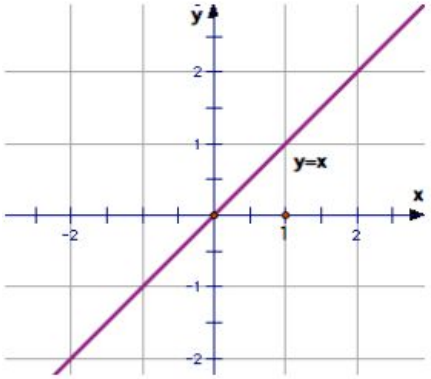
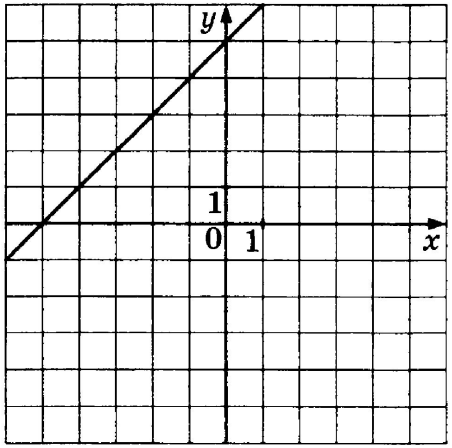
Графики функций

1. Линейная функция

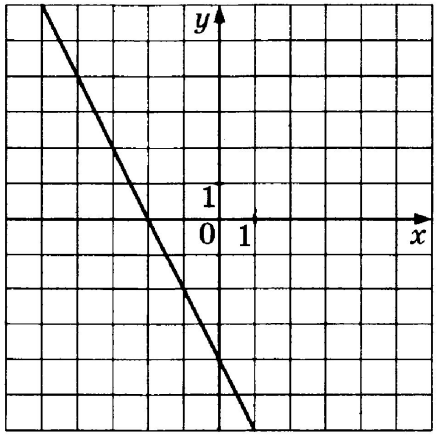
$$y = kx + b$$



k=1, b=0



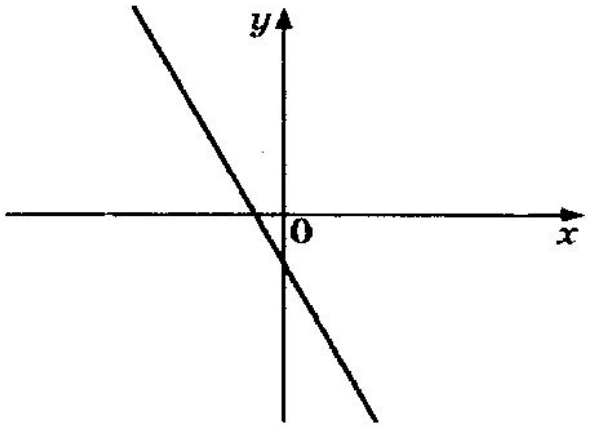
k= >0, b>0



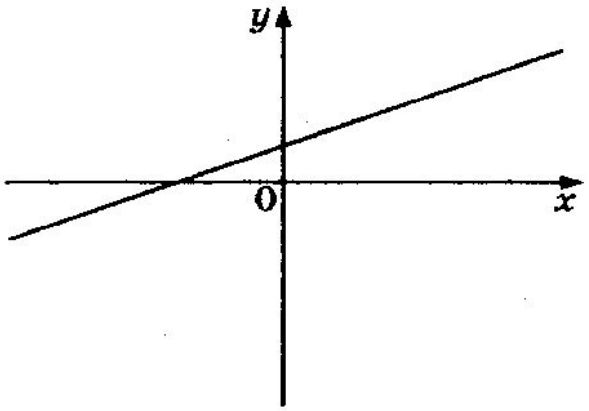
k=<0, b=-0

1416. Дана функция $y = kx + b$. На каком из рисунков изображён график этой функции, если известно, что $k < 0$ и $b > 0$?

