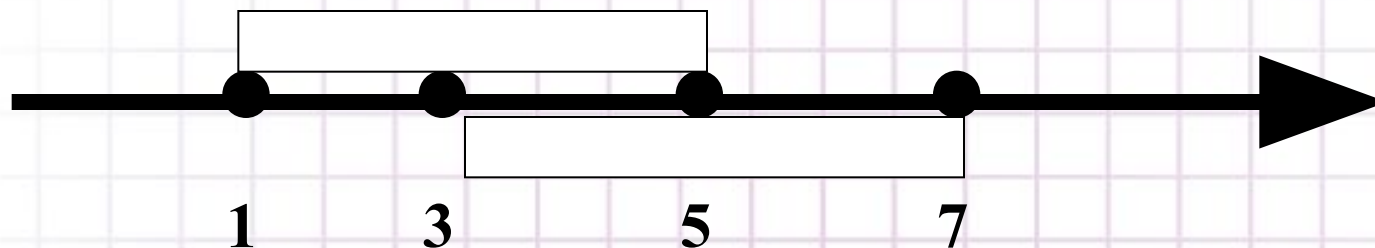


# Числовые промежутки



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

$[1; 5]$

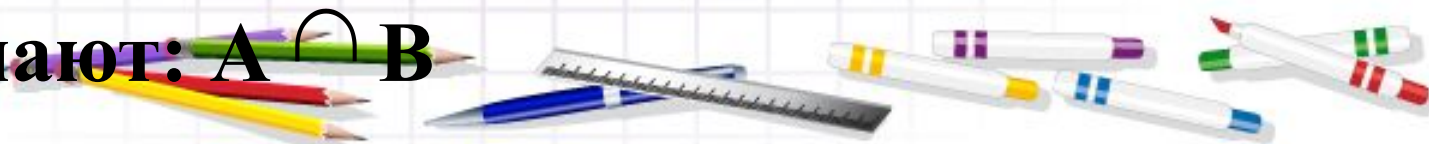


$[3; 7]$

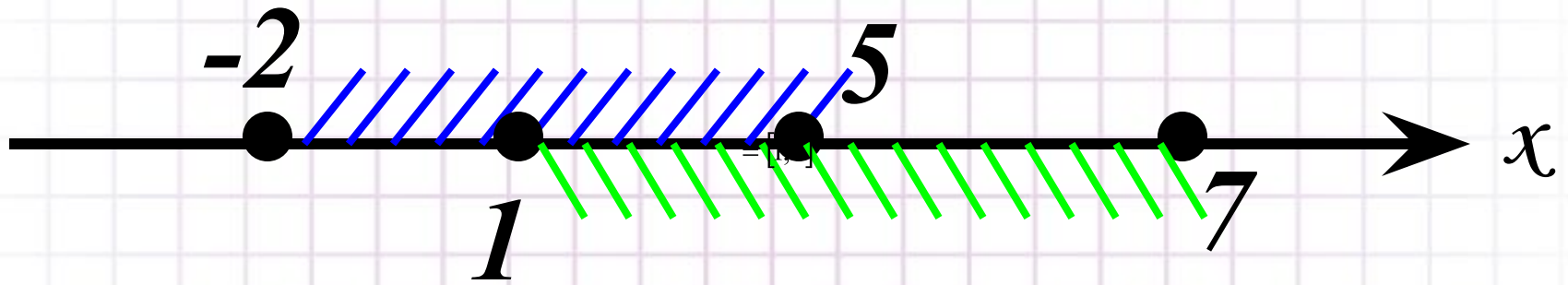
$[3; 5]$  - **Общая часть**

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

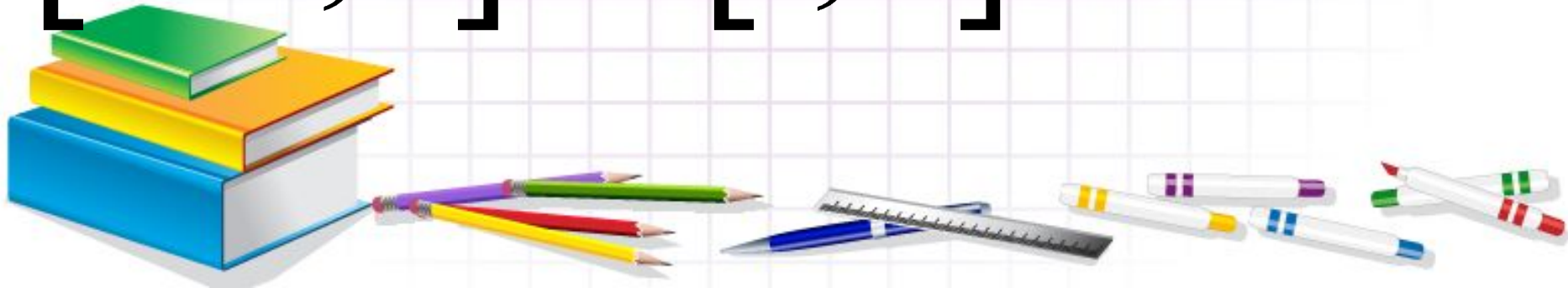
Обозначают:  $A \cap B$

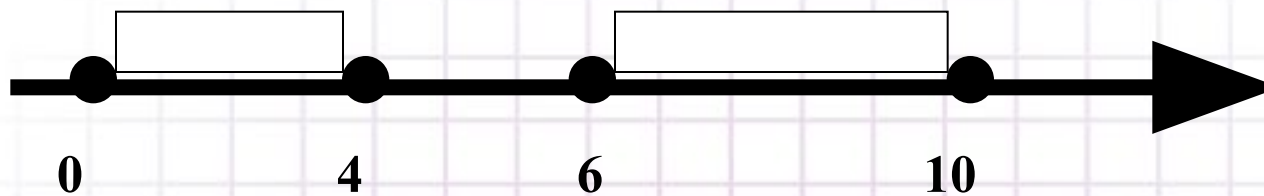


