

－多項式の加法と減法の計算ができるようになるう－ p.11

学習日 月 日

年 組 番 氏名

1 次の計算をしなさい。(p.11)

(1)  $(4x + 3y) + (2x - 5y)$

(2)  $(2x + 3y) + (3x + 4y)$

(3)  $(a + 7b) + (8a - 5b)$

(4)  $(a - 3b) + (-3b - 4a)$

(5)  $(3x^2 - 4x + 6) + (-8x^2 + 6x - 7)$

(6) 
$$\begin{array}{r} 7x - 2y + 5 \\ +) \quad -3x + 5y - 2 \\ \hline \end{array}$$

2 次の計算をしなさい。(p.11)

(1)  $(5x - 3y) - (3x + 2y)$

(2)  $(8x + 7y) - (5x - 2y)$

(3)  $(4a - 6b) - (7a - 8b)$

(4)  $(2a - 3b) - (-3b - 4a)$

(5)  $(-a^2 + 7a - 3) - (5a^2 - 2a - 3)$

(6) 
$$\begin{array}{r} 7x^2 - 2x + 5 \\ -) \quad -3x^2 + 5x - 2 \\ \hline \end{array}$$

3 2つの式  $a - 6b$  ,  $5a + 2b$  について、(1), (2)の間に答えなさい。

(1) 2つの式の和を求めなさい。

(2) 左の式から右の式を引いた差を求めなさい。

1

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

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

$$\begin{aligned}
 (3) \quad & (a + 7b) + (8a - 5b) \\
 &= a + 8a + 7b - 5b \\
 &= 9a + 2b
 \end{aligned}$$

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

$$\begin{aligned}
 (5) \quad & (3x^2 - 4x + 6) + (-8x^2 + 6x - 7) \\
 &= -5x^2 + 2x - 1
 \end{aligned}$$

$$\begin{array}{r}
 (6) \quad \quad \quad 7x - 2y + 5 \\
 +) \quad \quad \quad -3x + 5y - 2 \\
 \hline
 \quad \quad \quad 4x + 3y + 3
 \end{array}$$

2

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

$$\begin{aligned}
 (2) \quad & (8x + 7y) - (5x - 2y) \\
 &= 8x + 7y - 5x + 2y \\
 &= 8x - 5x + 7y + 2y \\
 &= 3x + 9y
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & (4a - 6b) - (7a - 8b) \\
 &= 4a - 6b - 7a + 8b \\
 &= -3a + 2b
 \end{aligned}$$

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

$$\begin{aligned}
 (5) \quad & (-a^2 + 7a - 3) - (5a^2 - 2a - 3) \\
 &= -a^2 + 7a - 3 - 5a^2 + 2a + 3 \\
 &= -6a^2 + 9a
 \end{aligned}$$

$$\begin{array}{r}
 (6) \quad \quad \quad 7x^2 - 2x + 5 \\
 -) \quad \quad \quad -3x^2 + 5x - 2 \\
 \hline
 \quad \quad \quad 10x^2 - 7x + 7
 \end{array}$$

3

$$\begin{aligned}
 (1) \quad & (a - 6b) + (5a + 2b) \\
 &= a + 5a - 6b + 2b \\
 &= 6a - 4b
 \end{aligned}$$

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