

1 次の式と同類項をまとめて計算しなさい。

① $-2x - 5x$

② $9y - 7y$

③ $-4xy + 8xy$

④ $12ab + 3ab$

⑤ $-7x^2 - 11x^2$

⑥ $-6y^2 + 21y^2$

⑦ $-5x - 3y + 7x - 2y$

⑧ $-7a - 3b + 6a - 8b$

⑨ $-3x^2 - 4x + 2x^2 - 6x$

⑩ $-9y^2 - 12y + 6y - 3y^2$

⑪ $\frac{1}{2}x - \frac{3}{5}y - \frac{2}{7}x + \frac{3}{4}y$

⑫ $-\frac{2}{5}x^2 - \frac{2}{3}x - \frac{3}{7}x + \frac{1}{2}x^2$

1 次の式と同類項をまとめて計算しなさい。

$$\begin{aligned} \textcircled{1} \quad & -2x - 5x \\ & = (-2 - 5)x \\ & = -7x \end{aligned}$$

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

$$\begin{aligned} \textcircled{3} \quad & -4xy + 8xy \\ & = (-4 + 8)xy \\ & = 4xy \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 12ab + 3ab \\ & = (12 + 3)ab \\ & = 15ab \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & -7x^2 - 11x^2 \\ & = (-7 - 11)x^2 \\ & = -18x^2 \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & -6y^2 + 21y^2 \\ & = (-6 + 21)y^2 \\ & = 15y^2 \end{aligned}$$

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

$$\begin{aligned} \textcircled{8} \quad & -7a - 3b + 6a - 8b \\ & = (-7 + 6)a + (-3 - 8)b \\ & = -a - 11b \end{aligned}$$

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

$$\begin{aligned} \textcircled{10} \quad & -9y^2 - 12y + 6y - 3y^2 \\ & = (-9 - 3)y^2 + (-12 + 6)y \\ & = -12y^2 - 6y \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & \frac{1}{2}x - \frac{3}{5}y - \frac{2}{7}x + \frac{3}{4}y \\ & = \left(\frac{1}{2} - \frac{2}{7}\right)x + \left(-\frac{3}{5} + \frac{3}{4}\right)y \\ & = \left(\frac{7}{14} - \frac{4}{14}\right)x + \left(-\frac{12}{20} + \frac{15}{20}\right)y \\ & = \frac{3}{14}x + \frac{3}{20}y \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & -\frac{2}{5}x^2 - \frac{2}{3}x - \frac{3}{7}x + \frac{1}{2}x^2 \\ & = \left(-\frac{2}{5} + \frac{1}{2}\right)x^2 + \left(-\frac{2}{3} - \frac{3}{7}\right)x \\ & = \left(-\frac{4}{10} + \frac{5}{10}\right)x^2 + \left(-\frac{14}{21} - \frac{9}{21}\right)x \\ & = \frac{1}{10}x^2 - \frac{23}{21}x \end{aligned}$$