# Пересечение промежутков.



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



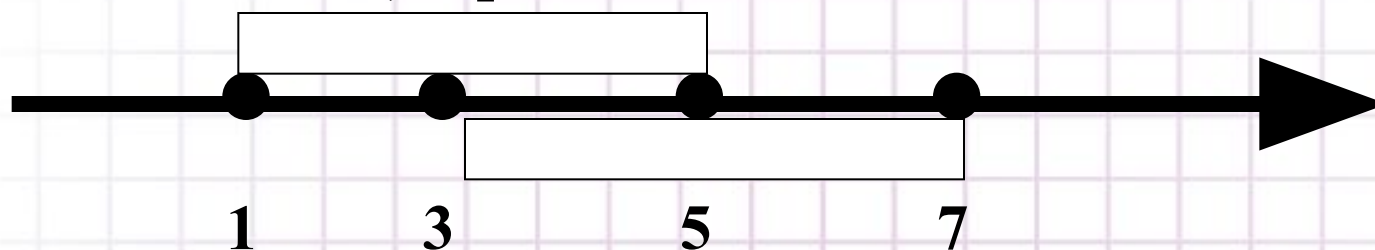


**Пересечение промежутков  $[0; 4]$  и  $[6; 10]$   
пустое множество**



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

[1; 5]



[3; 7]

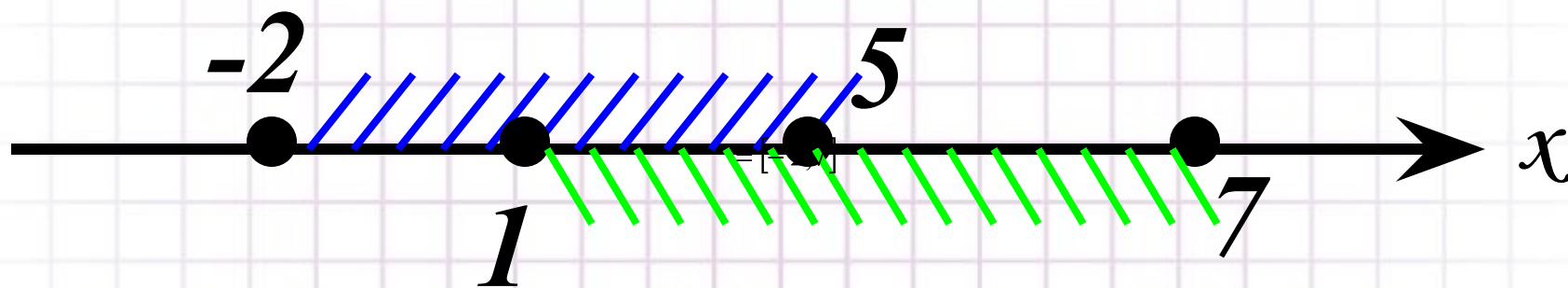
Множество, состоящее из элементов, принадлежащих хотя бы одному из множеств  $A$  и  $B$ , называют *объединением* этих множеств.



