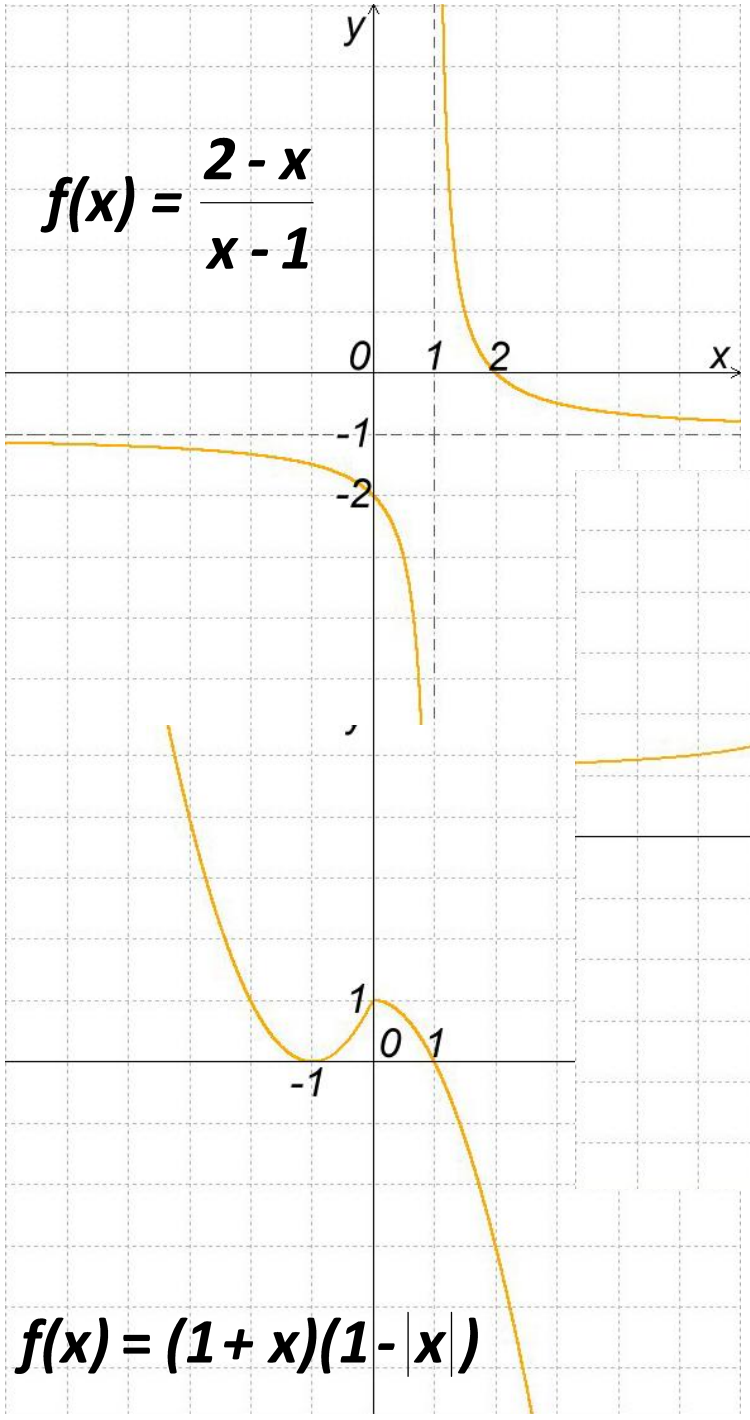
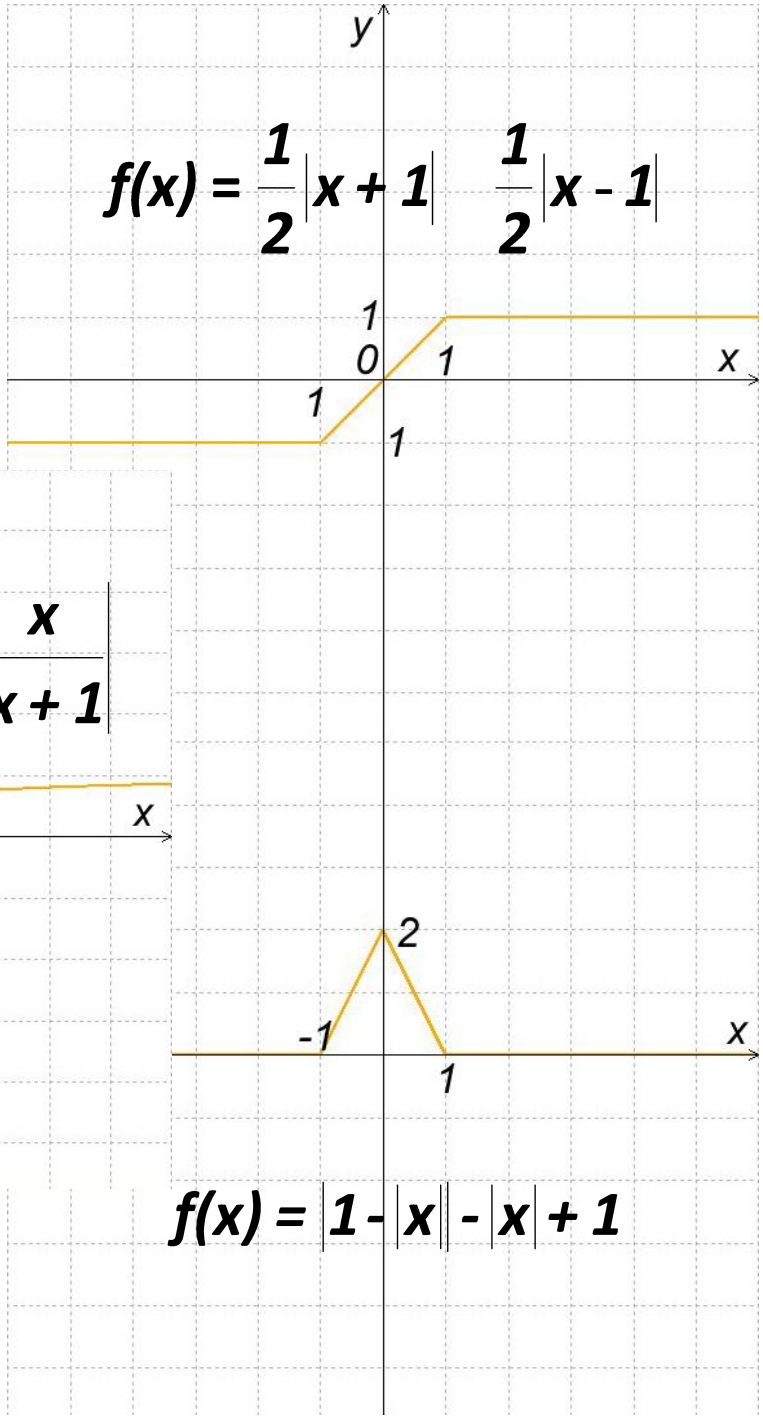
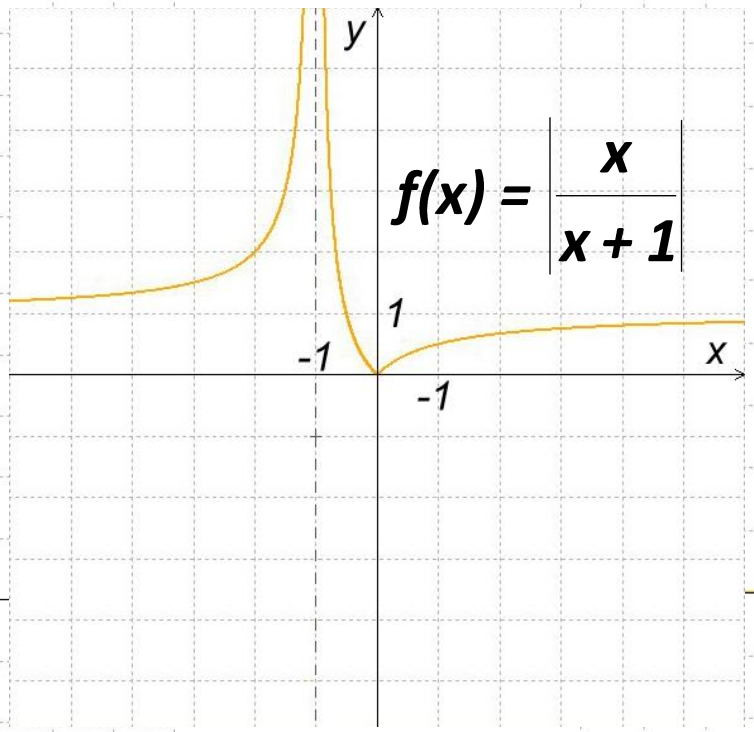
$$f(x) = \frac{2 - x}{x - 1}$$



