

1 次の計算をなさい。

① $3x(2x - 2y + 5)$

② $2a(2a - 4b - 7)$

③ $a(7a + 2b - 5)$

④ $5x(xy + 2y - 5)$

⑤ $4a(ab - 9a - 5)$

⑥ $6x(2xy + 3x - 2y)$

2 次の計算をなさい。

① $(2x + 3y - 4) \times (-2x)$

② $(5x + 2y + 1) \times (-x)$

③ $(a - 4b + 8) \times (-3a)$

④ $(ab - 2b + 5) \times (-5a)$

⑤ $(6xy + 5x - 1) \times (-2x)$

⑥ $(ab - 3a - 4b) \times (-4a)$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 3x(2x - 2y + 5) \\ &= 3x \times 2x + 3x \times (-2y) + 3x \times 5 \\ &= 6x^2 - 6xy + 15x \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & a(7a + 2b - 5) \\ &= a \times 7a + a \times 2b + a \times (-5) \\ &= 7a^2 + 2ab - 5a \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & 4a(ab - 9a - 5) \\ &= 4a \times ab + 4a \times (-9a) + 4a \times (-5) \\ &= 4a^2b - 36a^2 - 20a \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 2a(2a - 4b - 7) \\ &= 2a \times 2a + 2a \times (-4b) + 2a \times (-7) \\ &= 4a^2 - 8ab - 14a \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 5x(xy + 2y - 5) \\ &= 5x \times xy + 5x \times 2y + 5x \times (-5) \\ &= 5x^2y + 10xy - 25x \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & 6x(2xy + 3x - 2y) \\ &= 6x \times 2xy + 6x \times 3x + 6x \times (-2y) \\ &= 12x^2y + 18x^2 - 12xy \end{aligned}$$

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & (2x + 3y - 4) \times (-2x) \\ &= 2x \times (-2x) + 3y \times (-2x) - 4 \times (-2x) \\ &= -4x^2 - 6xy + 8x \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & (a - 4b + 8) \times (-3a) \\ &= a \times (-3a) - 4b \times (-3a) + 8 \times (-3a) \\ &= -3a^2 + 12ab - 24a \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & (6xy + 5x - 1) \times (-2x) \\ &= 6xy \times (-2x) + 5x \times (-2x) - 1 \times (-2x) \\ &= -12x^2y - 10x^2 + 2x \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & (5x + 2y + 1) \times (-x) \\ &= 5x \times (-x) + 2y \times (-x) + 1 \times (-x) \\ &= -5x^2 - 2xy - x \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & (ab - 2b + 5) \times (-5a) \\ &= ab \times (-5a) - 2b \times (-5a) + 5 \times (-5a) \\ &= -5a^2b + 10ab - 25a \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & (ab - 3a - 4b) \times (-4a) \\ &= ab \times (-4a) - 3a \times (-4a) - 4b \times (-4a) \\ &= -4a^2b + 12a^2 + 16ab \end{aligned}$$