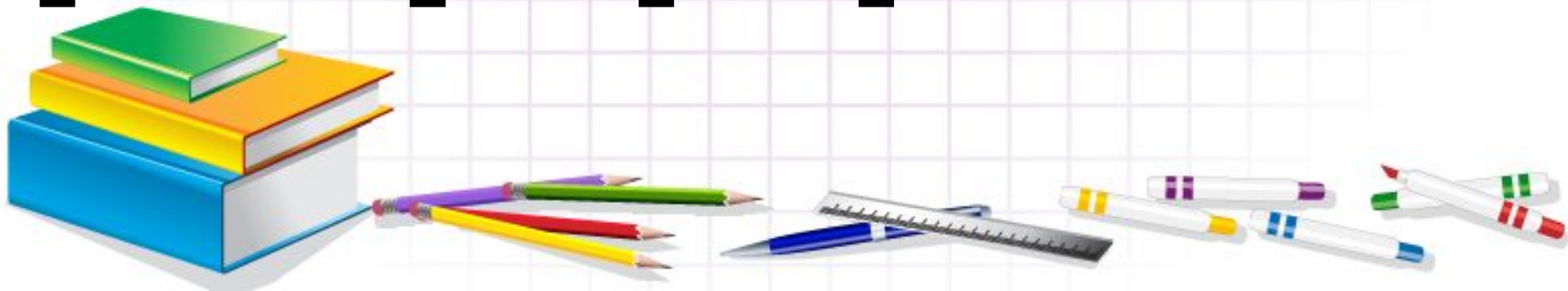
**Обозначают:  $A \cup B$**

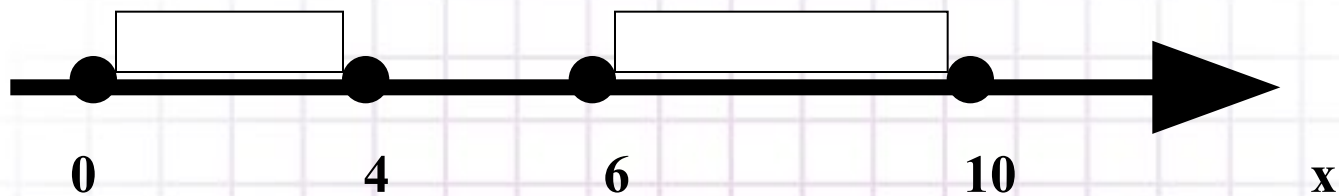


# Объединение промежутков.



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

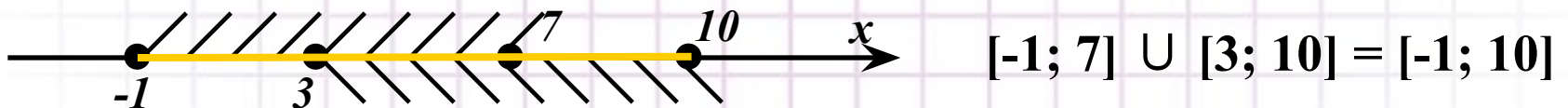
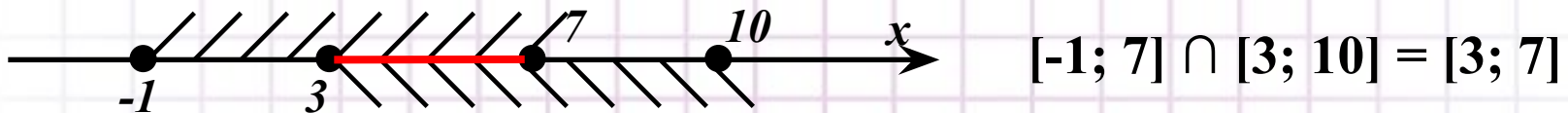
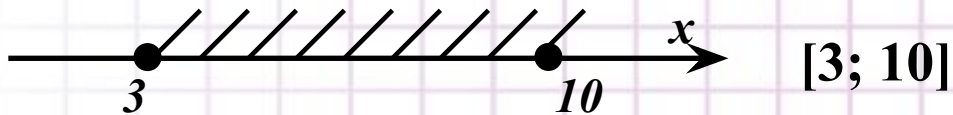
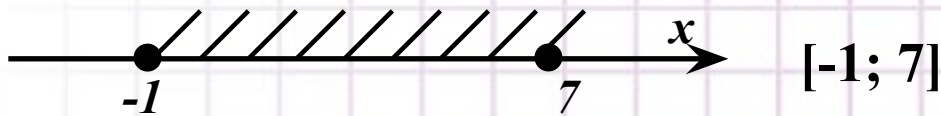




**[0; 4] U [6; 10] Не является промежутком**

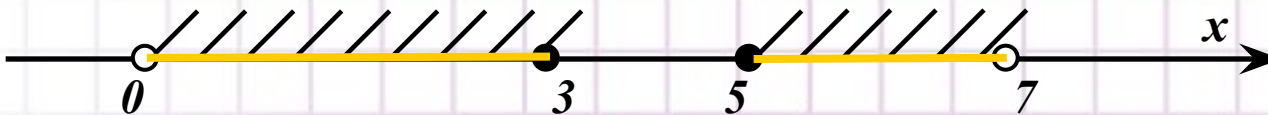
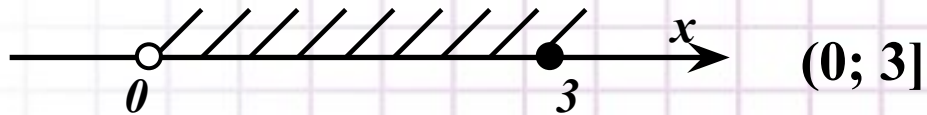


