

A close-up photograph of geometric drawing tools on a white sheet of paper. In the foreground, a blue pencil with a yellow eraser and a sharp lead tip lies diagonally. To its right, a pair of brass compasses is open, with its legs resting on a technical drawing. The drawing features several faint pencil lines, including a large circle and a series of intersecting lines forming a grid-like pattern. In the upper left, a portion of a white ruler with black markings is visible, showing numbers from 4 to 10. The text «Подобные слагаемые» is overlaid in the center of the image in a bold, black, sans-serif font.

«Подобные слагаемые»

	-4	-3	-2	-1	0	1	2	3	4
3					.				
2	.								
1				.					
0			.						
-1				.					
-2			.				.		
-3		.							



Укажите пары подобных слагаемых

- $2x; -7y; 4xy; -6x; 12y; xy.$

- *Не ошибись!*

$$3(2a-3b)=6a - 9b.$$

$$-4(x + 2y - 2z)=-4x-8y+8z$$

$$-3.(7m+3n-c)=-21m-9n+3c$$

$$(6b+2a-7)2=12 +4a-14$$

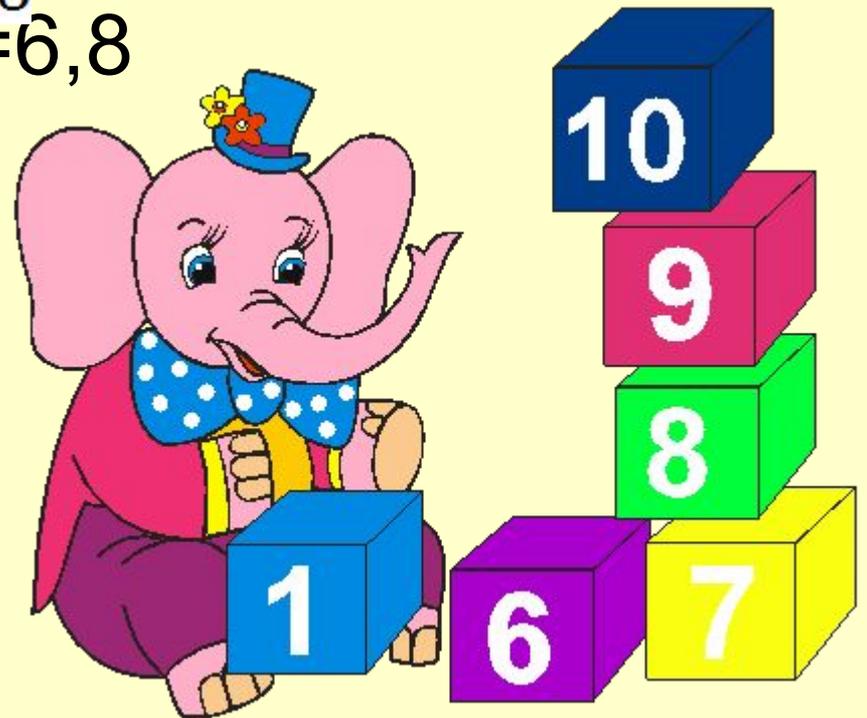
№ 1286(6)

