

1 次の式と同類項をまとめて計算しなさい。

① $2x + 9x$

② $-8y + 5y$

③ $6xy + 4xy$

④ $7ab - 11ab$

⑤ $6x^2 - 5x^2$

⑥ $-13y^2 + 8y^2$

⑦ $-5x - 3y + 7x - 9y$

⑧ $-2a - b + 5a - 8b$

⑨ $-6x^2 - 3x + 2x^2 - 7x$

⑩ $-4y^2 - 8y + 6y - 9y^2$

⑪ $\frac{1}{3}x - \frac{1}{2}y - \frac{2}{5}x + \frac{3}{7}y$

⑫ $-\frac{1}{5}x^2 - \frac{3}{4}x - \frac{1}{2}x + \frac{5}{6}x^2$

1 次の式と同類項をまとめて計算しなさい。

$$\begin{aligned} \textcircled{1} \quad & 2x + 9x \\ &= (2 + 9)x \\ &= 11x \end{aligned}$$

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

$$\begin{aligned} \textcircled{3} \quad & 6xy + 4xy \\ &= (6 + 4)xy \\ &= 10xy \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 7ab - 11ab \\ &= (7 - 11)ab \\ &= -4ab \end{aligned}$$

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

$$\begin{aligned} \textcircled{6} \quad & -13y^2 + 8y^2 \\ &= (-13 + 8)y^2 \\ &= -5y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & -5x - 3y + 7x - 9y \\ &= (-5 + 7)x + (-3 - 9)y \\ &= 2x - 12y \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & -2a - b + 5a - 8b \\ &= (-2 + 5)a + (-1 - 8)b \\ &= 3a - 9b \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad & -6x^2 - 3x + 2x^2 - 7x \\ &= (-6 + 2)x^2 + (-3 - 7)x \\ &= -4x^2 - 10x \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & -4y^2 - 8y + 6y - 9y^2 \\ &= (-4 - 9)y^2 + (-8 + 6)y \\ &= -13y^2 - 2y \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & \frac{1}{3}x - \frac{1}{2}y - \frac{2}{5}x + \frac{3}{7}y \\ &= \left(\frac{1}{3} - \frac{2}{5}\right)x + \left(-\frac{1}{2} + \frac{3}{7}\right)y \\ &= \left(\frac{5}{15} - \frac{6}{15}\right)x + \left(-\frac{7}{14} + \frac{6}{14}\right)y \\ &= -\frac{1}{15}x - \frac{1}{14}y \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & -\frac{1}{5}x^2 - \frac{3}{4}x - \frac{1}{2}x + \frac{5}{6}x^2 \\ &= \left(-\frac{1}{5} + \frac{5}{6}\right)x^2 + \left(-\frac{3}{4} - \frac{1}{2}\right)x \\ &= \left(-\frac{6}{30} + \frac{25}{30}\right)x^2 + \left(-\frac{3}{4} - \frac{2}{4}\right)x \\ &= \frac{19}{30}x^2 - \frac{5}{4}x \end{aligned}$$