# Пересечение и объединение числовых промежутков



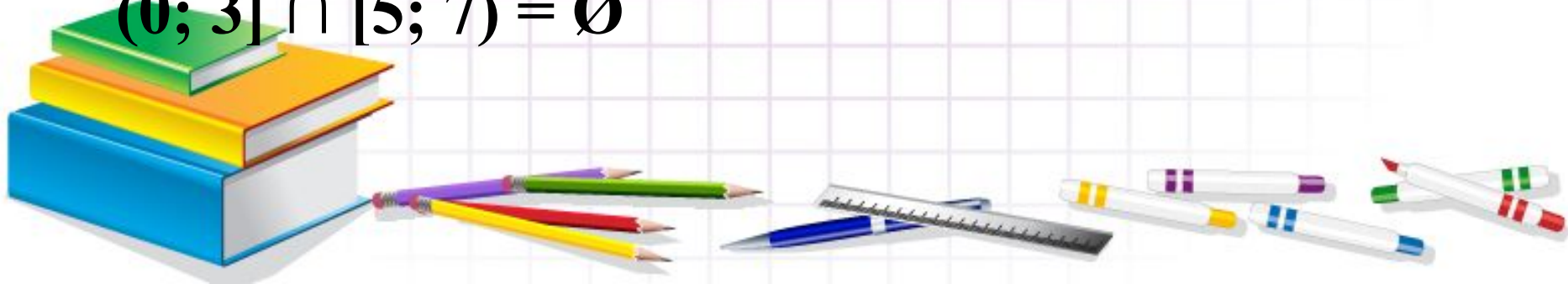


# Пересечение и объединение числовых промежутков

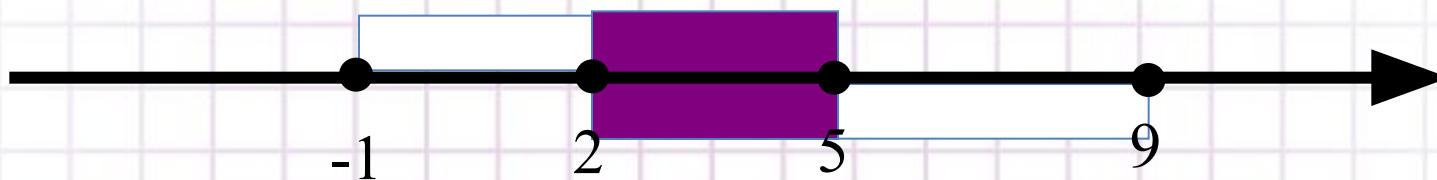


$(0; 3] \cup [5; 7)$  - объединение

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



# Пересечение и объединение числовых промежутков

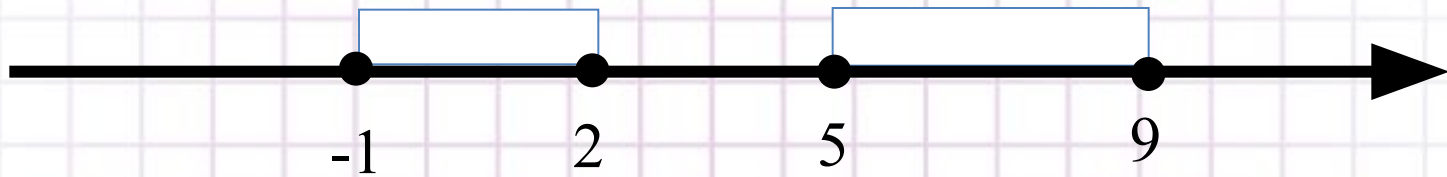


Пересечение:  $[-1; 5] \cap [2; 9] = [2; 5]$

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



# Пересечение и объединение числовых промежутков



Пересечение:

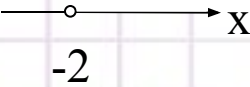
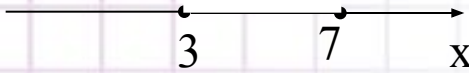
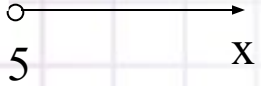
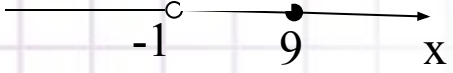

$$[-1; 2] \cap [5; 9] = \emptyset$$

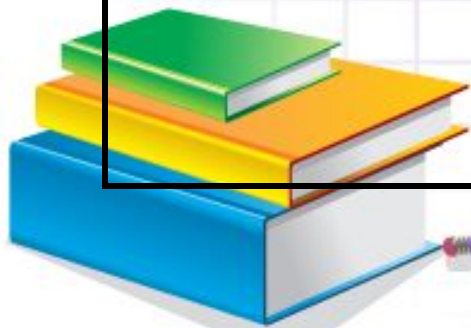
Объединение:

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

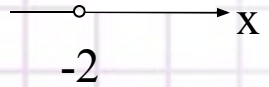
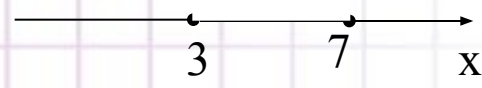
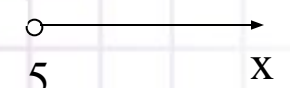




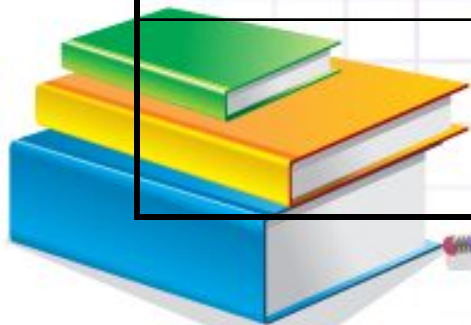
# Заполни таблицу

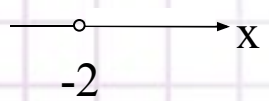
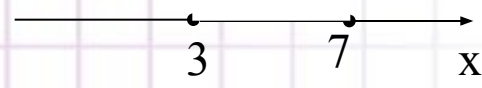
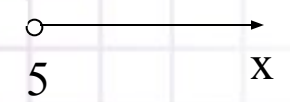




