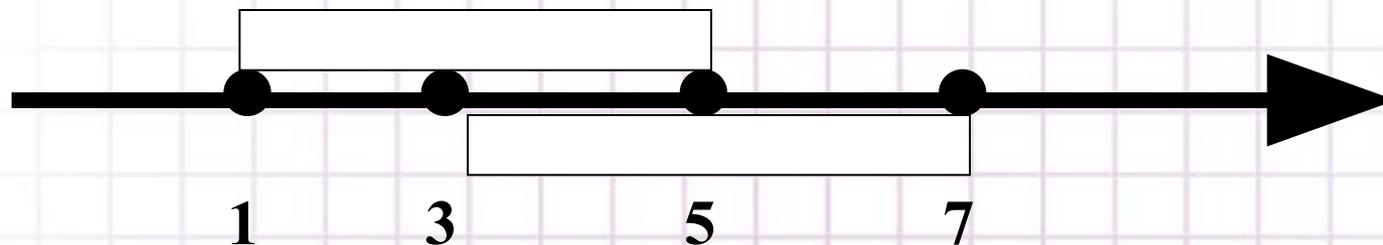


Числовые промежутки



$$[1; 5] \cap [3; 7] = [3; 5]$$

$[1; 5]$



$[3; 7]$

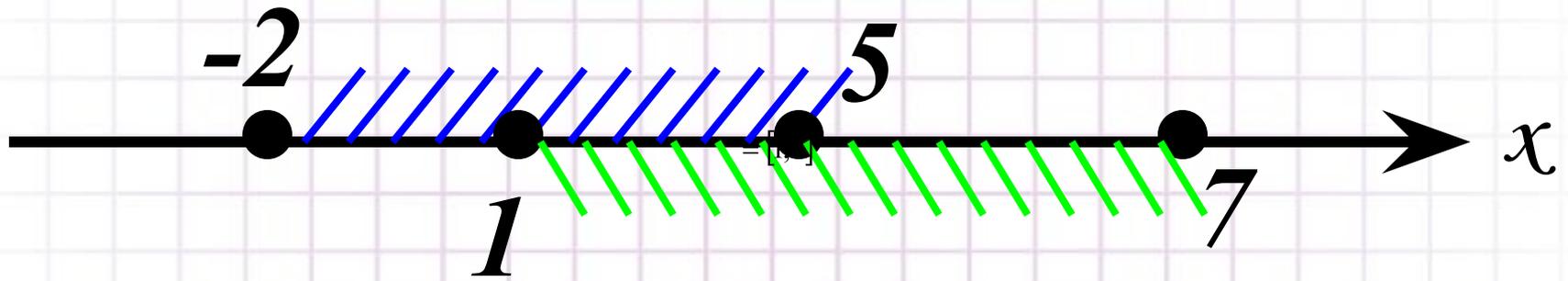
$[3; 5]$ - **Общая часть**

Множество, составляющее общую часть некоторых множеств A и B , называют *пересечением* этих множеств.

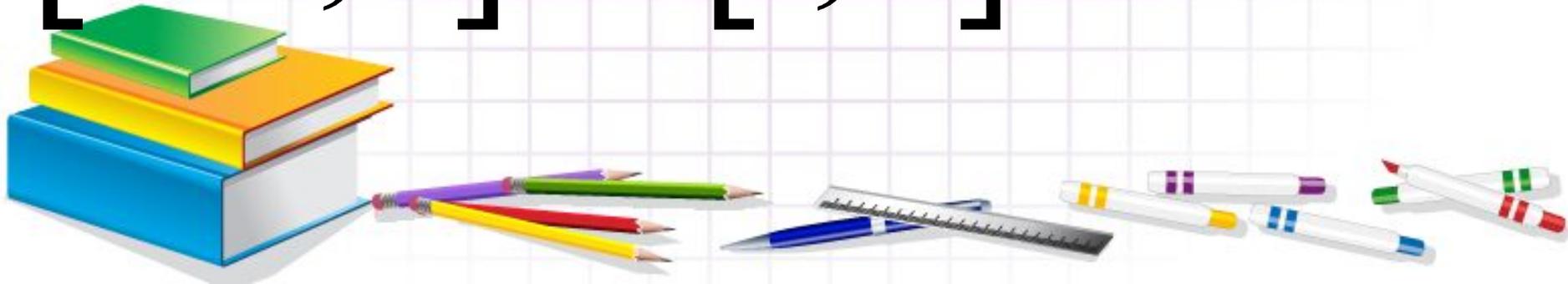
Обозначают: $A \cap B$

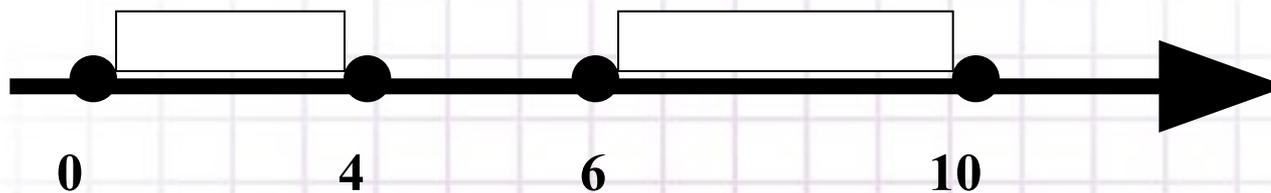


Пересечение промежутков.

