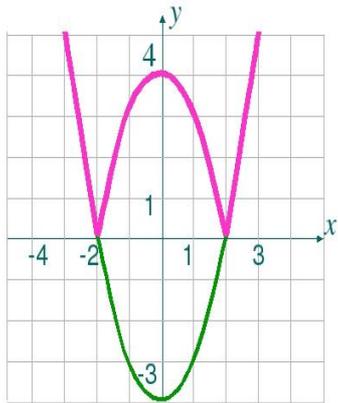


Урок алгебры в 9 классе

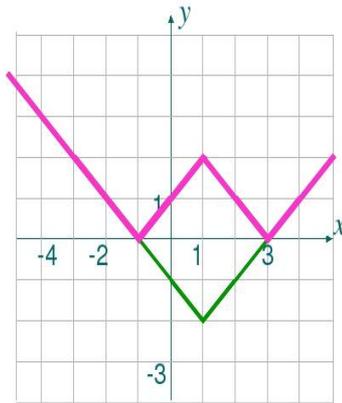
# «ПОСТРОЕНИЕ ГРАФИКОВ ФУНКЦИЙ

## $y=|f(x)|$ и $y=f(|x|)$

$$y = x^2 - 4; \quad y = |x^2 - 4|$$

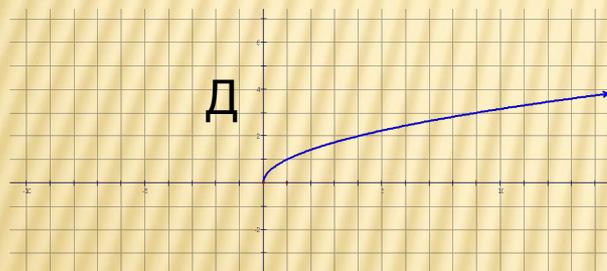
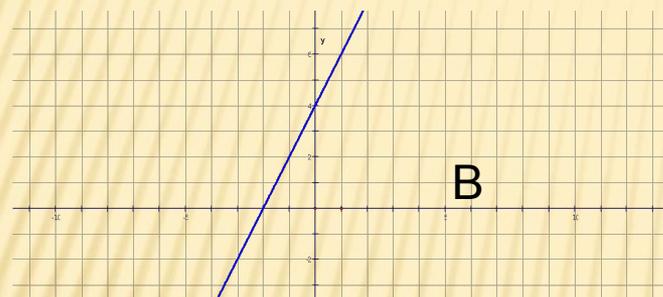
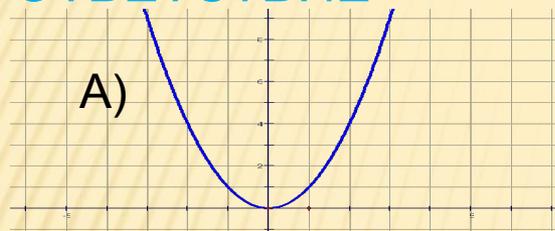


$$y = |x - 1| - 2; \quad y = ||x - 1| - 2|$$

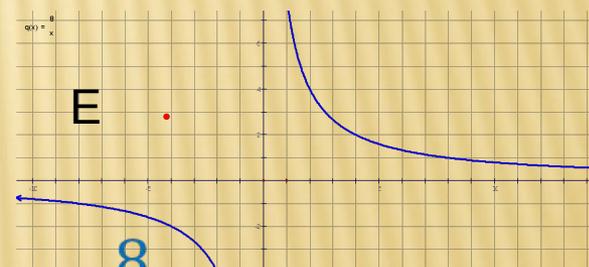
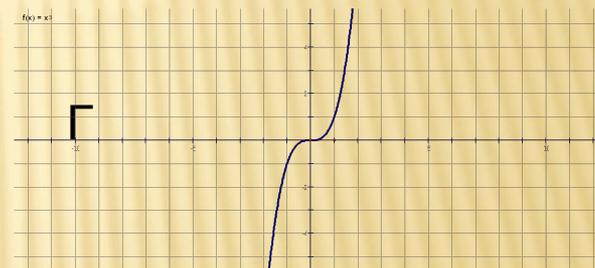
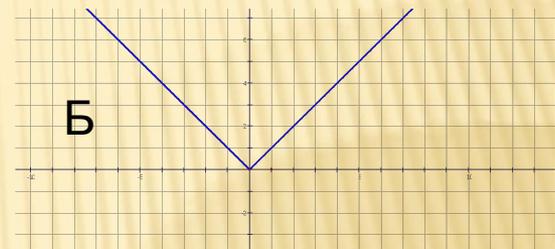