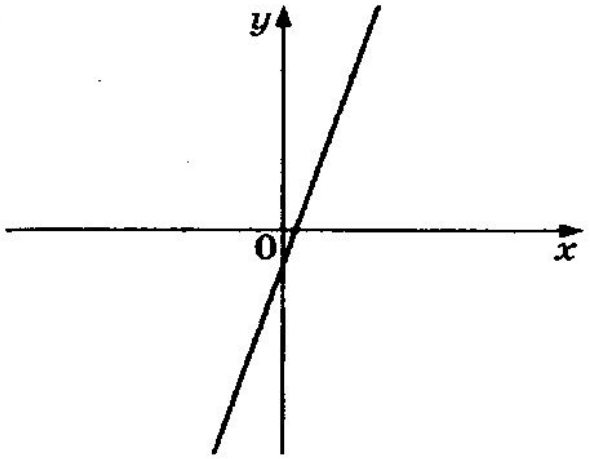
1)



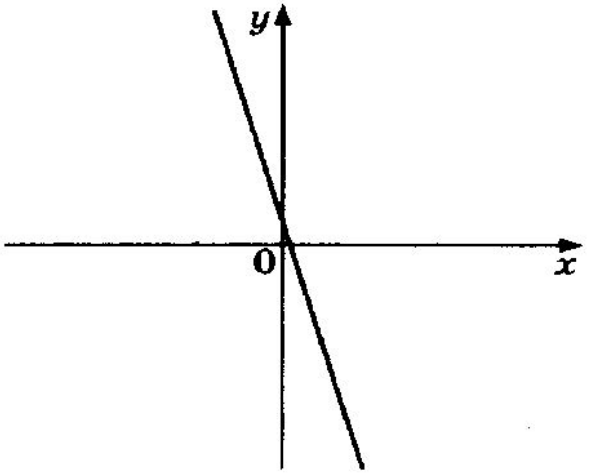
2)



3)

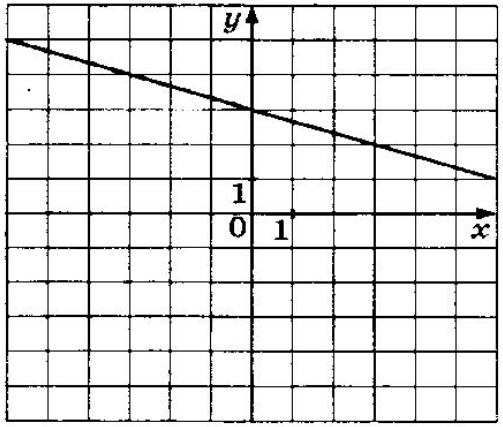


4)

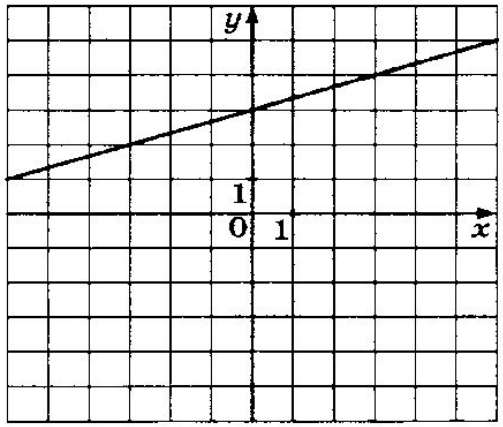


1403. На одном из рисунков изображён график функции $y = -\frac{1}{3}x - 3$. Укажите номер этого рисунка.