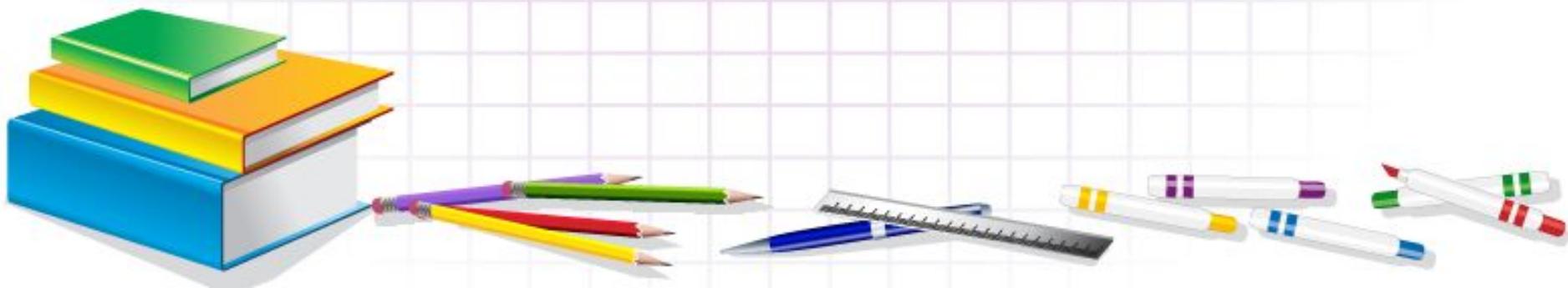


$$[-2;5] \cap [1;7]$$



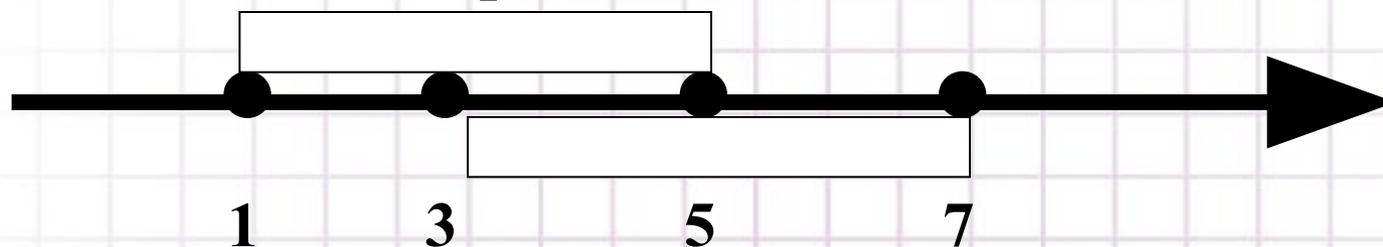


**Пересечение промежутков $[0; 4]$ и $[6; 10]$
пустое множество**



$$[1; 5] \cup [3; 7] = [1; 7]$$

[1; 5]



1

3

5

7

[3; 7]

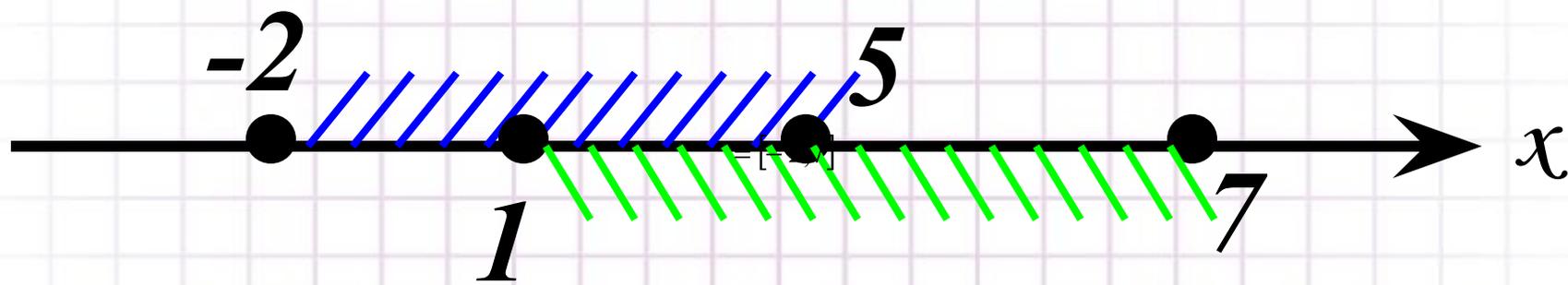
Множество, состоящее из элементов, принадлежащих хотя бы одному из множеств A и B , называют *объединением* этих множеств.



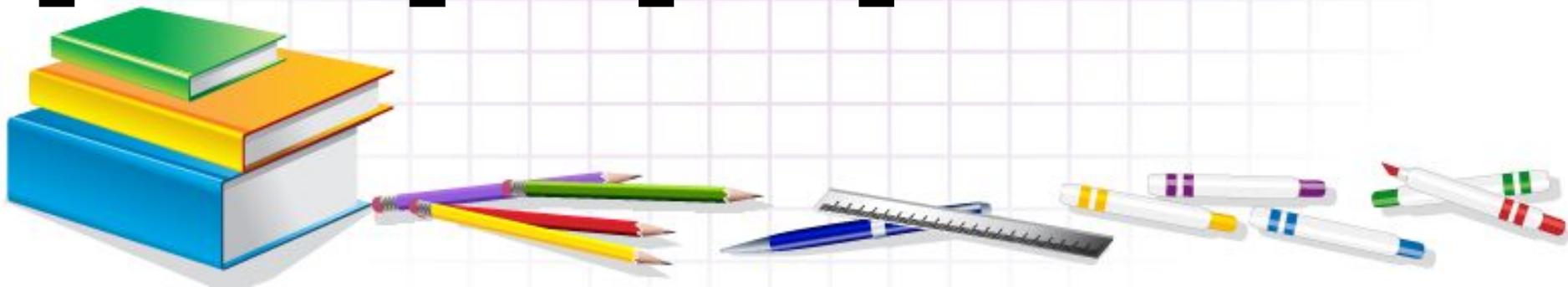
Обозначают: $A \cup B$

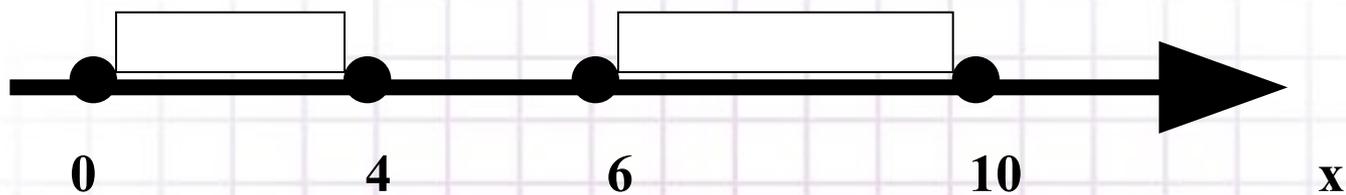


Объединение промежутков.