$$f(x) = \frac{1}{2}|x + 1| \quad \frac{1}{2}|x - 1|$$

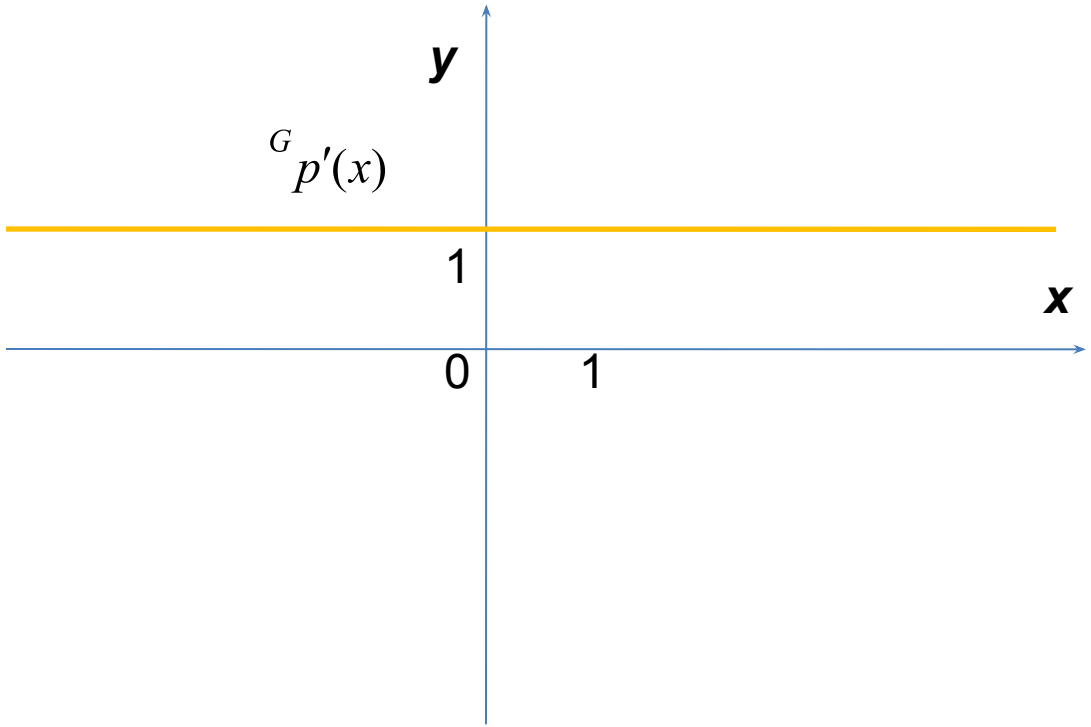


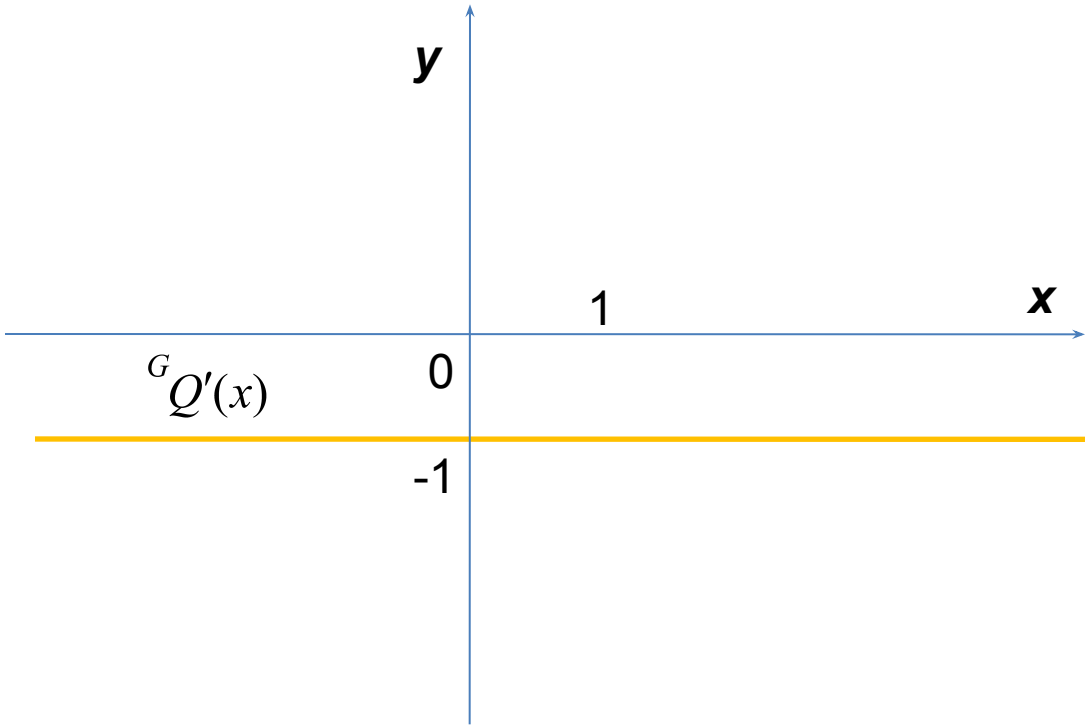
$$f(x) = \left|\frac{x}{x + 1}\right|$$

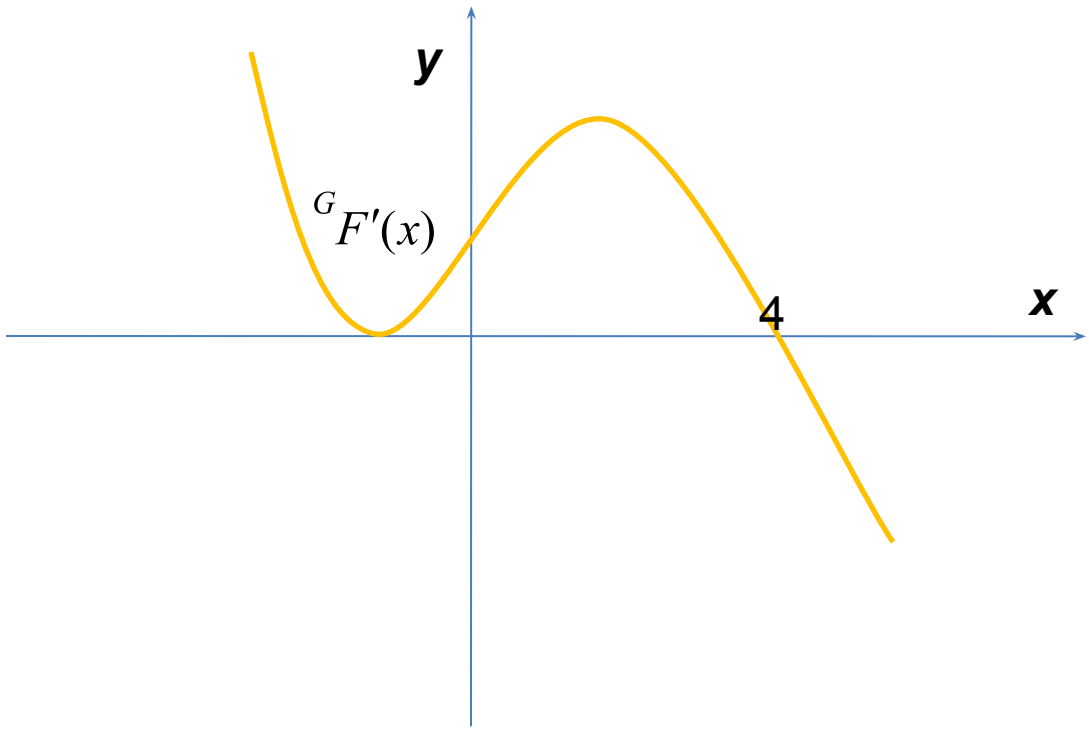


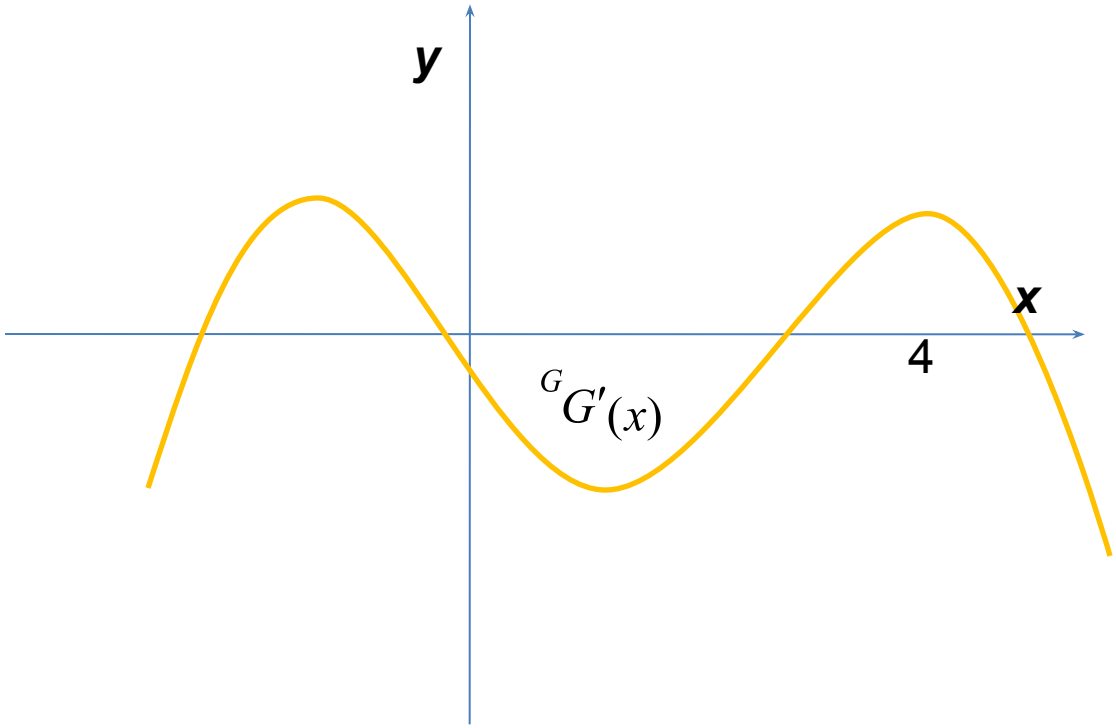
$$f(x) = (1 + x)(1 - |x|)$$

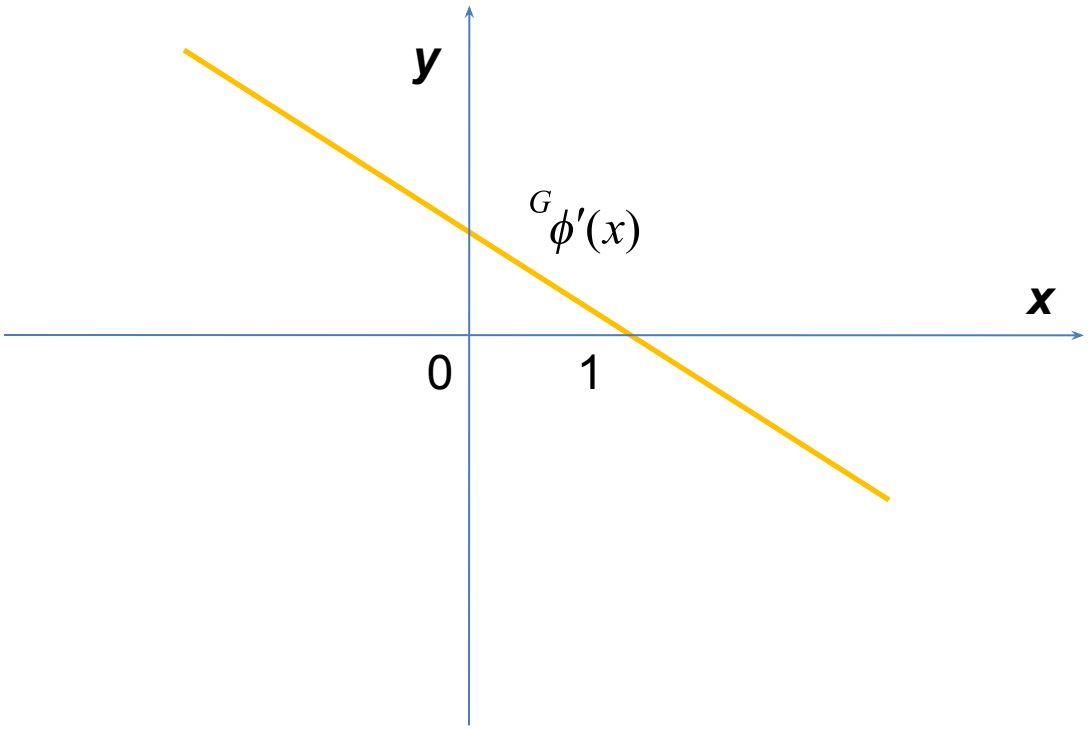