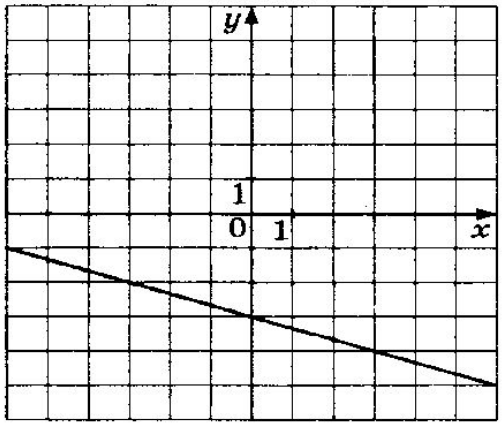
1)



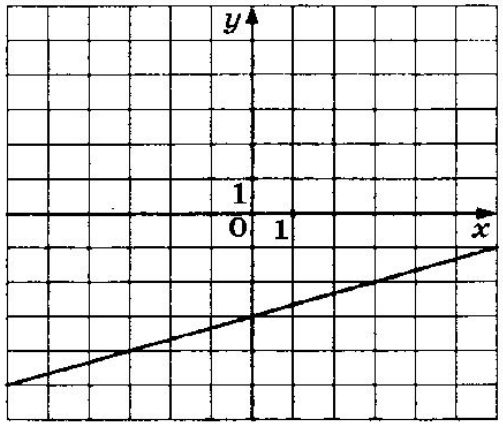
2)



3)

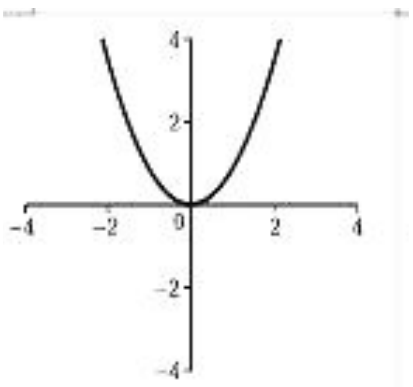


4)

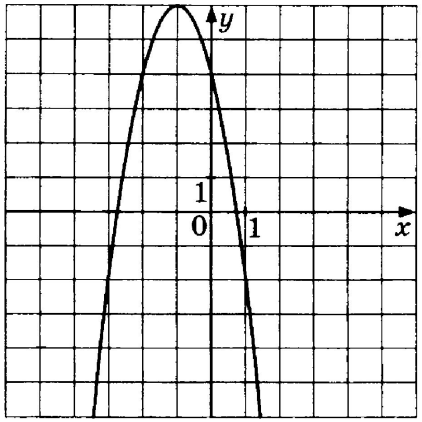


2. Квадратичная функция

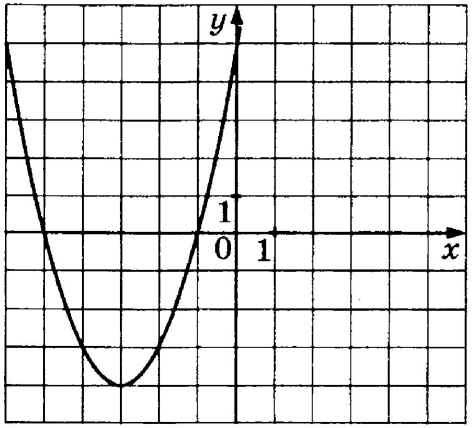
$$y = ax^2 + bx + c$$



$y=x^2$



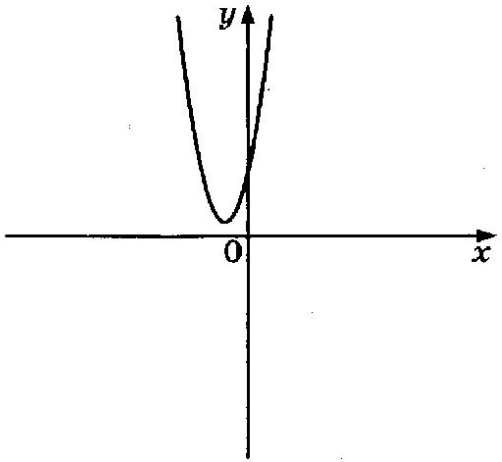
a<0, c=4



a>0, c=5

абсцисса вершины параболы $x_0 = -b/2a$

1445. На рисунке изображён график функции $y = ax^2 + bx + c$.