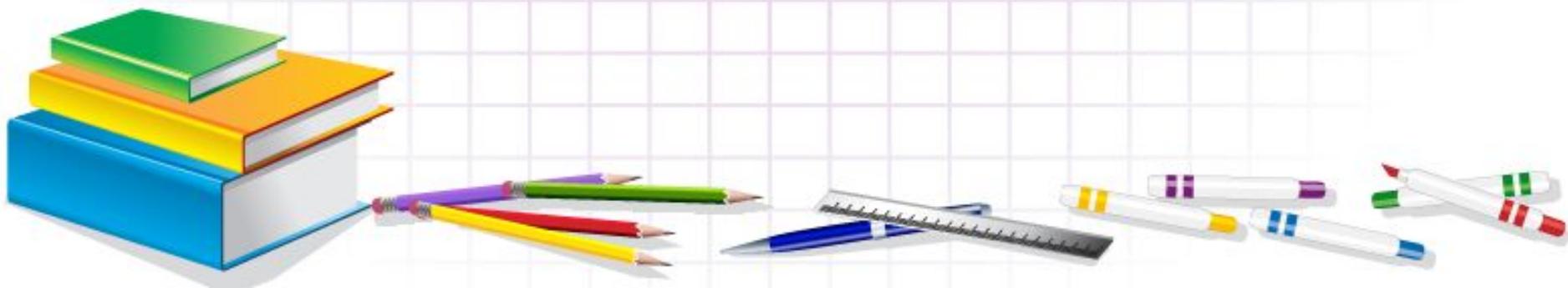


$$[-2; 5] \cup [1; 7]$$

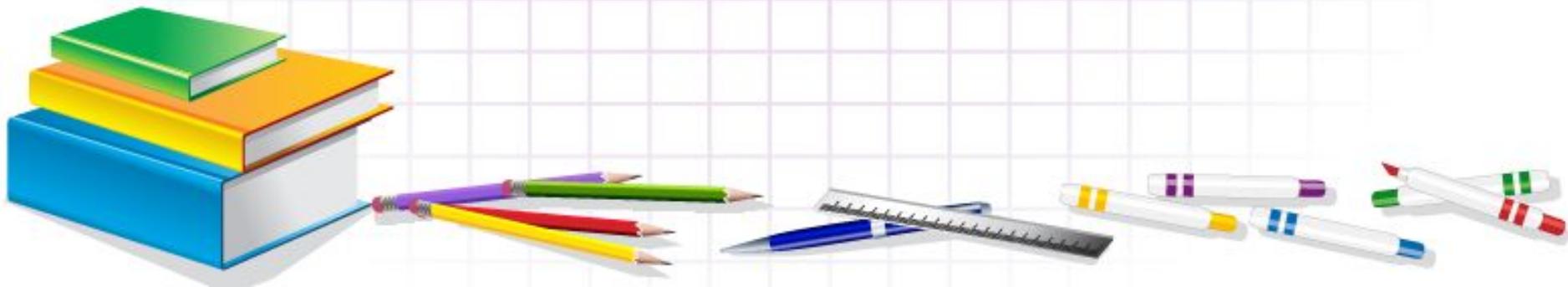
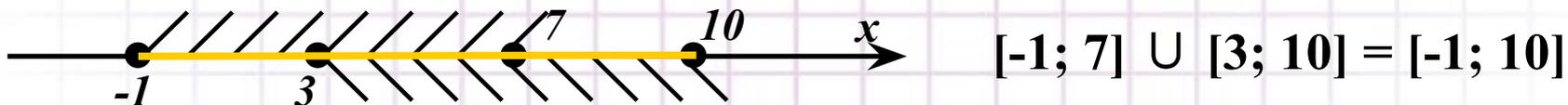
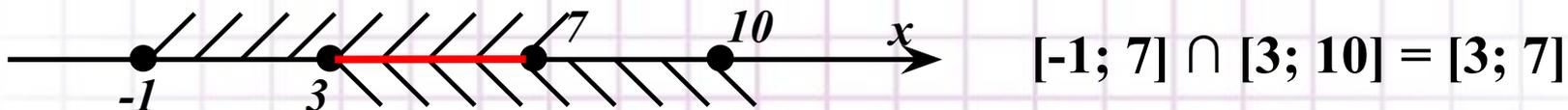
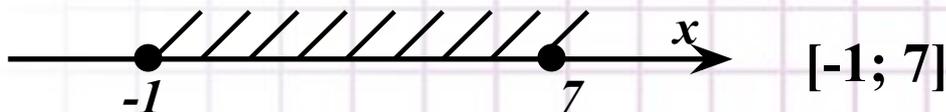




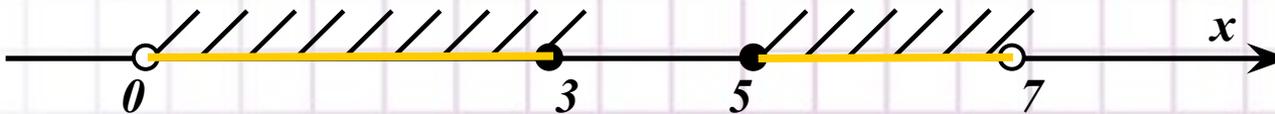
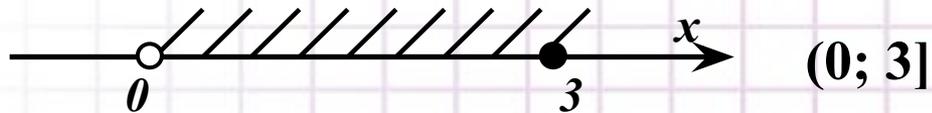
[0; 4] U [6; 10] Не является промежутком