$$-9,5m + 3$$

$$m = -2, \quad -9,5(-2) + 3 = 22$$

$$m = -\frac{1}{8}, \quad -9,5\left(-\frac{1}{8}\right) + 3 = 4\frac{3}{16}$$

$$m = -0,4, \quad -9,5(-0,4) + 3 = 6,8$$



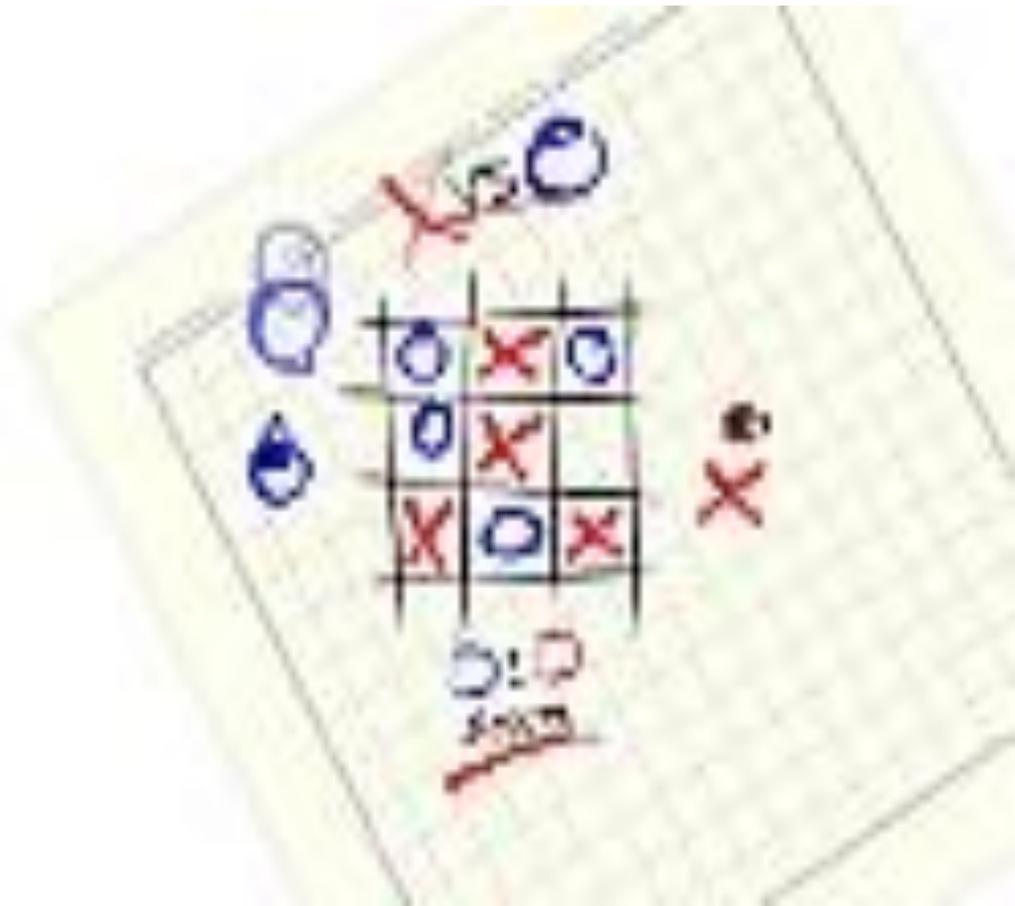
Правила раскрытия скобок

$$a + (b - c) = a + b - c$$

$$a + (-b + c) = a - b + c$$

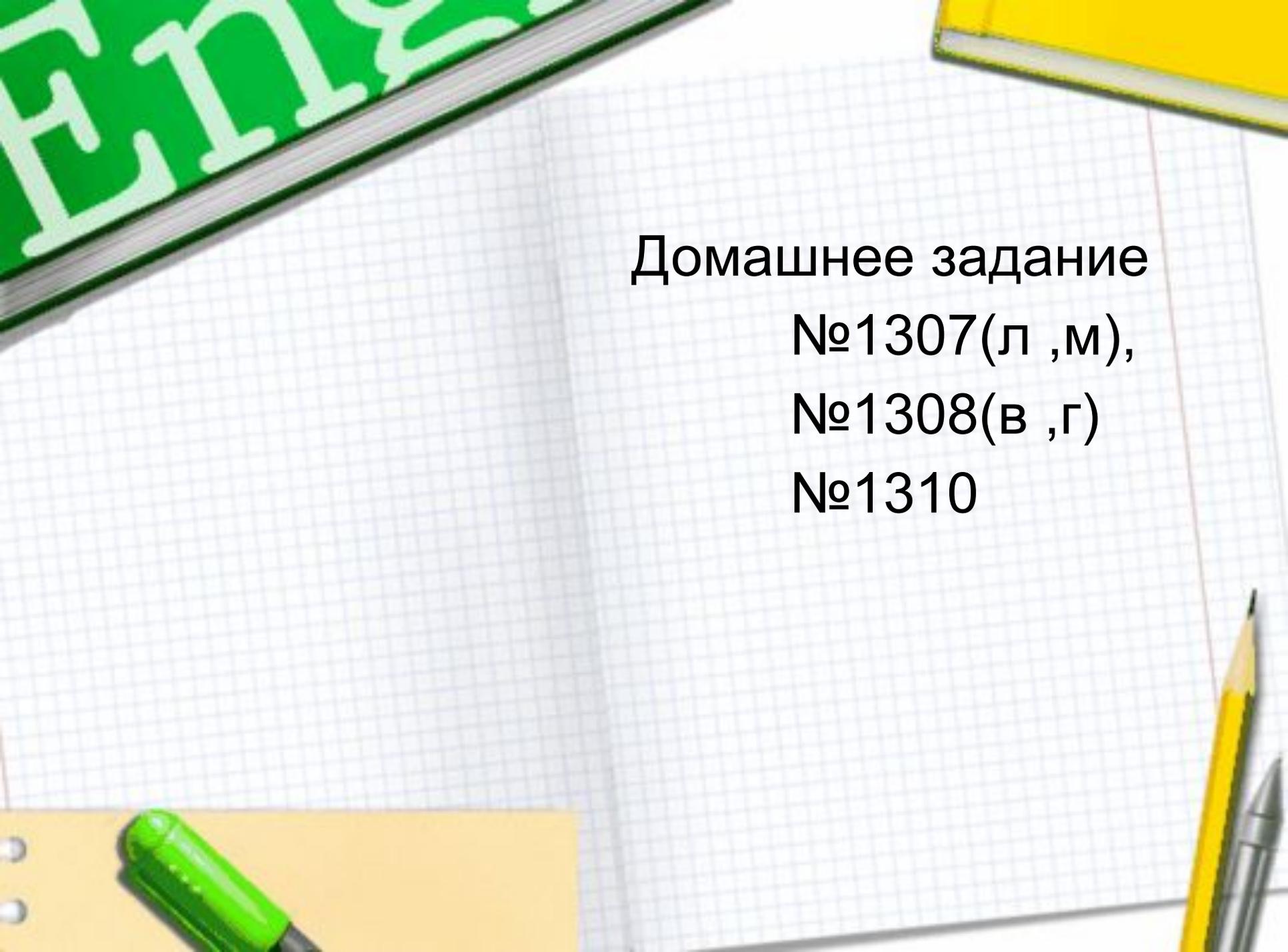
$$a - (b + c) = a - b - c$$

$$a - (-b - c) = a + b + c$$



Заполните таблицу

	$(2a+b)$	$(-3x+y)$	$(6y-2x)$	$(18b+2c-3d)$	$(8y+12x)$
+	$2a+b$	$-3x+y$	$6y-2x$	$18b+2c-3d$	$8y+12x$
-	$-2a-b$	$3x-y$	$-6y+2x$	$-18b-2c+3d$	$-8y-12x$



Домашнее задание

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1 вариант

2 вариант

1. Раскройте скобки и приведите подобные слагаемые:

$$1) (5x - 7y) - 8x + 13y = b$$

$$2) 2(x + 3) - 4(x + 3) = a$$

$$3) -3\left(\frac{1}{3}x + 9\right) + a = c$$

$$1) -9x - 15y + 7y + 18x + 14y = b$$

$$2) 4(0,2x - 7) - 5(0,3x + 6) = a$$

$$3) -\frac{1}{5}(0,2x + 60) - a = c$$

2. Упростите выражение и найдите его значение:

$$4c + 2y + 5x = d, \text{ при } x = 1,2 \text{ } y = -0,4 \quad 10c - 3(0,2x + 0,4y) = d, \text{ при } x = 1,5 \text{ } y = -2$$

3. Решите уравнение:

$$3(3x + 4) - (7x + 12) = d$$

$$-2(9x + 13) + (28x + 26) = d$$

Отвeты:

1) $-70,6$

2) $-141,2$

3) $-2x-6$

4) $-3x-33$

5) $-3x+6y$

1) $0,66c+46$

2) $-0,7x-58$

3) $471,4$

4) $-x+6y$

5) $47,14$