$$f(x) = |1 - |x|| - |x| + 1$$

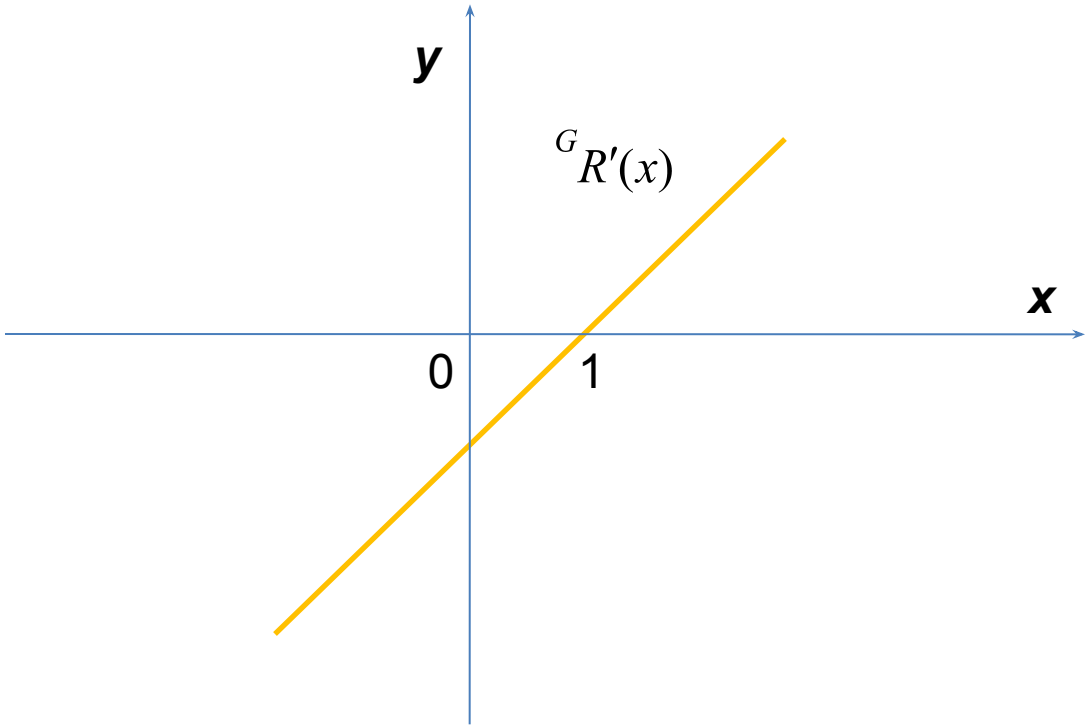

y
$^{G}p'(x)$
1
x
0
1


y
1
x
$^{G}Q'(x)$
0
-1


y
x
4
G
F′(x)


y
x
4
G
G′(x)


y
x
0
1
$^{G}\phi'(x)$

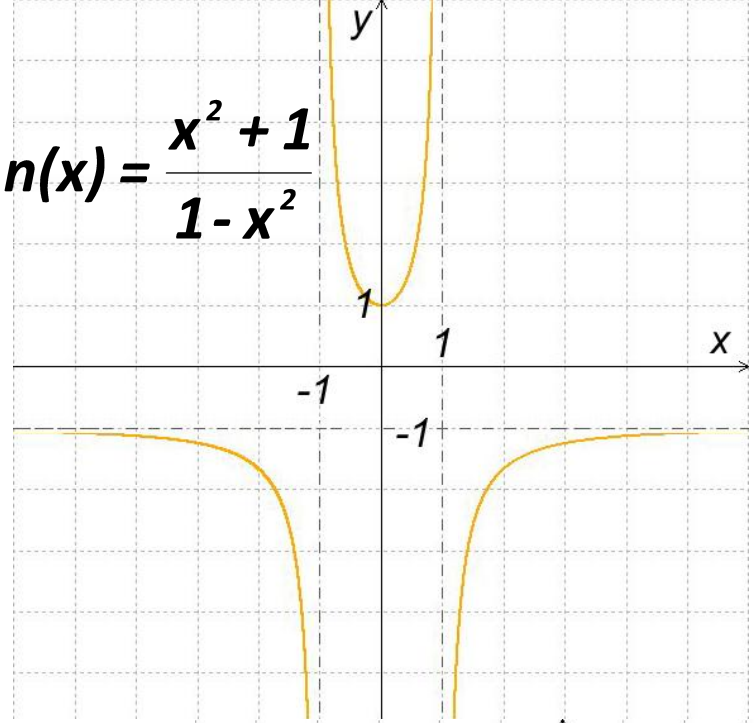

y
x
0
1
$^{G}R'(x)$

1)	$n(x) = \frac{x^2 + 1}{1 - x^2}$
2)	$f(x) = -x^5 + 2x^3 - x$
3)	$g(x) = -x^4 + 2x^2 + 8$
4)	$m(x) = x + \frac{1}{x}$

