

例題 次の計算をなさい。

同類項 …文字の部分が同じ項、またはただの数の項。

①

$$\begin{array}{c} \text{同類項} \\ \boxed{-2x} + \boxed{+5} + \boxed{-3x} + \boxed{-6} \\ \text{同類項} \\ = (-2-3)x + 5 - 6 \\ = -5x - 1 \end{array}$$

係数の
たし算
ひき算

$$\begin{array}{c} \text{同類項} \quad \text{同類項} \\ \boxed{-2x} + \boxed{+5} + \boxed{-3x} + \boxed{-6} \\ \downarrow \quad \downarrow \\ = -5x - 1 \end{array}$$



一発で答えをだしてくれや!

②

$$\begin{array}{c} \text{同類項} \\ \boxed{-a} + \boxed{-7} + \boxed{+0.4a} + \boxed{-3} \\ \text{同類項} \\ = (-1+0.4)a - 7 - 3 \\ = -0.6a - 10 \end{array}$$

小数点をそろえて計算

$$\begin{array}{r} -1.0 \\ +0.4 \\ \hline -0.6 \end{array}$$

$$\begin{array}{c} \text{同類項} \quad \text{同類項} \\ \boxed{-a} + \boxed{-7} + \boxed{+0.4a} + \boxed{-3} \\ \downarrow \quad \downarrow \\ = -0.6a - 10 \end{array}$$

分数のたし算・ひき算の復習

$$\begin{array}{l} \frac{5 \times 2}{6 \times 2} - \frac{3 \times 3}{4 \times 3} \\ = \frac{10}{12} - \frac{9}{12} \\ = \frac{1}{12} \end{array}$$

通分

$$\begin{array}{l} 1 - \frac{8}{5} \\ = \frac{5}{5} - \frac{8}{5} \\ = -\frac{3}{5} \end{array}$$

$$\begin{array}{l} 2 - \frac{3}{4} \\ = \frac{8}{4} - \frac{3}{4} \\ = \frac{5}{4} \end{array}$$

整数の分数のなおし方

$$1 = \frac{2}{2} = \frac{3}{3} = \frac{4}{4} = \frac{5}{5}$$

$$2 = \frac{2}{1} = \frac{4}{2} = \frac{6}{3} = \frac{8}{4}$$

③

$$\begin{array}{c} \text{同類項} \\ \boxed{\frac{x}{3}} + \boxed{-2} + \boxed{+x} + \boxed{\frac{4}{3}} \\ \text{同類項} \\ = (\frac{1}{3} + 1)x - 2 + \frac{4}{3} \\ = (\frac{1}{3} + \frac{3}{3})x - \frac{6}{3} + \frac{4}{3} \\ = \frac{4}{3}x - \frac{2}{3} \end{array}$$

$$\begin{array}{c} \text{同類項} \quad \text{同類項} \\ \boxed{\frac{x}{3}} + \boxed{-2} + \boxed{+x} + \boxed{\frac{4}{3}} \\ \downarrow \quad \downarrow \quad \downarrow \\ = (\frac{1}{3} + \frac{3}{3})x - \frac{6}{3} + \frac{4}{3} \\ = \frac{4}{3}x - \frac{2}{3} \end{array}$$