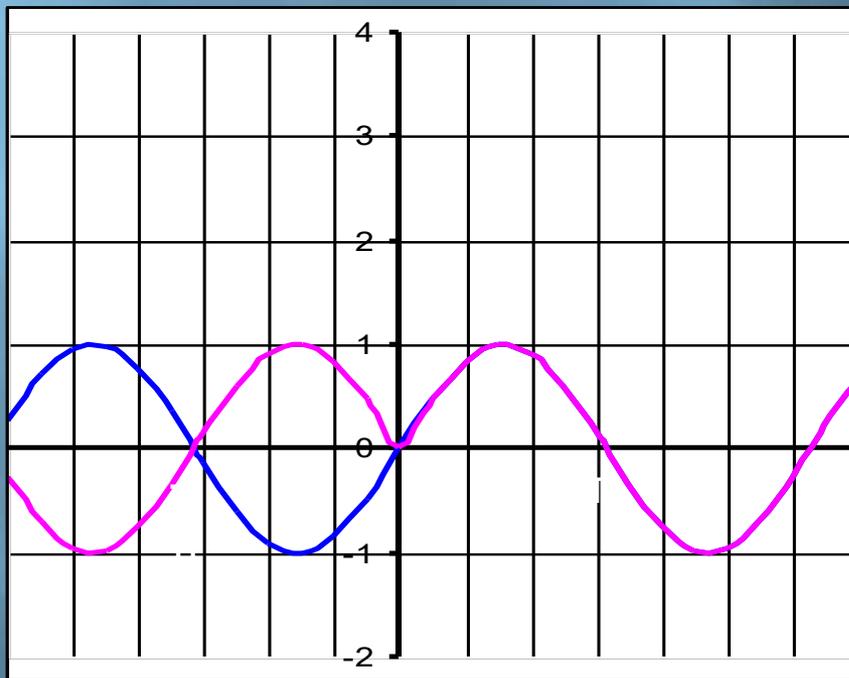


$$y = x^2 - 1; \quad y = |x^2 - 1|$$



ГРАФИКИ ФУНКЦИЙ С АРГУМЕНТОМ, СТОЯЩИМ ПОД ЗНАКОМ МОДУЛЯ

$$y = \sin x; \quad y = \sin |x|$$



$$y = (x-1)^2; \quad y = (|x|-1)^2$$

