

1次式の加法と減法② 解答と解説

1. **解答** (1) $5a+3$ (2) $8x+2$ (3) $6a+3$ (4) $-2x-5$

$$\begin{aligned} (1) \quad (3a+5)+(2a-2) &= 3a+5+2a-2 \\ &= 3a+2a+5-2 \\ &= 5a+3 \end{aligned}$$

$$\begin{aligned} (2) \quad (5x-4)+(3x+6) &= 5x-4+3x+6 \\ &= 5x+3x-4+6 \\ &= 8x+2 \end{aligned}$$

$$\begin{aligned} (3) \quad (7a+1)+(-a+2) &= 7a+1-a+2 \\ &= 7a-a+1+2 \\ &= 6a+3 \end{aligned}$$

$$\begin{aligned} (4) \quad (4x-3)+(-6x-2) &= 4x-3-6x-2 \\ &= 4x-6x-3-2 \\ &= -2x-5 \end{aligned}$$

2. **解答** (1) $3a-6$ (2) $2x+8$ (3) $6a+6$ (4) $9x-3$

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

$$\begin{aligned} (2) \quad (5x+4)-(3x-4) &= 5x+4-3x+4 \\ &= 5x-3x+4+4 \\ &= 2x+8 \end{aligned}$$

$$\begin{aligned} (3) \quad (a+8)-(-5a+2) &= a+8+5a-2 \\ &= a+5a+8-2 \\ &= 6a+6 \end{aligned}$$

$$\begin{aligned} (4) \quad (2x-6)-(-7x-3) &= 2x-6+7x+3 \\ &= 2x+7x-6+3 \\ &= 9x-3 \end{aligned}$$

3. **解答** (1) $11x-3$ (2) $-5a-8$ (3) $2x-3$ (4) -6 (5) $16y-7$

(6) $3a+11$ (7) $x-3$

$$\begin{aligned} (1) \quad (4x-1)+(7x-2) &= 4x-1+7x-2 \\ &= 4x+7x-1-2 \\ &= 11x-3 \end{aligned}$$

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

$$\begin{aligned} (3) \quad (-6x+2)+(-5+8x) &= -6x+2-5+8x \\ &= -6x+8x+2-5 \\ &= 2x-3 \end{aligned}$$

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

$$\begin{aligned} (5) \quad (3+12y)-(-4y+10) &= 3+12y+4y-10 \\ &= 12y+4y+3-10 \\ &= 16y-7 \end{aligned}$$

$$\begin{aligned} (6) \quad (11a-3)+(14-8a) &= 11a-3+14-8a \\ &= 11a-8a-3+14 \\ &= 3a+11 \end{aligned}$$

$$\begin{aligned} (7) \quad (-15+6x)-(-12+5x) &= -15+6x+12-5x \\ &= 6x-5x-15+12 \\ &= x-3 \end{aligned}$$