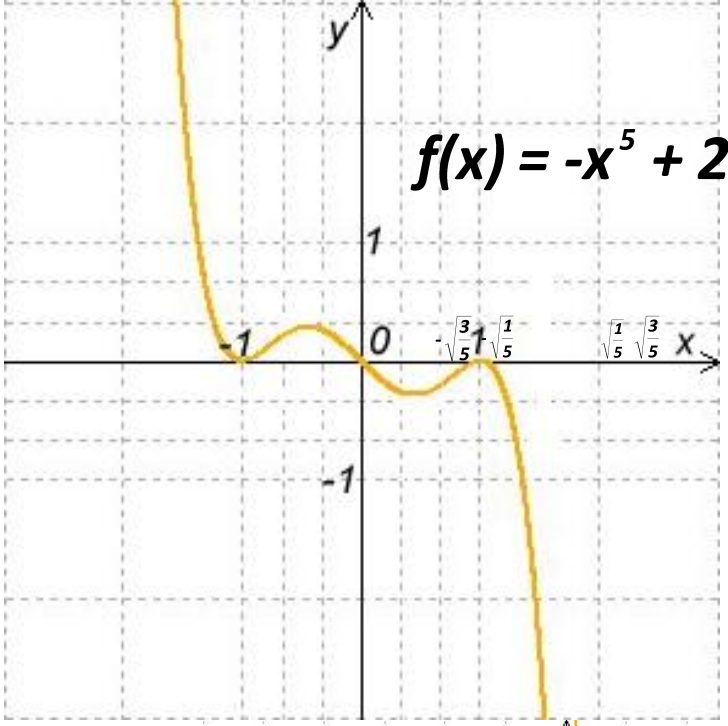
Чётные функции	*Нечётные функции*	*Вертикальные асимптоты*	*Наклонные асимптоты*	*Горизонтальные асимптоты*	*Точки перегиба*

Чётные функции	*Нечётные функции*	*Вертикальные асимптоты*	*Наклонные асимптоты*	*Горизонтальные асимптоты*	*Точки перегиба*
g,n	***m,f***	***n***	***m***	***n***	***g,f***