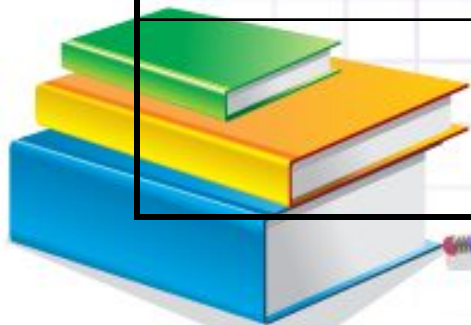
# Заполни таблицу

$(-2; +\infty)$		
		
		
		
		

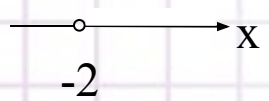
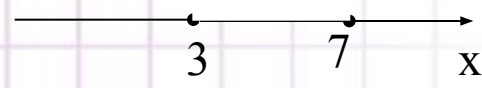
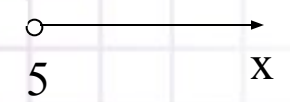




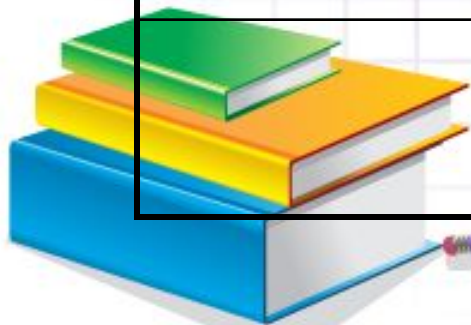
# Заполни таблицу

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

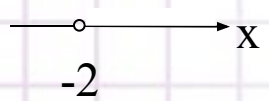
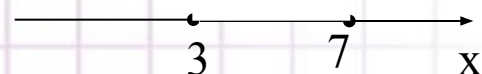
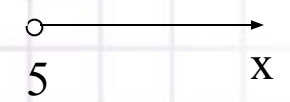




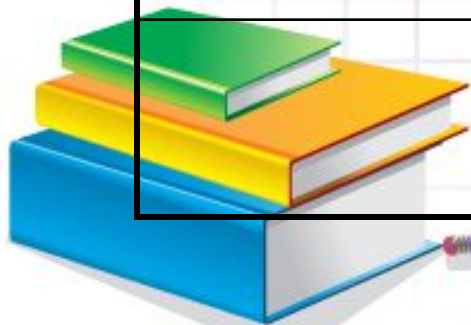
# Заполни таблицу

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



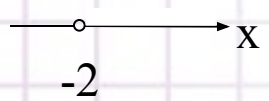
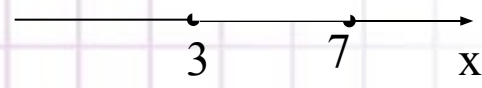
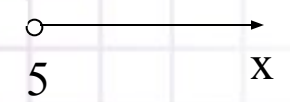


# Заполни таблицу

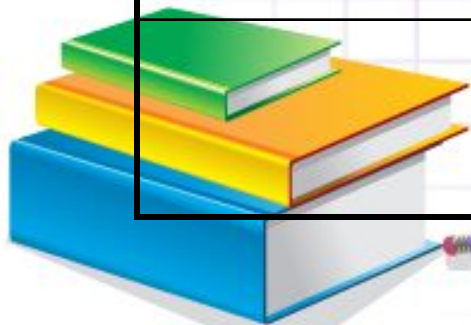
$(-2; +\infty)$	$X > -2$	
$[3; 7]$	$3 \leq X \leq 7$	
		
		
		



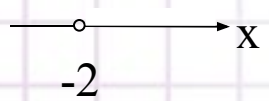
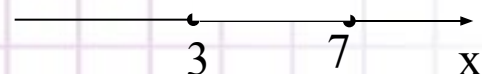
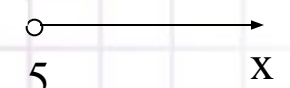




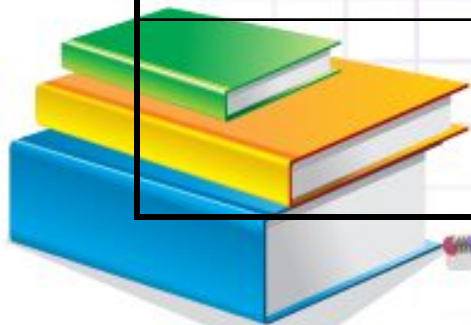
# Заполни таблицу

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

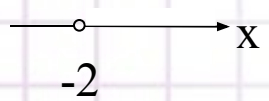
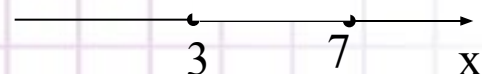
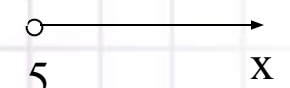
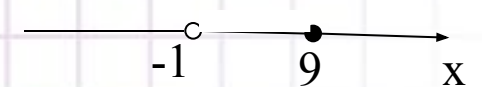



