

1 次の計算をなさい。

①  $x(x+y+4)$

②  $2a(3a-2b+5)$

③  $5a(4a+3b-7)$

④  $8x(5x-4y-6)$

⑤  $4a(3ab-7b+2)$

⑥  $3x(xy-4x+y)$

2 次の計算をなさい。

①  $(x-y+2) \times (-3x)$

②  $(2x+3y+2) \times (-4x)$

③  $(3a-2b+7) \times (-2a)$

④  $(a-6b+2) \times (-5a)$

⑤  $(5x+y-4) \times (-4x)$

⑥  $(4a-2b-3) \times (-7a)$

1 次の計算をなさい。

$$\textcircled{1} \quad x(x+y+4)$$

$$= x \times x + x \times y + x \times 4$$

$$= x^2 + xy + 4x$$

$$\textcircled{2} \quad 2a(3a-2b+5)$$

$$= 2a \times 3a + 2a \times (-2b) + 2a \times 5$$

$$= 6a^2 - 4ab + 10a$$

$$\textcircled{3} \quad 5a(4a+3b-7)$$

$$= 5a \times 4a + 5a \times 3b + 5a \times (-7)$$

$$= 20a^2 + 15ab - 35a$$

$$\textcircled{4} \quad 8x(5x-4y-6)$$

$$= 8x \times 5x + 8x \times (-4y) + 8x \times (-6)$$

$$= 40x^2 - 32xy - 48x$$

$$\textcircled{5} \quad 4a(3ab-7b+2)$$

$$= 4a \times 3ab + 4a \times (-7b) + 4a \times 2$$

$$= 12a^2b - 28ab + 8a$$

$$\textcircled{6} \quad 3x(xy-4x+y)$$

$$= 3x \times xy + 3x \times (-4x) + 3x \times y$$

$$= 3x^2y - 12x^2 + 3xy$$

2 次の計算をなさい。

$$\textcircled{1} \quad (x-y+2) \times (-3x)$$

$$= x \times (-3x) - y \times (-3x) + 2 \times (-3x)$$

$$= -3x^2 + 3xy - 6x$$

$$\textcircled{2} \quad (2x+3y+2) \times (-4x)$$

$$= 2x \times (-4x) + 3y \times (-4x) + 2 \times (-4x)$$

$$= -8x^2 - 12xy - 8x$$

$$\textcircled{3} \quad (3a-2b+7) \times (-2a)$$

$$= 3a \times (-2a) - 2b \times (-2a) + 7 \times (-2a)$$

$$= -6a^2 + 4ab - 14a$$

$$\textcircled{4} \quad (a-6b+2) \times (-5a)$$

$$= a \times (-5a) - 6b \times (-5a) + 2 \times (-5a)$$

$$= -5a^2 + 30ab - 10a$$

$$\textcircled{5} \quad (5x+y-4) \times (-4x)$$

$$= 5x \times (-4x) + y \times (-4x) - 4 \times (-4x)$$

$$= -20x^2 - 4xy + 16x$$

$$\textcircled{6} \quad (4a-2b-3) \times (-7a)$$

$$= 4a \times (-7a) - 2b \times (-7a) - 3 \times (-7a)$$

$$= -28a^2 + 14ab + 21a$$