

1 次の式と同類項をまとめて計算しなさい。

① $5x + 8x$

② $-2y + 6y$

③ $12xy + 3xy$

④ $8ab - 6ab$

⑤ $4x^2 - 11x^2$

⑥ $-6y^2 + 13y^2$

⑦ $-7x - 2y + 9x - 8y$

⑧ $-2a - 4b + a - 5b$

⑨ $-5x^2 - 8x + 6x^2 - 2x$

⑩ $-3y^2 - 7y + 9y - 5y^2$

⑪ $\frac{1}{8}x - \frac{2}{3}y - \frac{4}{9}x + \frac{1}{2}y$

⑫ $-\frac{1}{4}x^2 - \frac{3}{7}x - \frac{1}{3}x + \frac{1}{2}x^2$

1 次の式と同類項をまとめて計算しなさい。

$$\begin{aligned} \textcircled{1} \quad & 5x + 8x \\ &= (5 + 8)x \\ &= 13x \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & -2y + 6y \\ &= (-2 + 6)y \\ &= 4y \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & 12xy + 3xy \\ &= (12 + 3)xy \\ &= 15xy \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 8ab - 6ab \\ &= (8 - 6)ab \\ &= 2ab \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & 4x^2 - 11x^2 \\ &= (4 - 11)x^2 \\ &= -7x^2 \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & -6y^2 + 13y^2 \\ &= (-6 + 13)y^2 \\ &= 7y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & -7x - 2y + 9x - 8y \\ &= (-7 + 9)x + (-2 - 8)y \\ &= 2x - 10y \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & -2a - 4b + a - 5b \\ &= (-2 + 1)a + (-4 - 5)b \\ &= -a - 9b \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad & -5x^2 - 8x + 6x^2 - 2x \\ &= (-5 + 6)x^2 + (-8 - 2)x \\ &= x^2 - 10x \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & -3y^2 - 7y + 9y - 5y^2 \\ &= (-3 - 5)y^2 + (-7 + 9)y \\ &= -8y^2 + 2y \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & \frac{1}{8}x - \frac{2}{3}y - \frac{4}{9}x + \frac{1}{2}y \\ &= \left(\frac{1}{8} - \frac{4}{9}\right)x + \left(-\frac{2}{3} + \frac{1}{2}\right)y \\ &= \left(\frac{9}{72} - \frac{32}{72}\right)x + \left(-\frac{4}{6} + \frac{3}{6}\right)y \\ &= -\frac{23}{72}x - \frac{1}{6}y \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & -\frac{1}{4}x^2 - \frac{3}{7}x - \frac{1}{3}x + \frac{1}{2}x^2 \\ &= \left(-\frac{1}{4} + \frac{1}{2}\right)x^2 + \left(-\frac{3}{7} - \frac{1}{3}\right)x \\ &= \left(-\frac{1}{4} + \frac{2}{4}\right)x^2 + \left(-\frac{9}{21} - \frac{7}{21}\right)x \\ &= \frac{1}{4}x^2 - \frac{16}{21}x \end{aligned}$$