

<いろいろな計算>

●四則の混じった計算●

かっこの外し方に注意

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

問1 次の計算をなさい。

$$\begin{aligned}
 \textcircled{1} \quad & 2x(x-4) + 3x(x+5) \\
 &= 2x^2 - 8x + 3x^2 + 15x \\
 &= 5x^2 + 7x
 \end{aligned}$$

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

問2 次の計算をなさい。

$$\begin{aligned}
 \textcircled{1} \quad & 2a(a-3) + 3a(a+4) \\
 &= 2a^2 - 6a + 3a^2 + 12a \\
 &= 5a^2 + 6a
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{2} \quad & 4x(2-x) - 2x(3x-1) \\
 &= 8x - 4x^2 - 6x^2 + 2x \\
 &= -10x^2 + 10x
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{3} \quad & -3x(2x-6y) + 2x(x-7y) \\
 &= -6x^2 + 18xy + 2x^2 - 14xy \\
 &= -4x^2 + 4xy
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{4} \quad & -3x(2x-6y) - 2x(-3x-9y) \\
 &= -6x^2 + 18xy + 6x^2 + 18xy \\
 &= 36xy
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{5} \quad & \frac{2}{3}y(-9x+3y) - \frac{3}{7}y\left(-7x+\frac{14}{3}y\right) + \frac{2}{3}y\left(\frac{9}{2}x+1\right) \\
 &= -6xy + 2y^2 + 3xy - 2y^2 + 3xy + \frac{2}{3}y \\
 &= \frac{2}{3}y
 \end{aligned}$$