Пересечение и объединение числовых промежутков

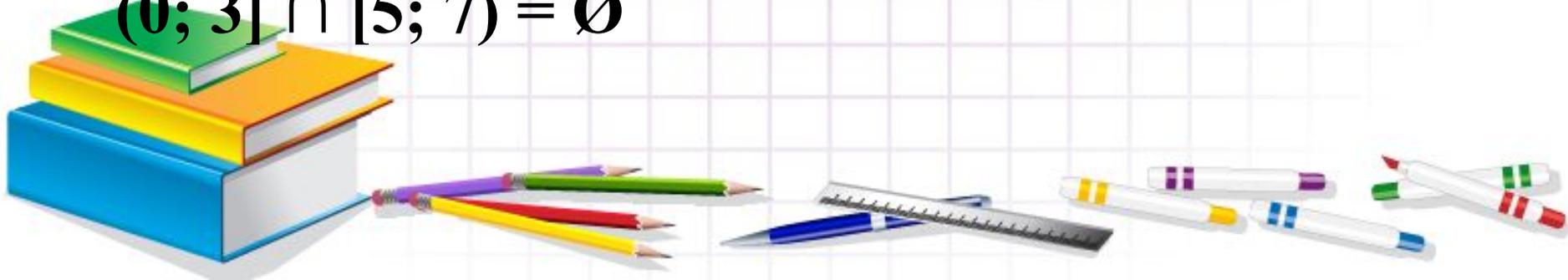


Пересечение и объединение числовых промежутков

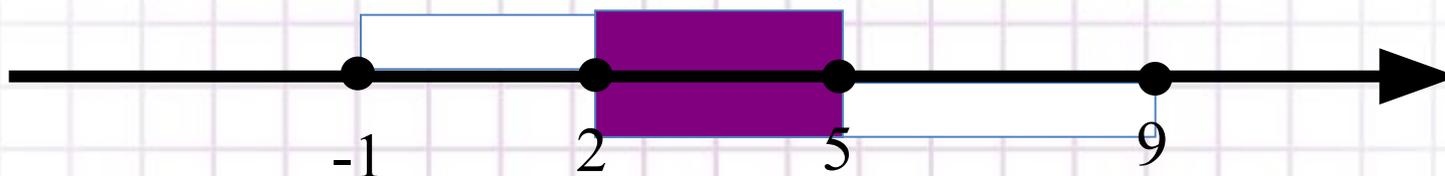


$(0; 3] \cup [5; 7)$ - объединение

$$(0; 3] \cap [5; 7) = \emptyset$$

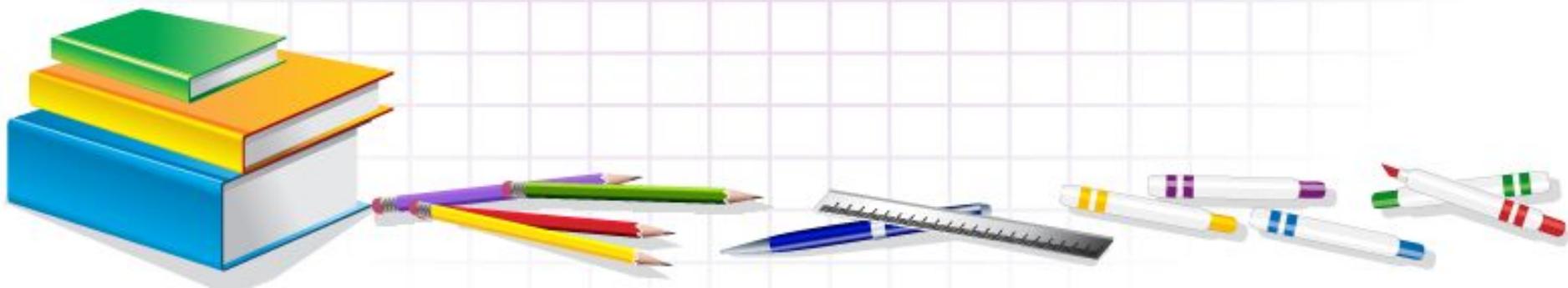


Пересечение и объединение числовых промежутков



Пересечение: $[-1; 5] \cap [2; 9] = [2; 5]$

Объединение: $[-1; 5] \cup [2; 9] = [-1; 9]$



Пересечение и объединение числовых промежутков



Пересечение:

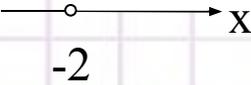
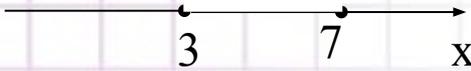
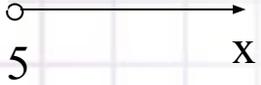
$$[-1; 2] \cap [5; 9] = \emptyset$$

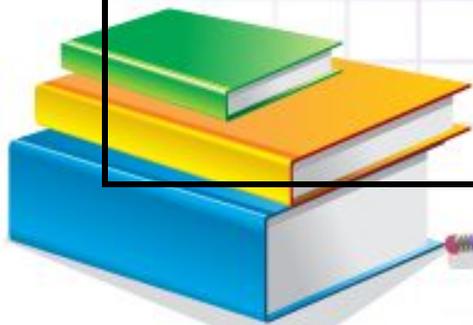
Объединение:

$$[-1; 2] \cup [5; 9]$$

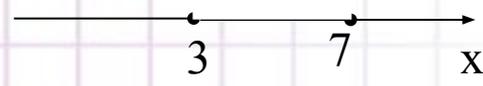
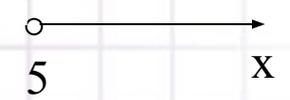
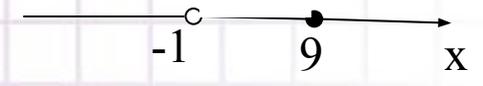