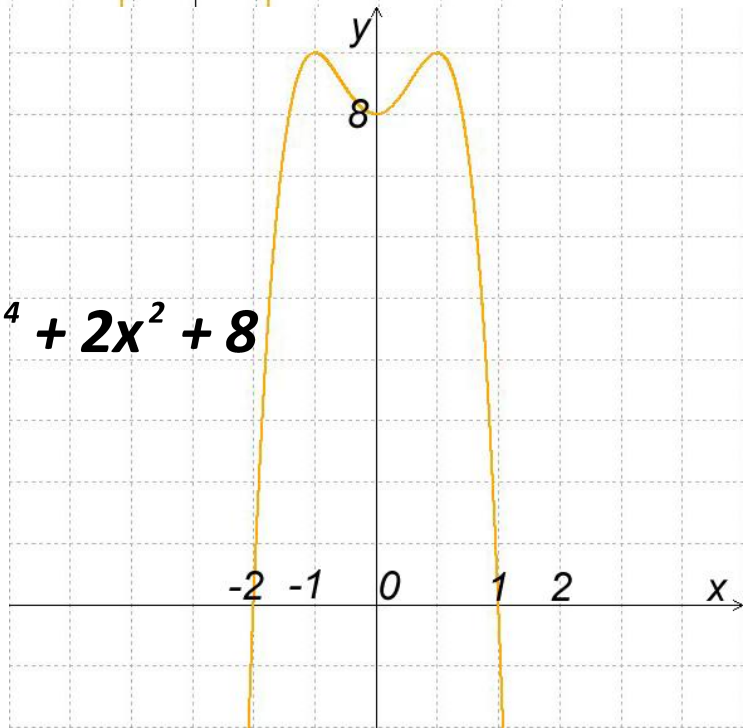
$$n(x) = \frac{x^2 + 1}{1 - x^2}$$

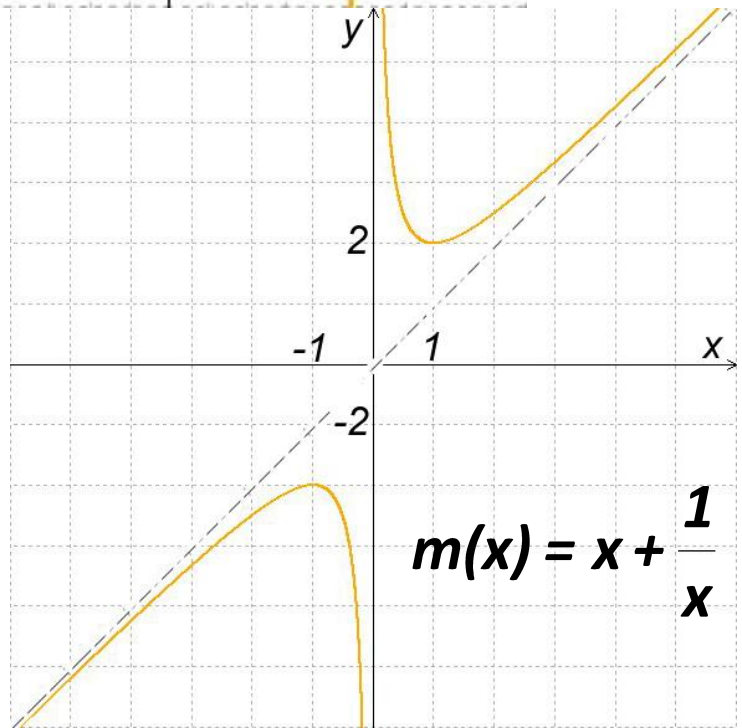


$$f(x) = -x^5 + 2x^3 - x$$



$$g(x) = -x^4 + 2x^2 + 8$$





$$m(x) = x + \frac{1}{x}$$

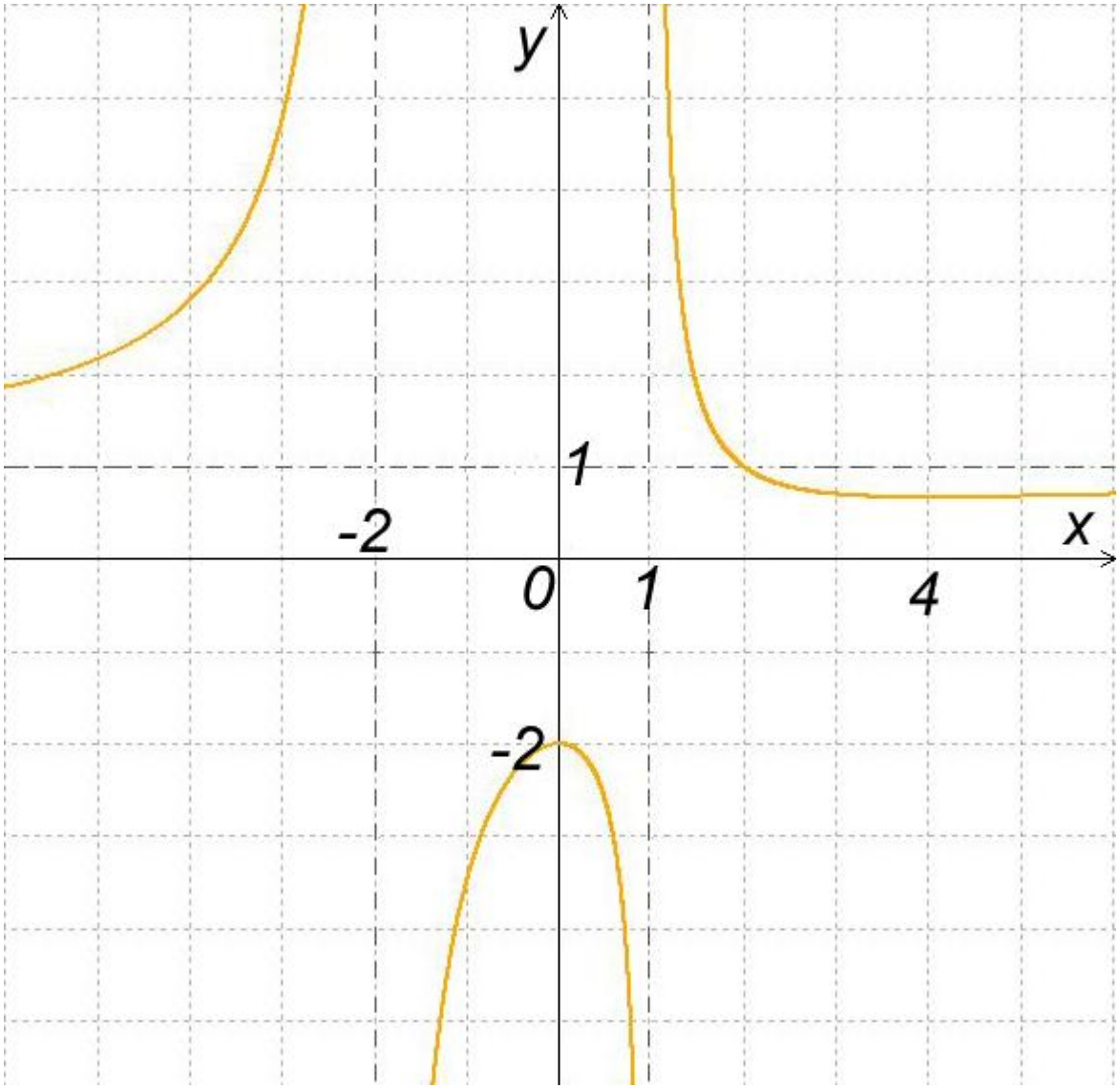
1) $$f(x) = \frac{x^2 - 2x + 4}{x^2 + x - 2}$$