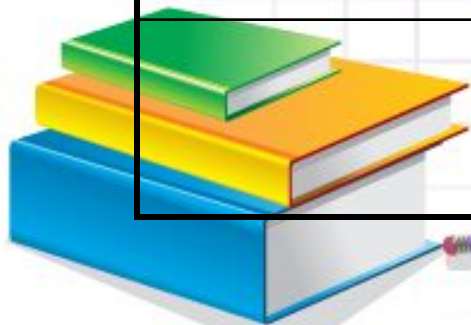
# Заполни таблицу

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

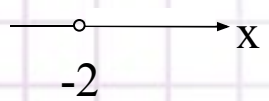
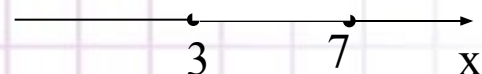
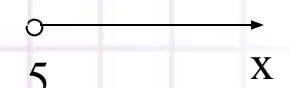
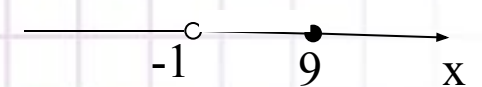



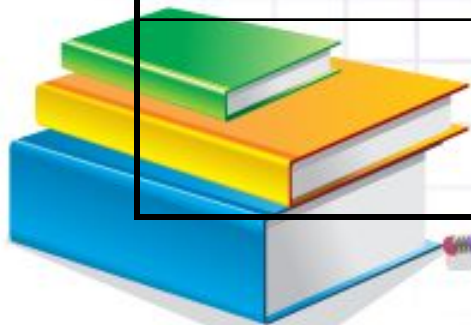
# Заполни таблицу

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

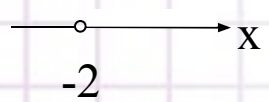
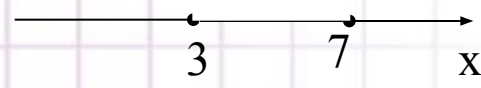
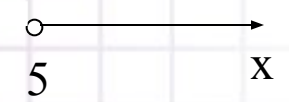
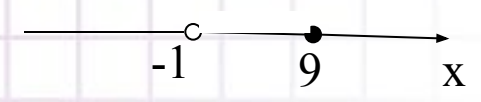



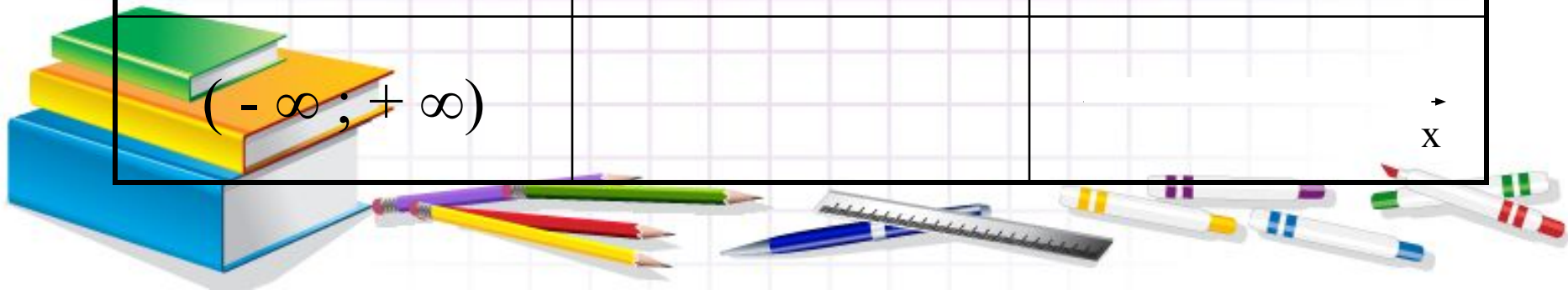
# Заполни таблицу

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

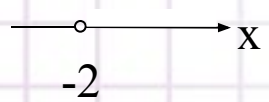
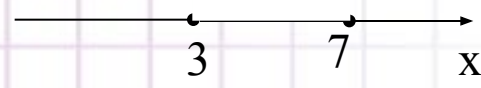
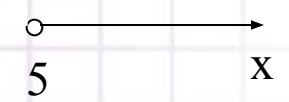
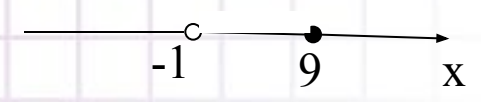