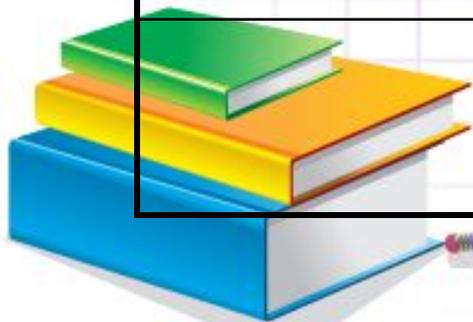
Заполни таблицу

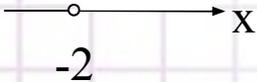
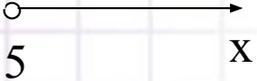


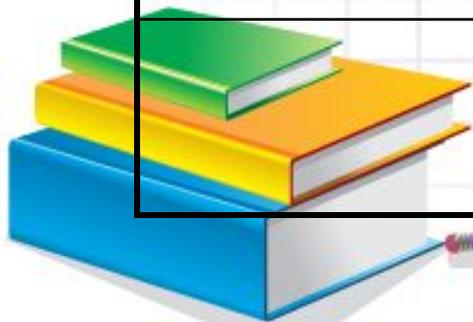
Заполни таблицу

$(-2; +\infty)$		
		
		
		
		

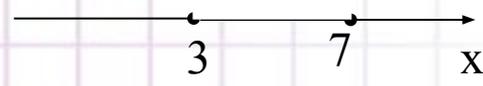
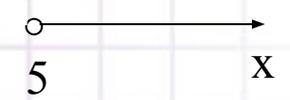
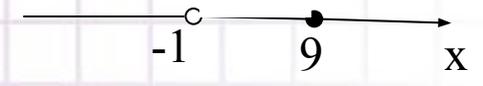


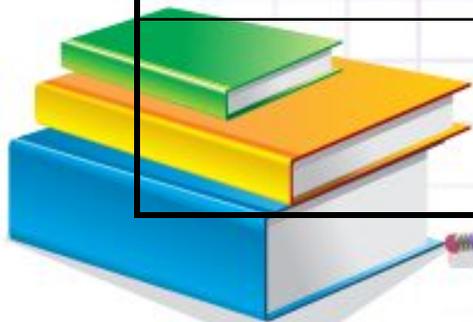
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
		
		
		
		

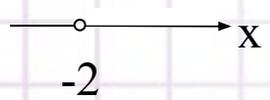
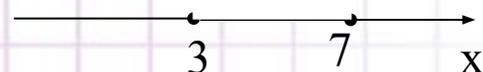
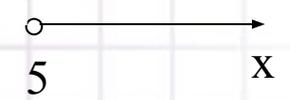


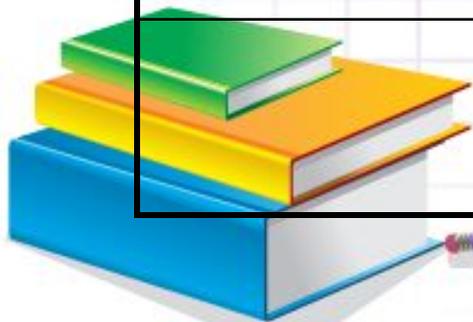
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
$[3; 7]$		
		
		
		

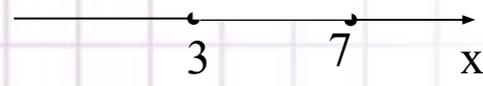
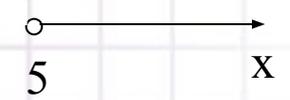
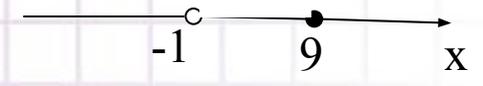


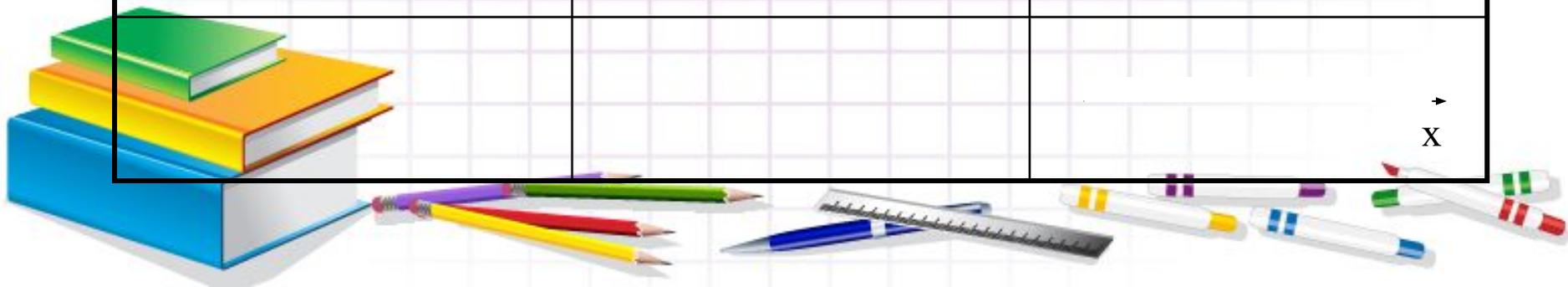
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
$[3; 7]$	$3 \leq X \leq 7$	
		
		
		

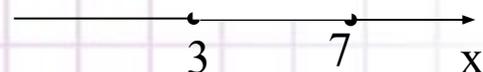
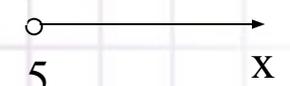


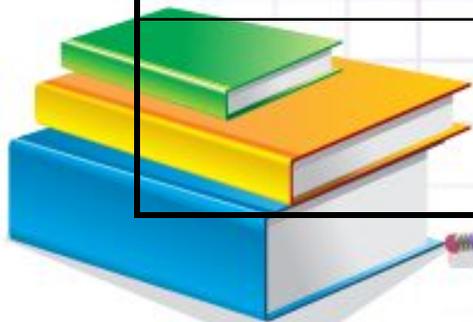
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
$[3; 7]$	$3 \leq X \leq 7$	
$(-\infty; 5)$		
		