2) $$f(x) = \frac{3 - 4x}{x^2 + 1}$$

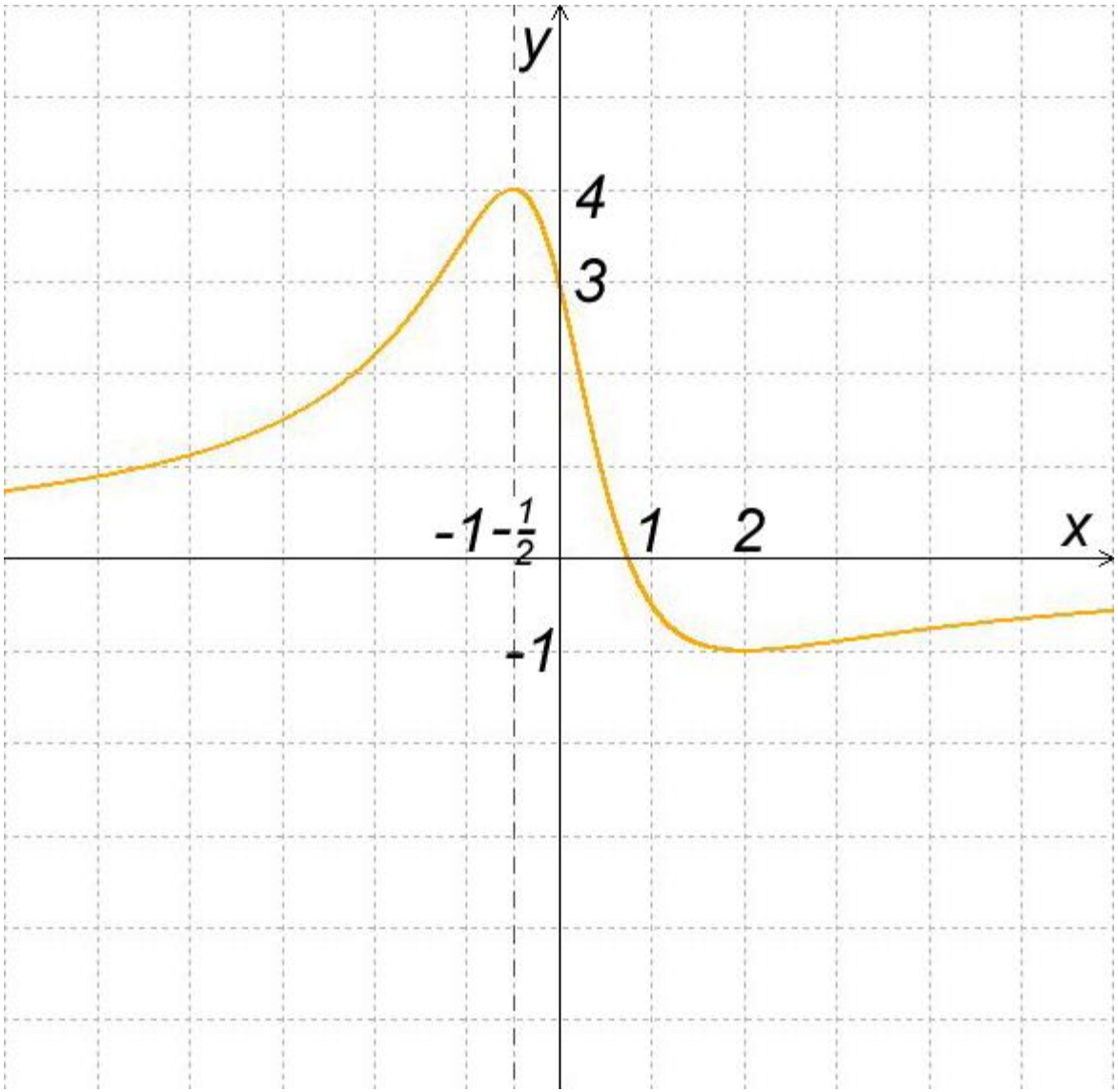
3) $$f(x) = \frac{x^2 - 4x + 3}{x^2 - 2x}$$

