

1次式の加法と減法(1)

1次式のまとめ方

- ・ 1次式の加法と減法は、1次の項と定数項それぞれで計算
- 係数に注目し、
分配法則を用いて計算する

$$ax + bx = (a + b)x$$

<例>

$$2x + 3x = (2 + 3)x = 5x$$

係数に注目

$$8a - 5a = (8 - 5)a = 3a$$

1次の項と定数項
それぞれで計算

$$\begin{aligned} & \underline{3a} + \underline{3} + \underline{8a} + \underline{4} \\ &= \underline{3a + 8a} + \underline{3 + 4} \\ &= \underline{(3 + 8)a} + \underline{3 + 4} \\ &= \underline{11a + 7} \end{aligned}$$

$$\begin{aligned} & \underline{x} + \underline{1} - \underline{5x} - \underline{7} \\ &= \underline{x - 5x} + \underline{1 - 7} \\ &= \underline{(1 - 5)x} + \underline{1 - 7} \\ &= \underline{-4x - 6} \end{aligned}$$

<確認問題>

次の計算をせよ。

(1) $2x + 8 + 3x$

(5) $3a + 1 - 4a - 6$

(2) $4x + 2x - 7$

(6) $8x + 1 + x - 1$

(3) $2x - x + 1$

(7) $7x + 5 - 7x - 9$

(4) $x - 6x + 1 + 3$

(8) $3a + 2 - 3a - 2$

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次の計算をせよ。

(1) $2x + 8 + 3x$

$$\begin{aligned} & 2x + 8 + 3x \\ &= (2 + 3)x + 8 \\ &= 5x + 8 \end{aligned}$$

(2) $4x + 2x - 7$

$$\begin{aligned} & 4x + 2x - 7 \\ &= (4 + 2)x - 7 \\ &= 6x - 7 \end{aligned}$$

(3) $2x - x + 1$

$$\begin{aligned} & 2x - x + 1 \\ &= (2 - 1)x + 1 \\ &= x + 1 \end{aligned}$$

(4) $x - 6x + 1 + 3$

$$\begin{aligned} & x - 6x + 1 + 3 \\ &= (1 - 6)x + 1 + 3 \\ &= -5x + 4 \end{aligned}$$

(5) $3a + 1 - 4a - 6$

$$\begin{aligned} & 3a + 1 - 4a - 6 \\ &= (3 - 4)a + 1 - 6 \\ &= -a - 5 \end{aligned}$$

(6) $8x + 1 + x - 1$

$$\begin{aligned} & 8x + 1 + x - 1 \\ &= (8 + 1)x + 1 - 1 \\ &= 9x \end{aligned}$$

(7) $7x + 5 - 7x - 9$

$$\begin{aligned} & 7x + 5 - 7x - 9 \\ &= (7 - 7)x + 5 - 9 \\ &= -4 \end{aligned}$$

(8) $3a + 2 - 3a - 2$

$$\begin{aligned} & 3a + 2 - 3a - 2 \\ &= (3 - 3)a + 2 - 2 \\ &= 0 \end{aligned}$$