Учитель математики Бурмистрова Т.В.  
МБОУ «СОШ №5» Ступино

ПОСТАВЬТЕ В  
СООТВЕТСТВИЕ



КАЖДОМУ ГРАФИКУ ФУНКЦИЮ



1)  $y = \sqrt{x}$

2)  $y = 2x + 4$

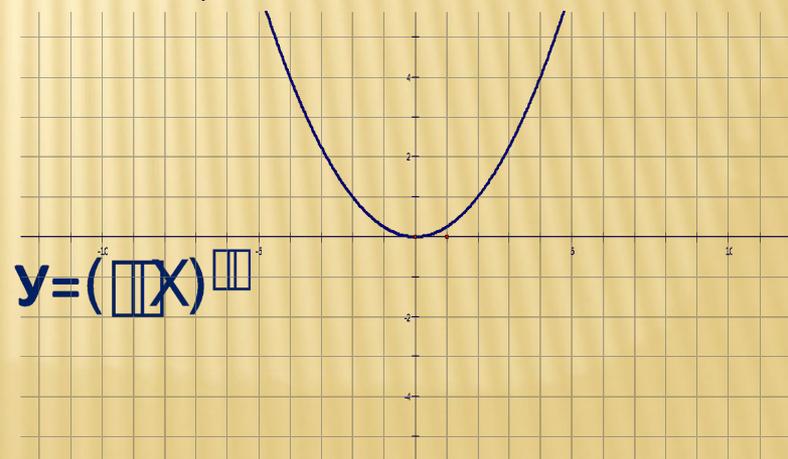
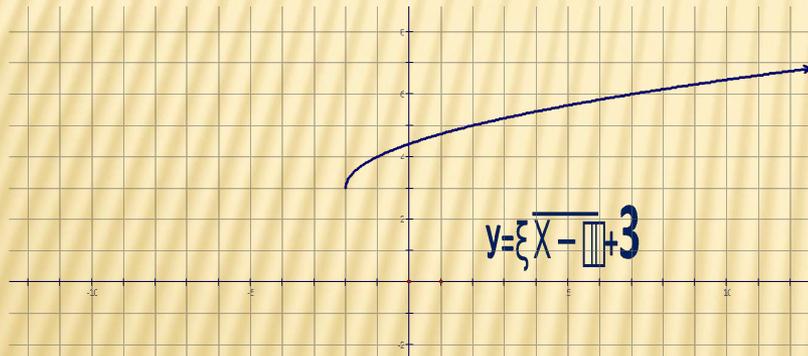
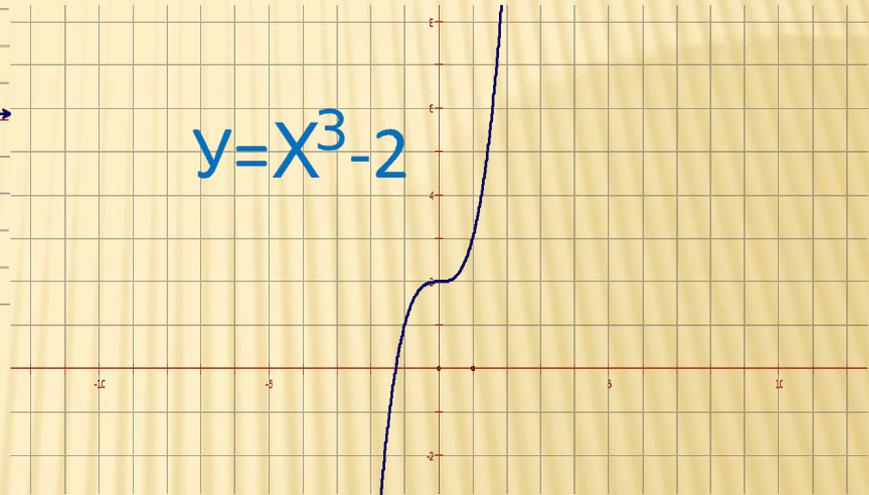
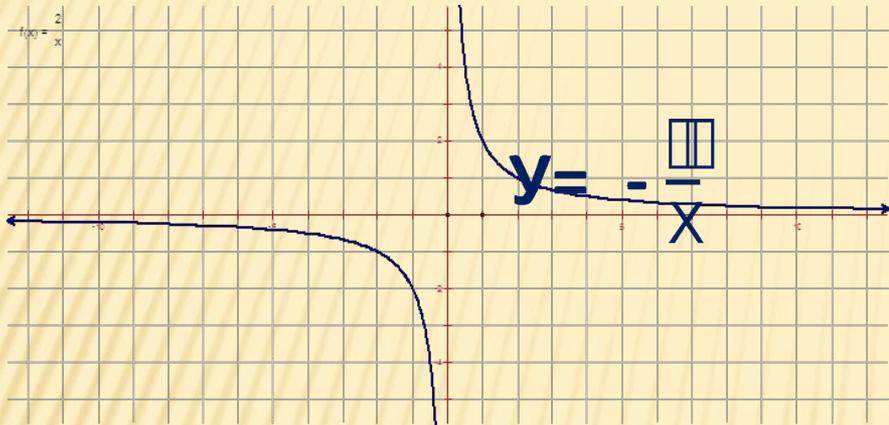
3)  $y = \frac{8}{x}$