4) $$f(x) = -\frac{1 - x^2}{1 + x^4}$$

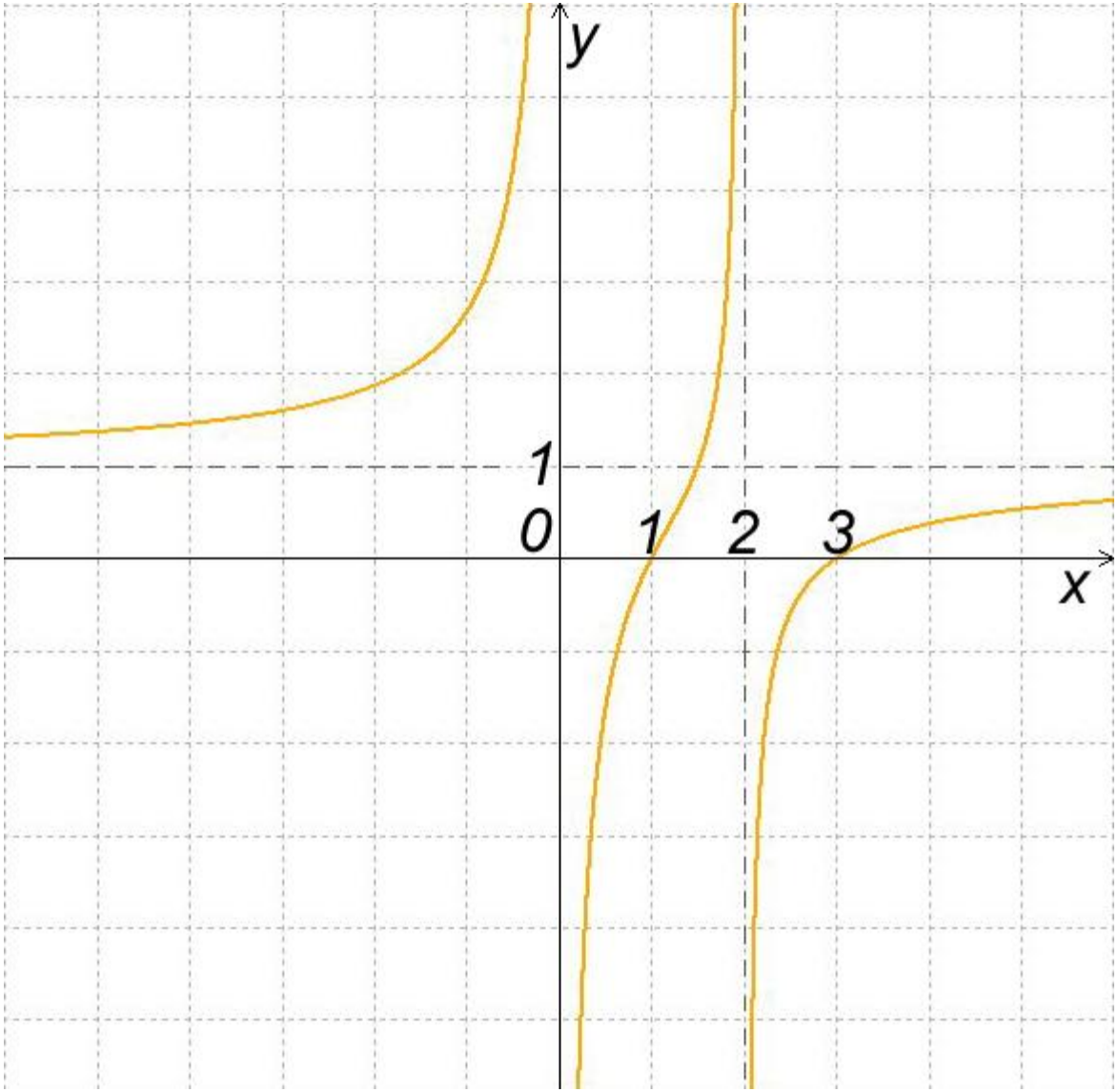
5) $$f(x) = \frac{x + 1}{x^3}$$



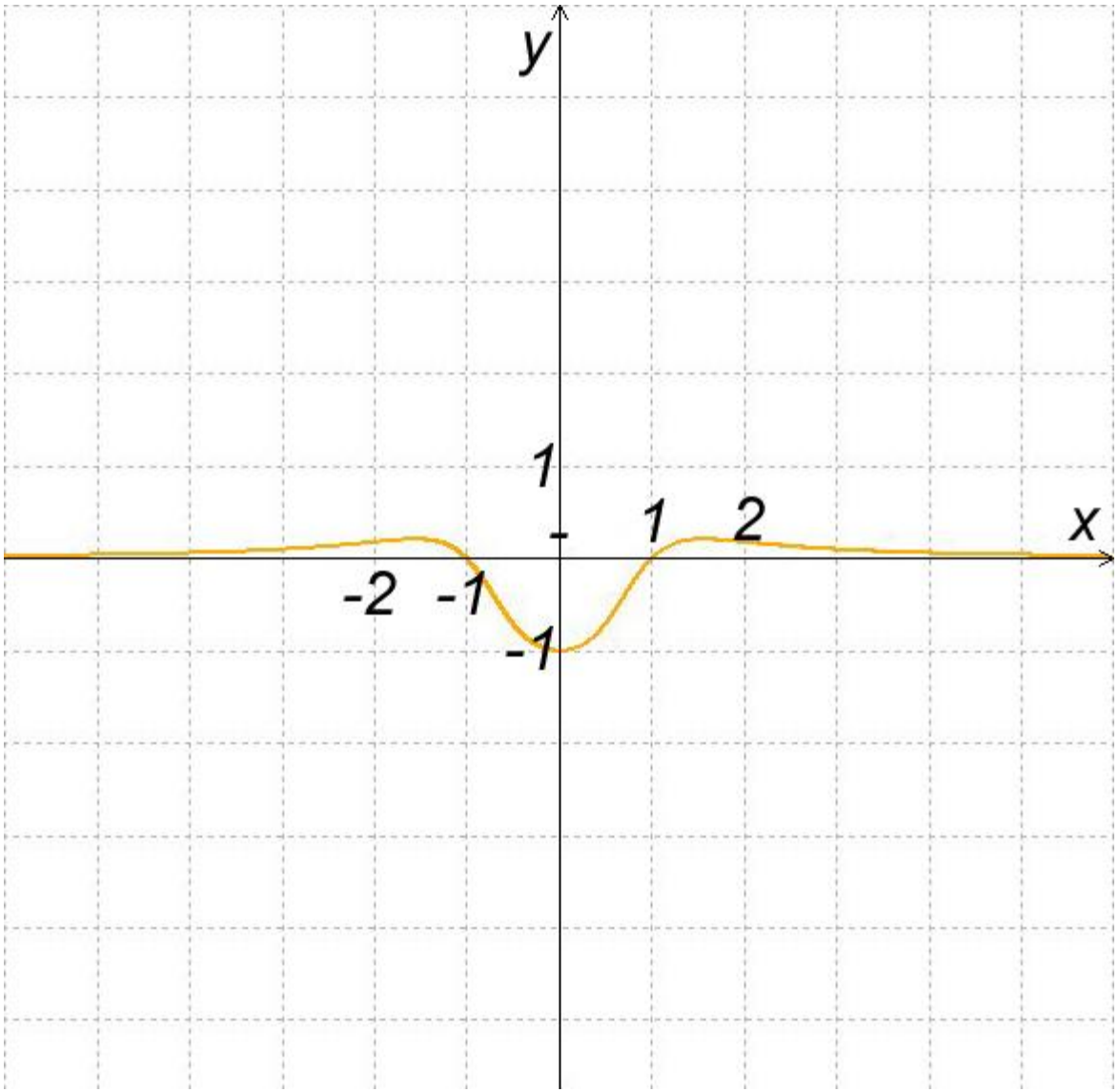
[1] [2] [3] [4] [5]



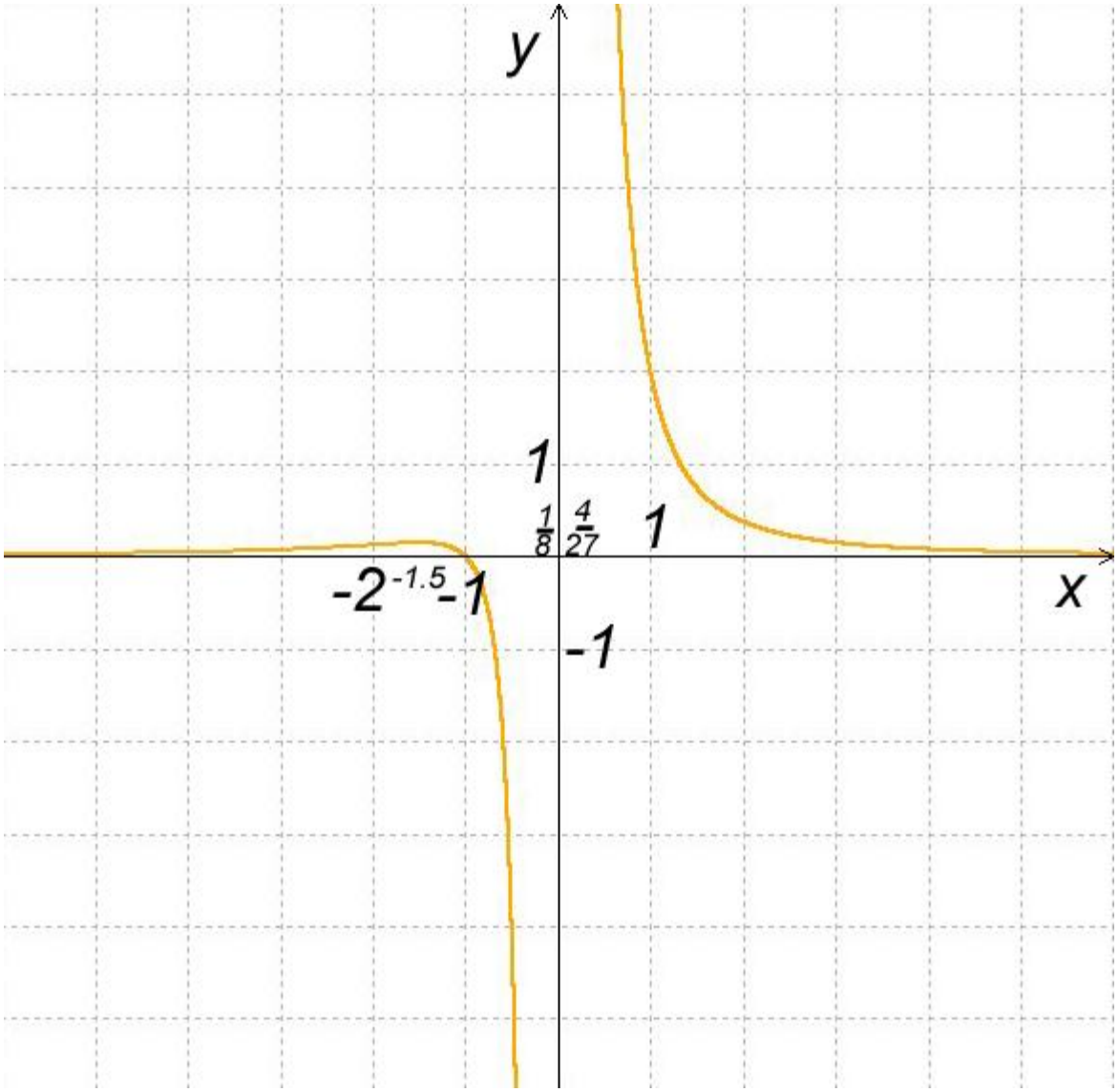
[1] [2] [3] [4] [5]



