

## 同類項をまとめる① 解答と解説

1 解答 (1)  $6x + y$  (2)  $-2a - 6b$  (3)  $4x^2 + 4x$  (4)  $7a^2 - 8a$

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

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

$$\begin{aligned}(3) \quad 6x^2 - x - 2x^2 + 5x &= 6x^2 - 2x^2 - x + 5x \\ &= (6 - 2)x^2 + (-1 + 5)x \\ &= 4x^2 + 4x\end{aligned}$$

$$\begin{aligned}(4) \quad 8a^2 - 5a - 3a - a^2 &= 8a^2 - a^2 - 5a - 3a \\ &= (8 - 1)a^2 + (-5 - 3)a \\ &= 7a^2 - 8a\end{aligned}$$

2 解答 (1)  $10ab - 13a$  (2)  $3y + 3$  (3)  $-x^2 + 9x - 3$  (4)  $-4a^2 - 4a - 2$

$$\begin{aligned}(1) \quad 8ab - 6a - 7a + 2ab &= 8ab + 2ab - 6a - 7a \\ &= (8 + 2)ab + (-6 - 7)a \\ &= 10ab - 13a\end{aligned}$$

$$\begin{aligned}(2) \quad 5x - 4y + 3 - 5x + 7y &= 5x - 5x - 4y + 7y + 3 \\ &= (5 - 5)x + (-4 + 7)y + 3 \\ &= 3y + 3\end{aligned}$$

$$\begin{aligned}(3) \quad 4x^2 + 3x - 1 - 5x^2 + 6x - 2 &= 4x^2 - 5x^2 + 3x + 6x - 1 - 2 \\ &= (4 - 5)x^2 + (3 + 6)x + (-1 - 2) \\ &= -x^2 + 9x - 3\end{aligned}$$

$$\begin{aligned}(4) \quad 2a^2 - 9 - 8a + 7 + 4a - 6a^2 &= 2a^2 - 6a^2 - 8a + 4a - 9 + 7 \\ &= (2 - 6)a^2 + (-8 + 4)a + (-9 + 7) \\ &= -4a^2 - 4a - 2\end{aligned}$$