		

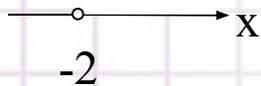
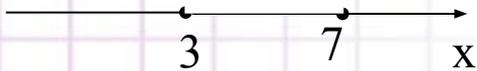
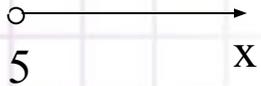


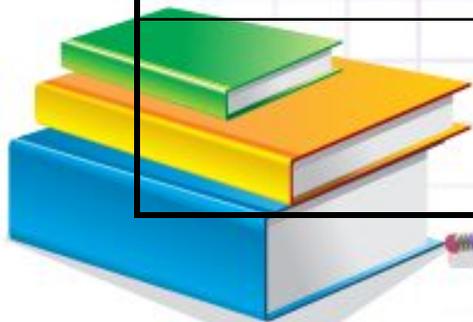
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
$[3; 7]$	$3 \leq X \leq 7$	
$(-\infty; 5)$	$X < 5$	
		
		

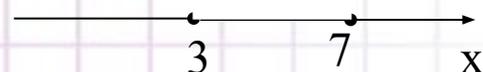


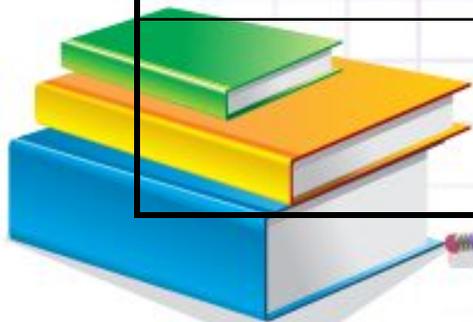
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
$[3; 7]$	$3 \leq X \leq 7$	
$(-\infty; 5)$	$X < 5$	
$(-1; 9]$		
		

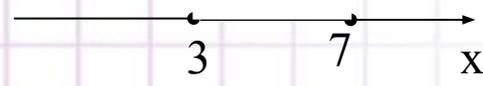
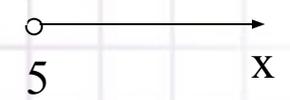
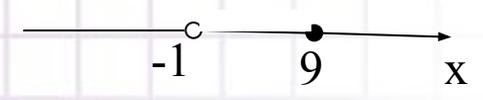


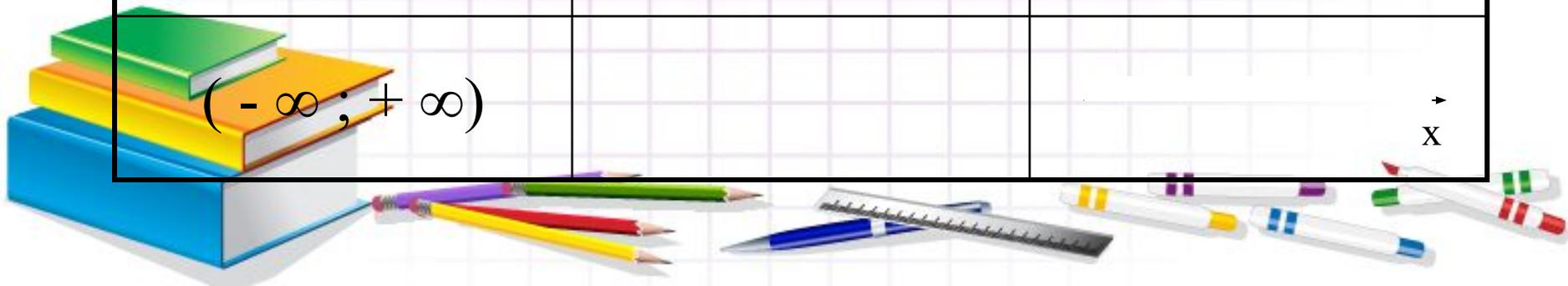
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
$[3; 7]$	$3 \leq X \leq 7$	
$(-\infty; 5)$	$X < 5$	
$(-1; 9]$	$-1 < X \leq 9$	
		

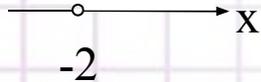
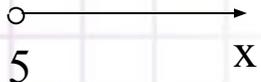


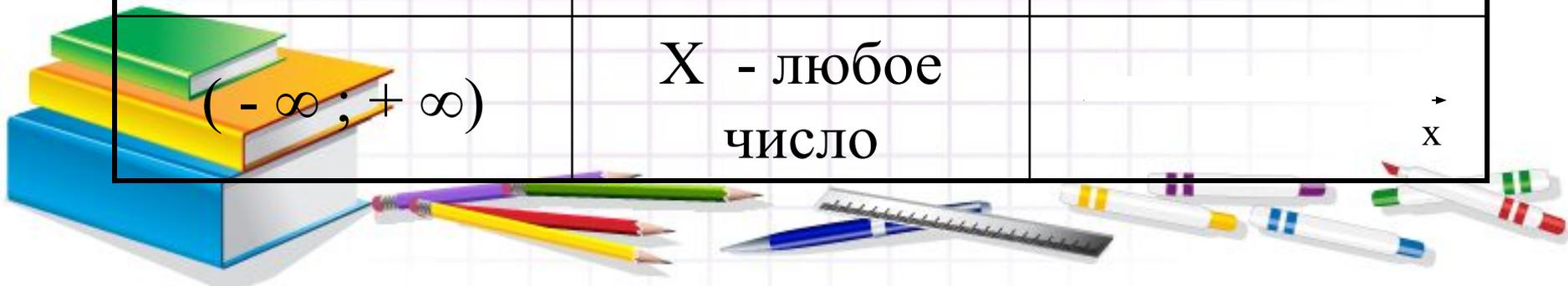
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
$[3; 7]$	$3 \leq X \leq 7$	
$(-\infty; 5)$	$X < 5$	
$(-1; 9]$	$-1 < X \leq 9$	
$(-\infty; +\infty)$		