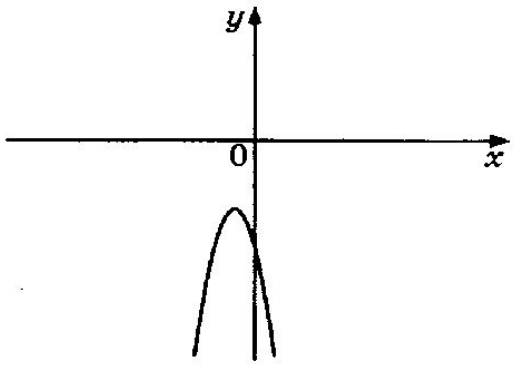


Каковы знаки коэффициентов a и c?

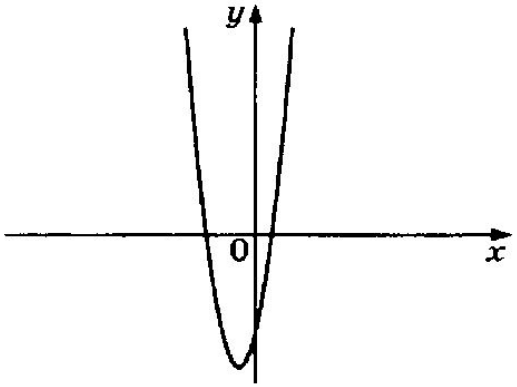
1) $a < 0$, $c > 0$
2) $a < 0$, $c < 0$
3) $a > 0$, $c < 0$
4) $a > 0$, $c > 0$

1448. Дана функция $y = ax^2 + bx + c$. На каком из рисунков изображён график этой функции, если известно, что $a > 0$ и $c > 0$?

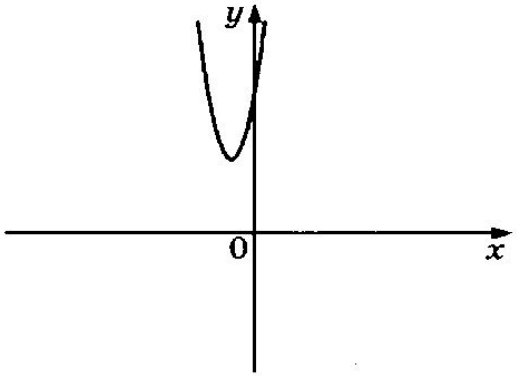
1)



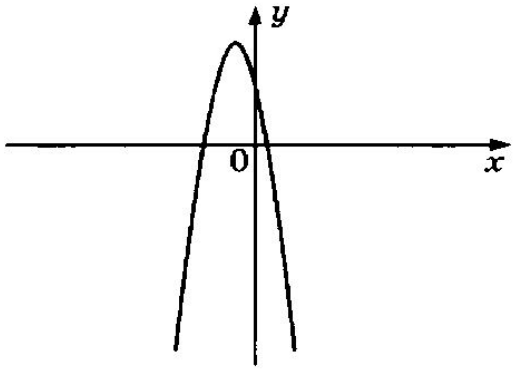
2)



3)

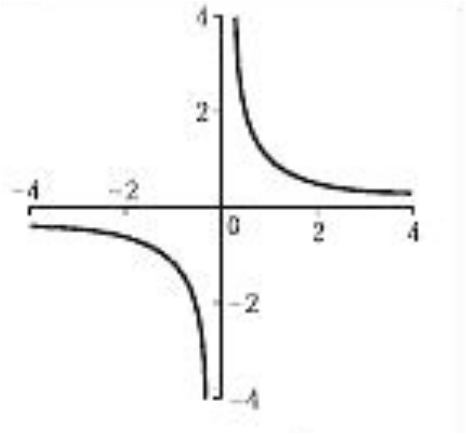


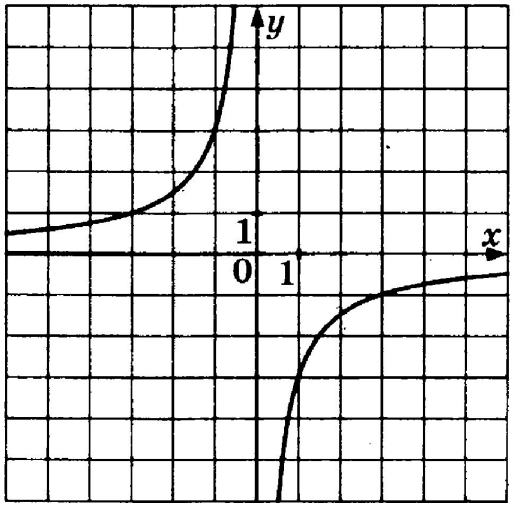
4)