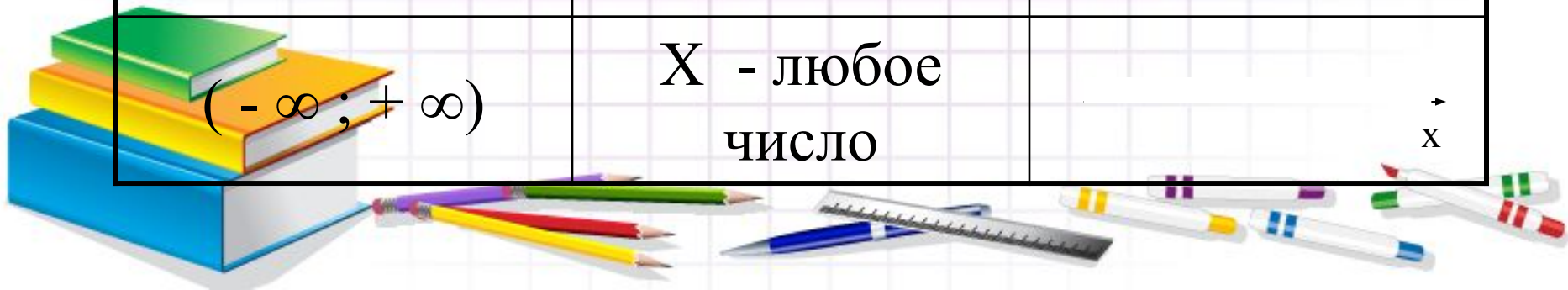
# Заполни таблицу

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



# 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



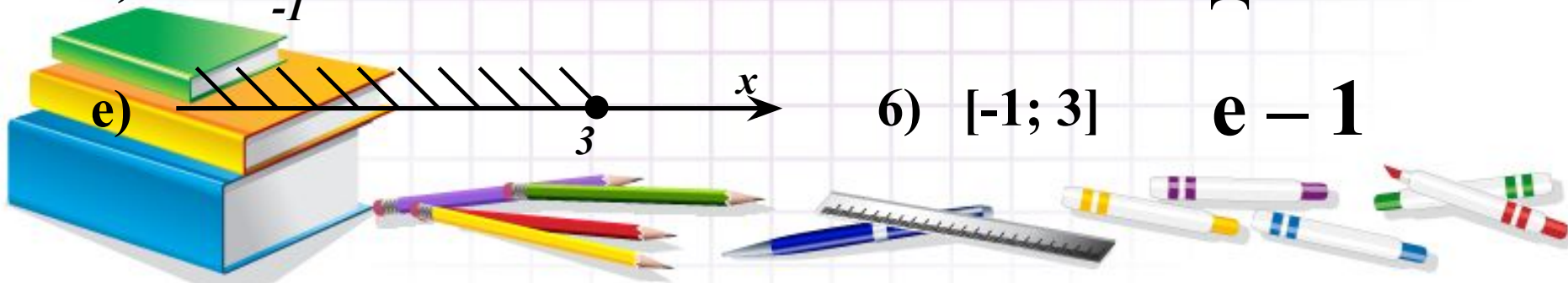
5)  $(-1; 3)$

д – 4



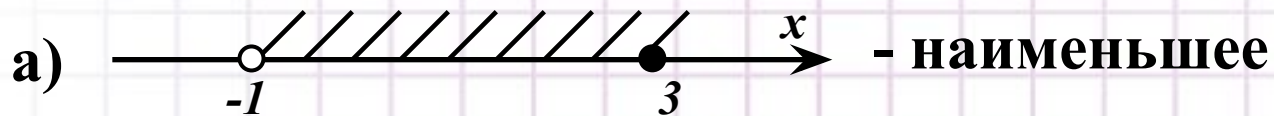
6)  $[-1; 3]$

е – 1

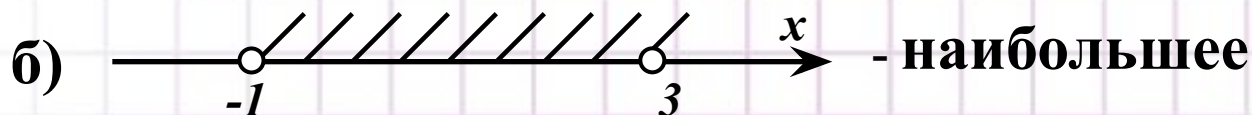


# ТЕСТ: задание 2 – найти в данных промежутках следующие целые числа:

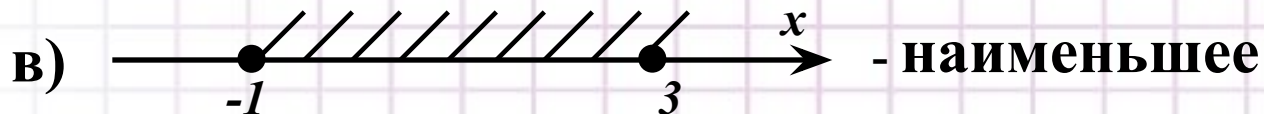
ОТВЕТЫ:



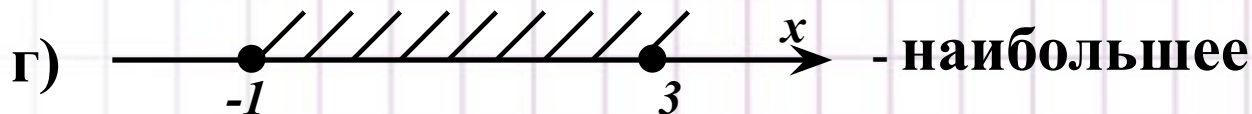
$$a = 0$$



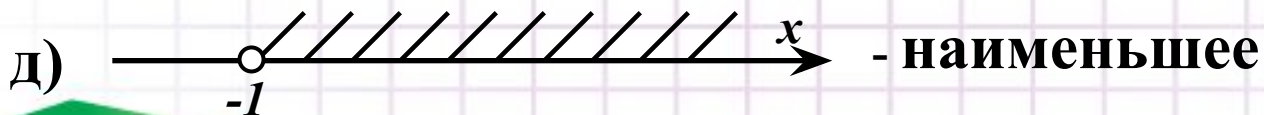
$$б = 2$$



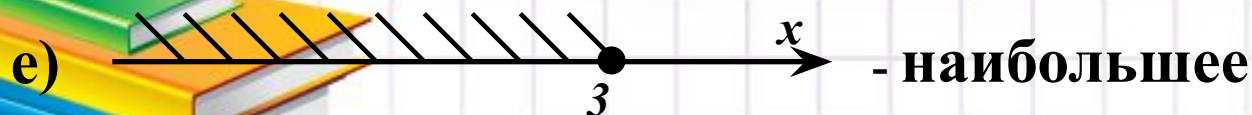
$$в = -1$$



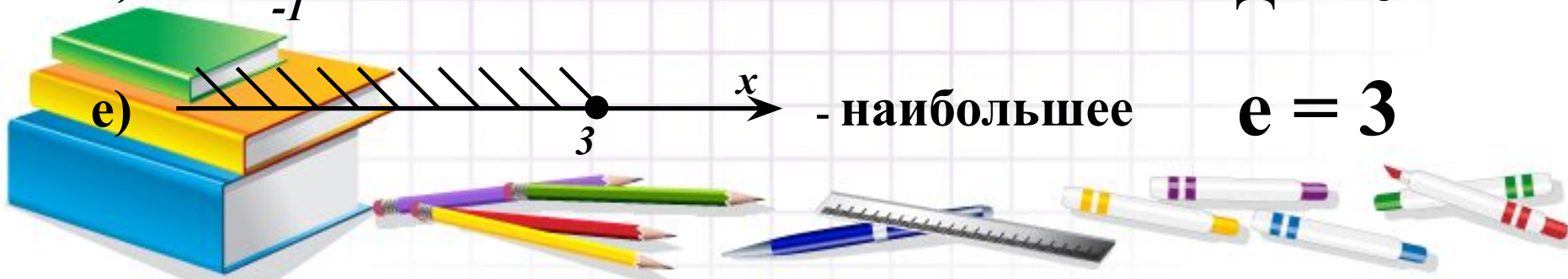
$$г = 3$$



$$д = 0$$



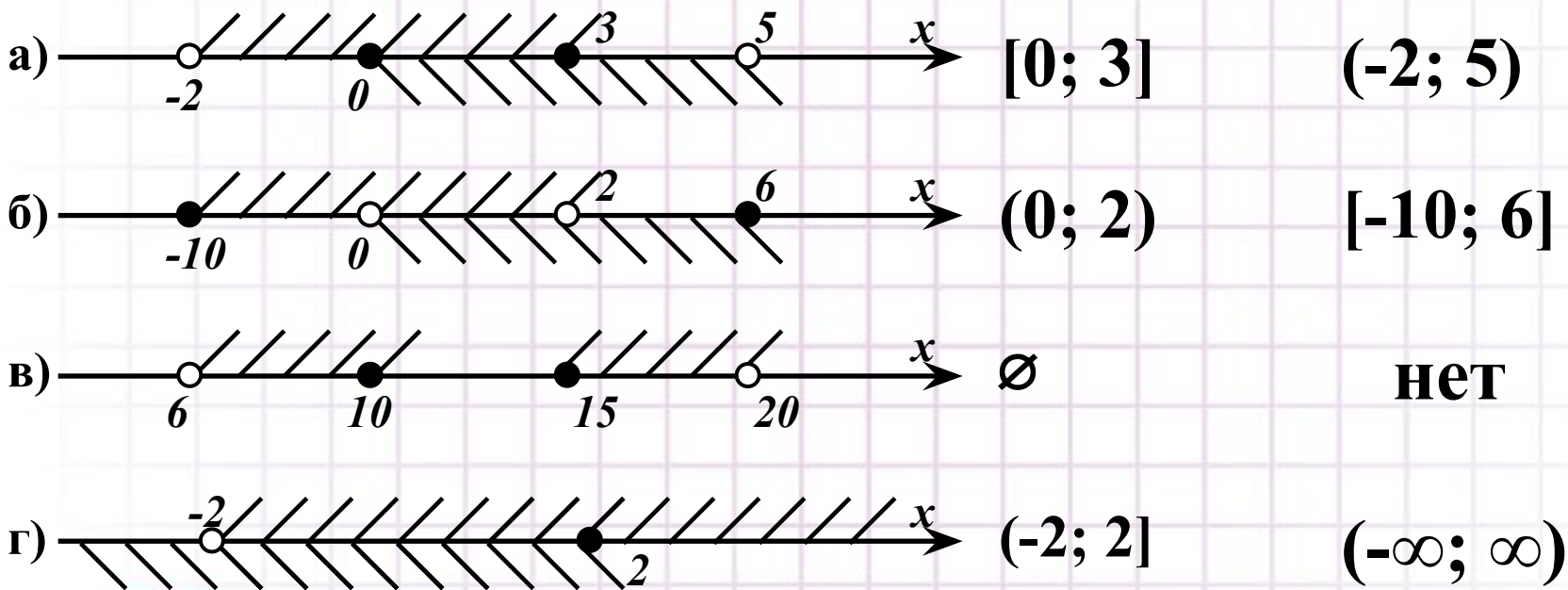
$$е = 3$$





# ТЕСТ: задание 3 – найти пересечение и объединение числовых промежутков

Пересечение: Объединение:



Спасибо за работу на уроке!