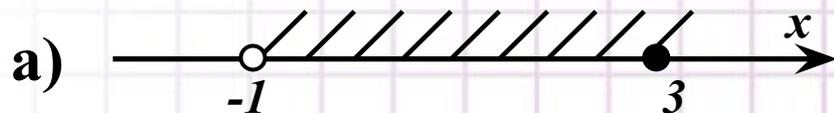
Заполни таблицу

$(-2; +\infty)$	$X > -2$	
$[3; 7]$	$3 \leq X \leq 7$	
$(-\infty; 5)$	$X < 5$	
$(-1; 9]$	$-1 < X \leq 9$	
$(-\infty; +\infty)$	X - любое число	



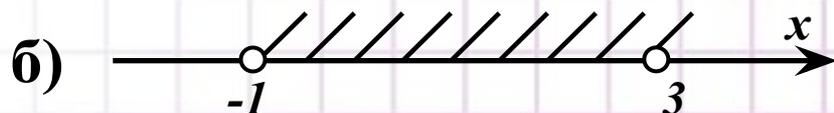
ТЕСТ: задание 1 – найти соответствие между числовыми промежутками и их обозначениями

ОТВЕТЫ:



1) $(-\infty; 3]$

а – 3



2) $[-1; 3]$

б – 5



3) $(-1; 3]$

в – 6



4) $(-1; \infty)$

г – 2



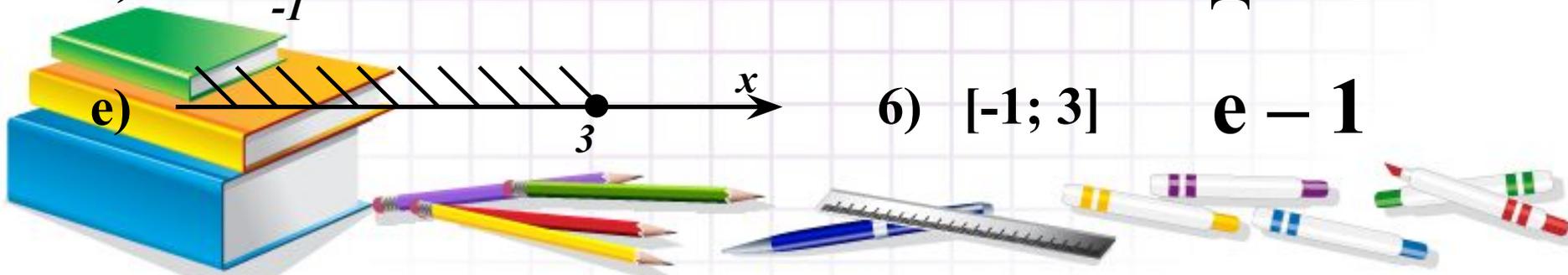
5) $(-1; 3)$

д – 4



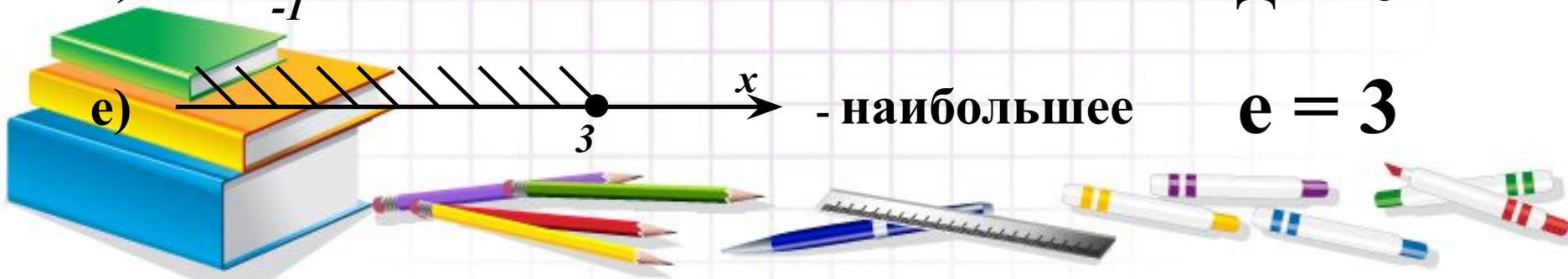
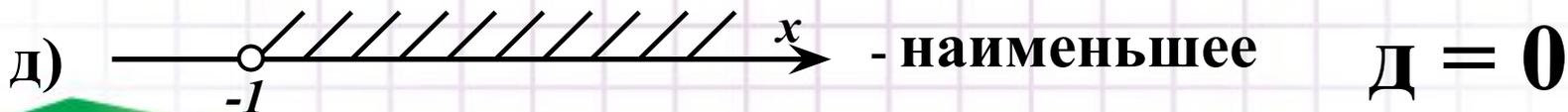
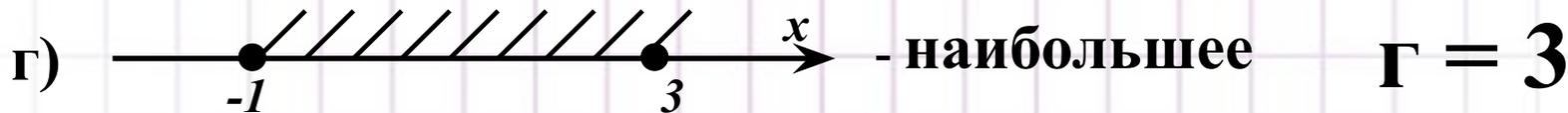
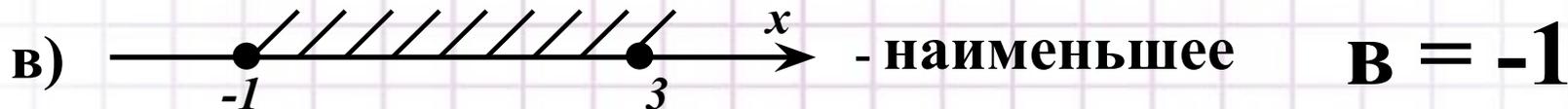
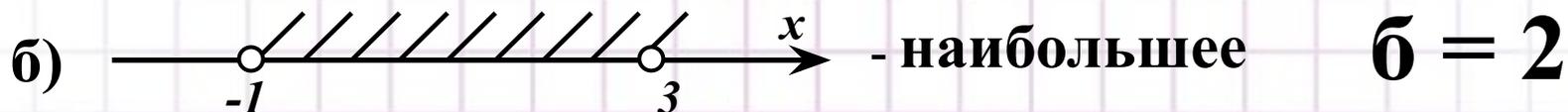
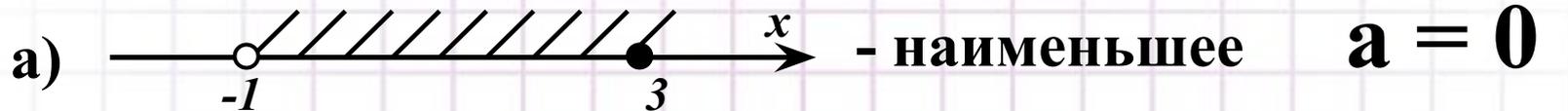
6) $[-1; 3]$