4)  $y = x^2$

5)  $y = |x|$

6)  $y = x^3$

# НАЙДИТЕ ОШИБКУ



# ФУНКЦИИ ВИДА: $y=|f(x)|$ и $y=f(|x|)$

---

$$1) y = |x| + 4$$

$$2) y = |x^3 - 7|$$

$$3) y = \sqrt{x^2 - 12} + 5$$

$$4) y = |x^2 + 4|x| - 9|$$

$$5) y = \frac{78}{x^2 + 3}$$

$$6) y = \left| \frac{83}{x - 67} \right|$$

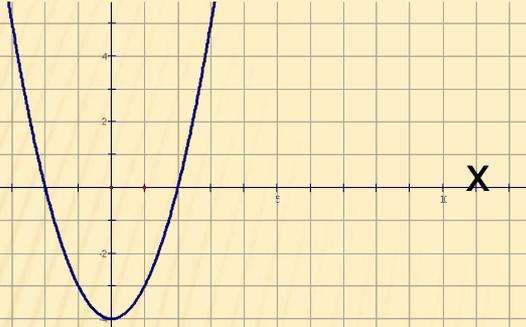
$$7) y = |\sqrt{x^2 - 12} - 5|$$

$$8) y = |x|^3 + 15$$

$$y=f(x)$$

$$h(x) = x^2 - 4$$

1



2



$$f(x) = \frac{5}{x-3} - 1$$

3



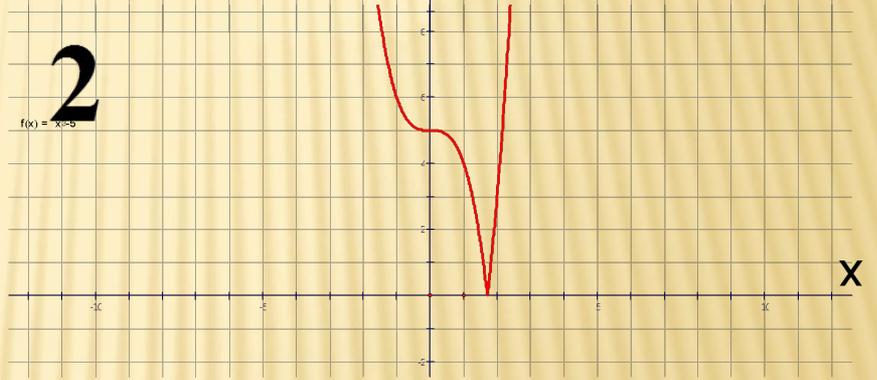
$$y=|f(x)|$$

$$h(x) = x^2 - 4$$

1

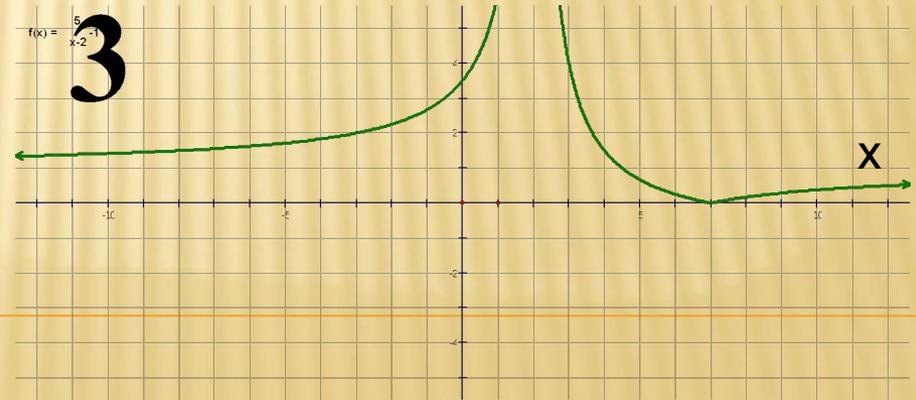


2



$$f(x) = \frac{5}{x-3} - 1$$

3

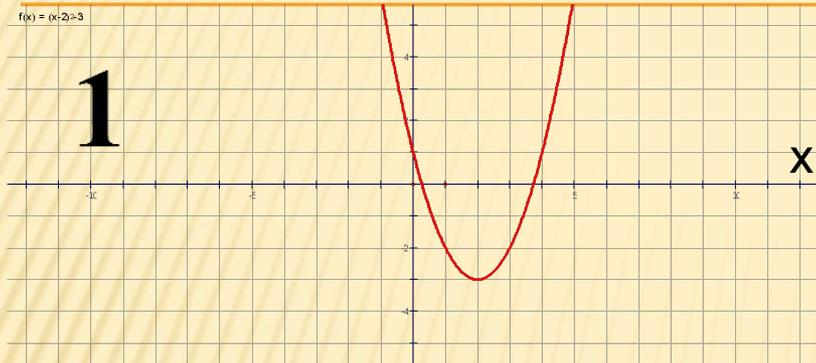