3. Обратная пропорциональность

$$y = \frac{k}{x}$$

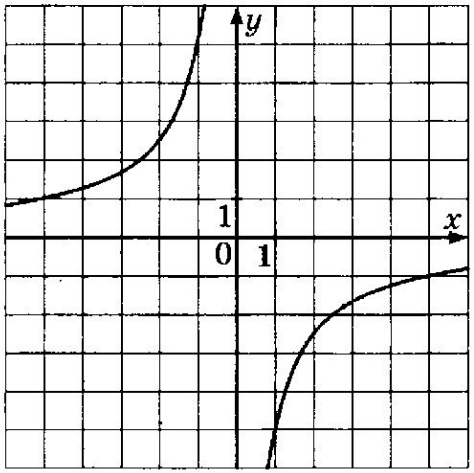




k>0

k<0

1471. График какой из приведённых ниже функций изображён на рисунке?



1) $y = \frac{1}{5x}$

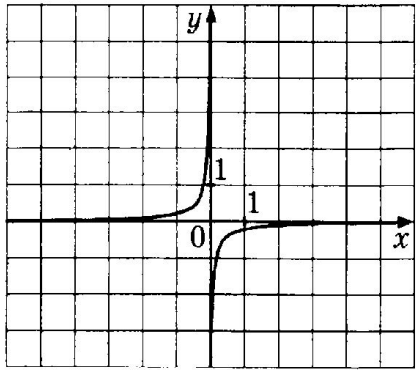
2) $y = -\frac{5}{x}$

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

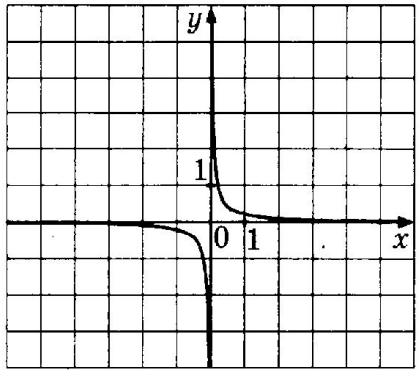
4) $y = \frac{5}{x}$

1473. На одном из рисунков изображён график функции $y = -\frac{5}{x}$. Укажите номер этого рисунка.

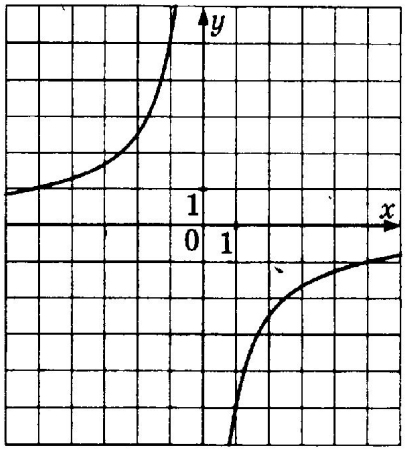
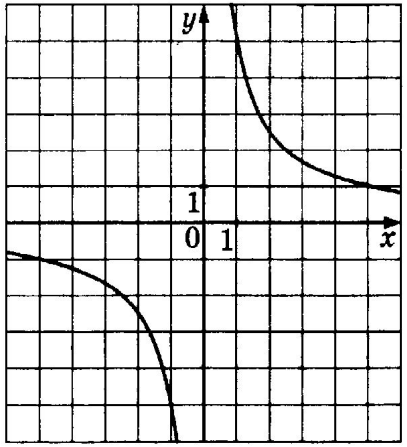
1)



2)



3)



4)