е – 1



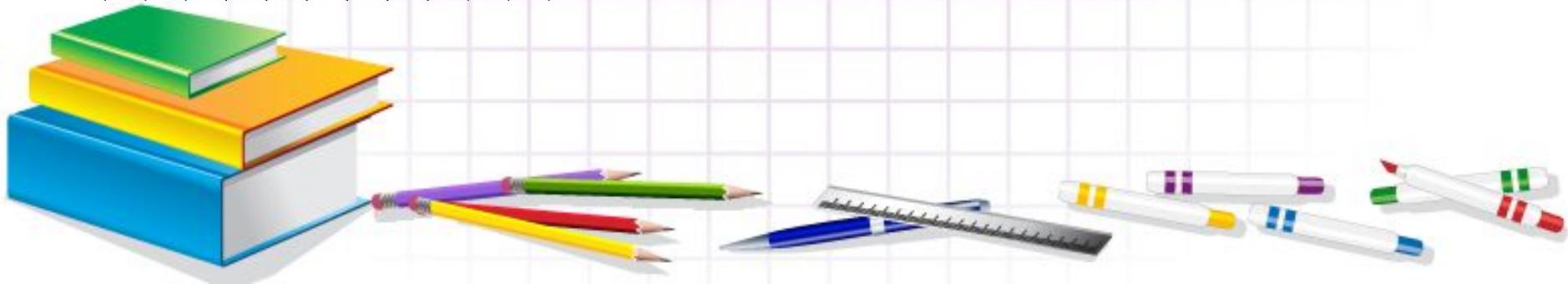
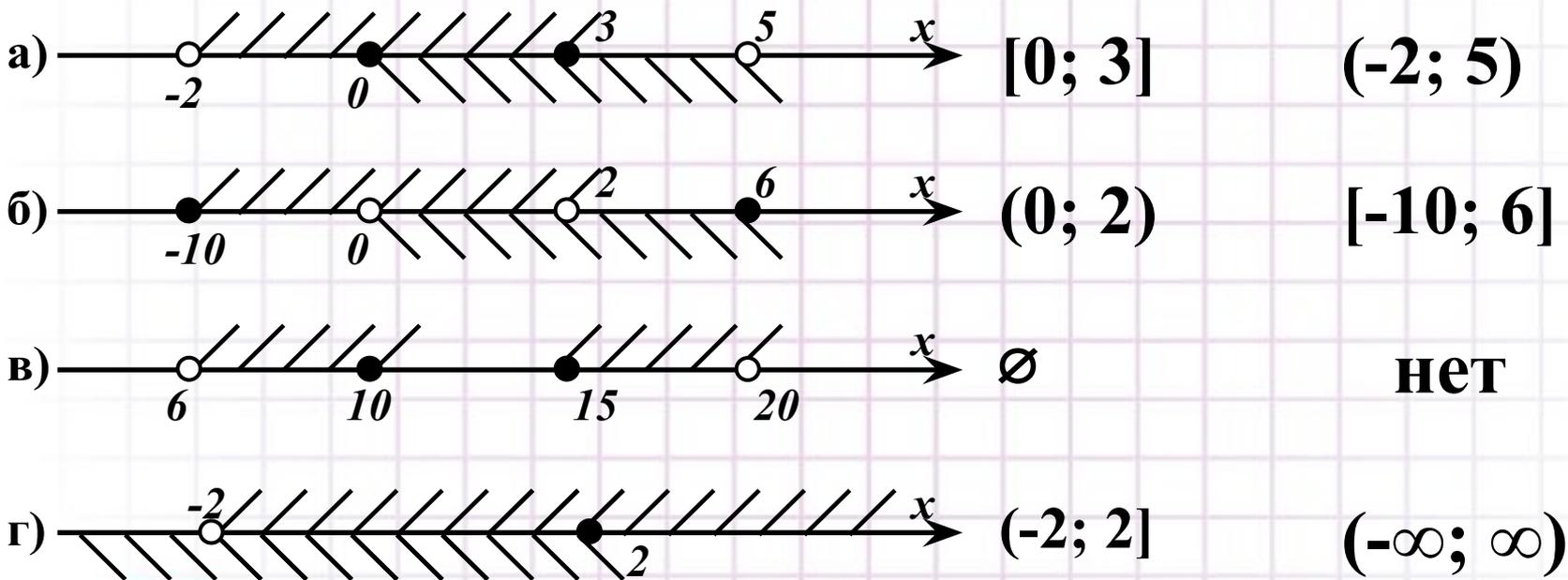
ТЕСТ: задание 2 – найти в данных промежутках следующие целые числа:

ОТВЕТЫ:



ТЕСТ: задание 3 – найти пересечение и объединение числовых промежутков

Пересечение: Объединение:



Спасибо за работу на уроке!