# $y=f(x)$

# $y = f(|x|)$

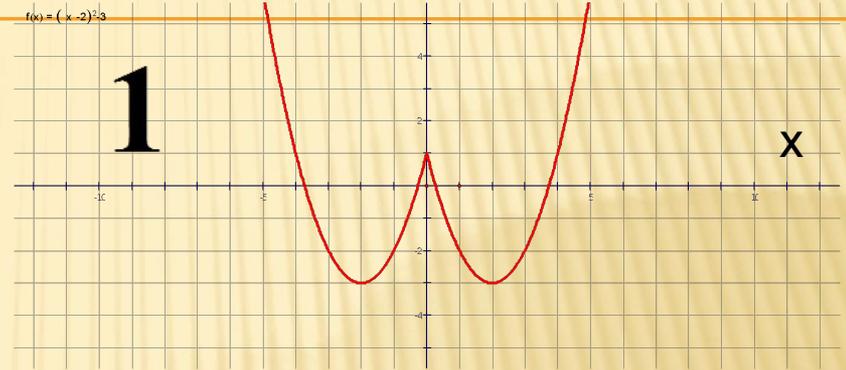
$f(x) = (x-2)^2 - 3$

# 1



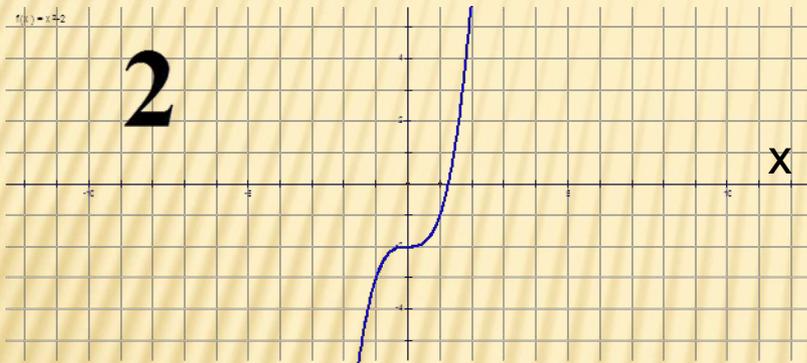
$f(x) = (|x-2|)^2 - 3$

# 1



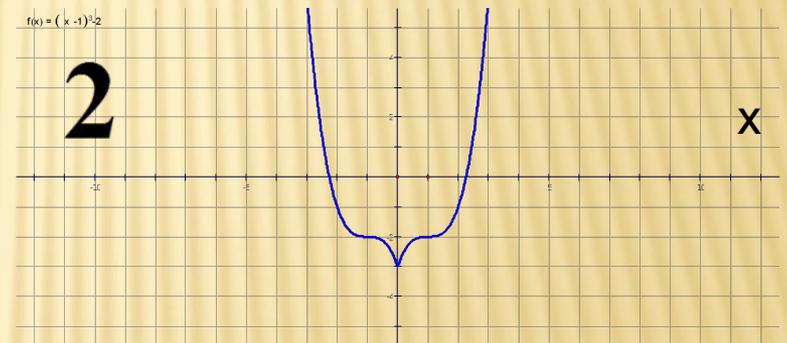
$f(x) = x^3 - 2$

# 2



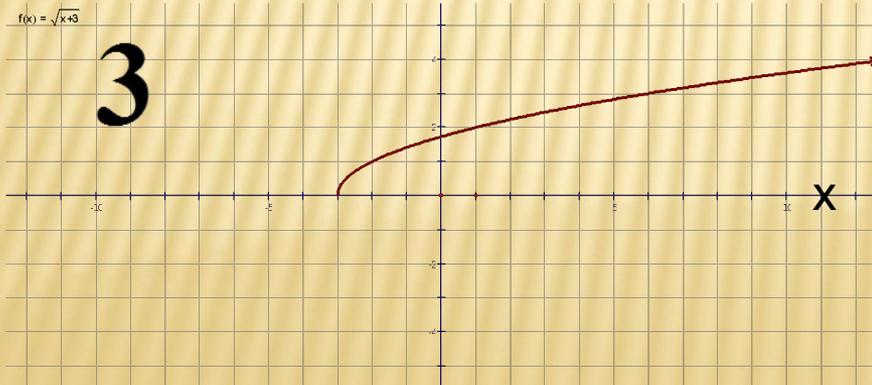
$f(x) = (|x-1|)^3 - 2$

# 2



$f(x) = \sqrt{x+3}$

# 3



$f(x) = \sqrt{|x+3|}$

# 3