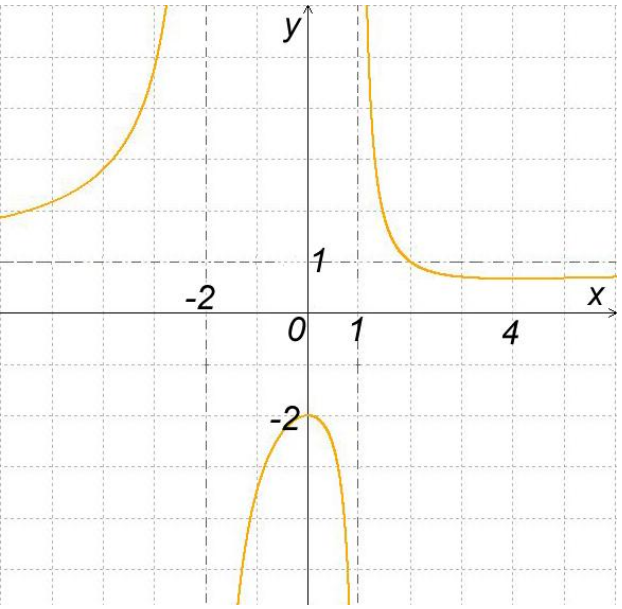
[1] [2] [3] [4] [5]

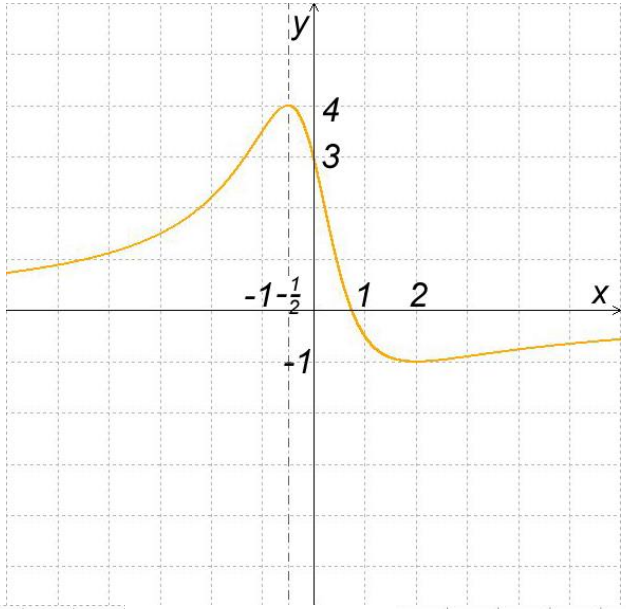


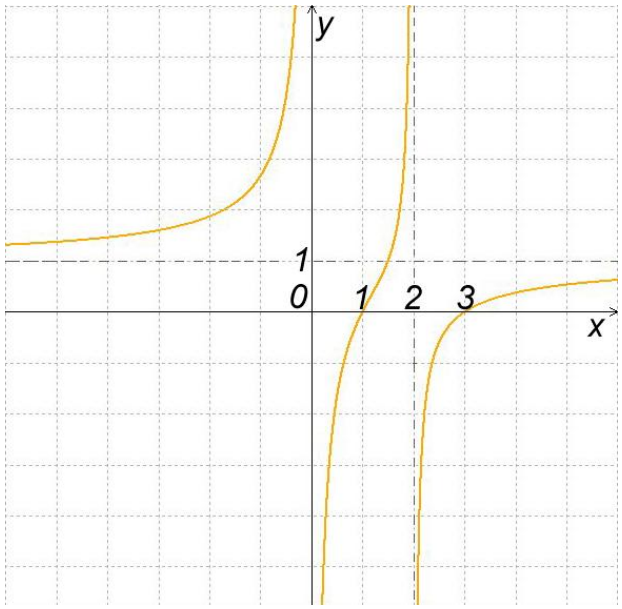
[1] [2] [3] [4] [5]

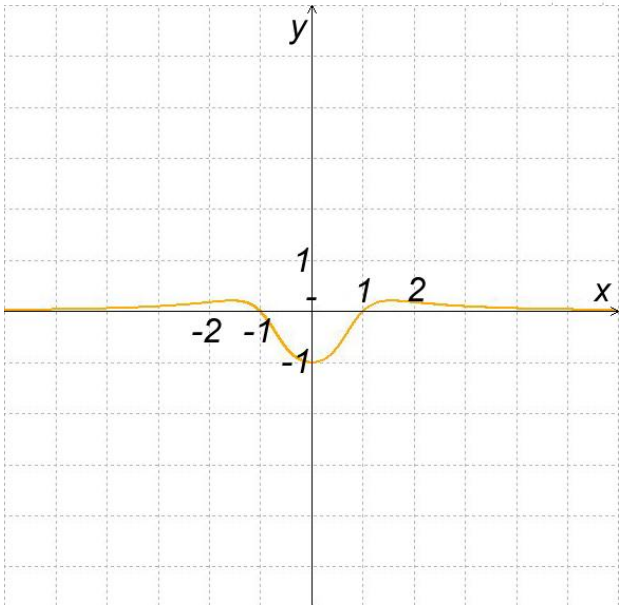


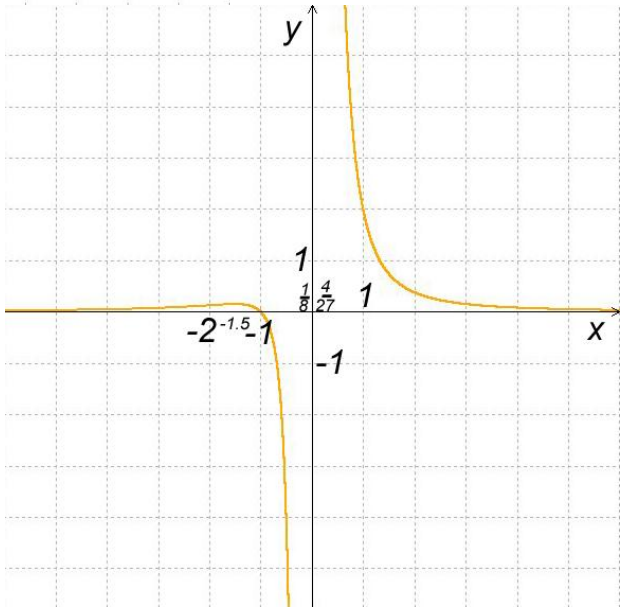
[1] [2] [3] [4] [5]


y
x
1
-2
0
1
4
-2


y
x
4
3
-1
-1/2
1
2
-1


y
x
1
0
1
2
3


y
x
1
-2
-1
1
2
-1


y
x
1
1/8
4/27
1
-2
-1.5
-1
-1

Д/З :

“3”:
1) $f(x) = x^3 - 3x^2 + 4$
“4”:
2) $f(x) = (1 - x)^3 (x + 1)^2$
“5”:
3) $f(x) = \frac{x^3}{3 - x^2}$

Все графики* были построены при помощи FUNCVIEWER,
и доработаны в PHOTOSHOP.
Презентация собрана в Microsoft Power Point.

*Некоторые графики были построены в Microsoft Power Point

C/P:

B -I	B-II
"7":	
$f(x) = \frac{1}{5}x^2 - \frac{1}{2}x^3$	$f(x) = x^4 - 3x^2 + 7$
"8":	
$f(x) = \frac{x^4}{4} + \frac{x^3}{3} - x^2$	$f(x) = \frac{x^3}{3} + x^2 - 3x + 1$
"9":	
$f(x) = \frac{x^2 + 2}{x + 1}$	$f(x) = \frac{x}{x^2 - 1}$