

1次式の加法・減法

1次式の加法では、同じ文字の項、数の項をまとめて計算する。

減法では、ひく式の符号を変えて計算する。

$$1 \quad \left(\frac{2}{9}x + \frac{1}{4}\right) + \left(\frac{2}{3}x + \frac{2}{5}\right)$$

$$= \frac{2}{9}x + \frac{1}{4} + \frac{2}{3}x + \frac{2}{5}$$

$$= \frac{2}{9}x + \frac{2}{3}x + \frac{1}{4} + \frac{2}{5}$$

$$= \frac{2}{9}x + \frac{6}{9}x + \frac{5}{20} + \frac{8}{20}$$

$$= \frac{8}{9}x + \frac{13}{20}$$

$$2 \quad \left(-\frac{1}{3}x + \frac{1}{4}\right) - \left(\frac{5}{6}x - \frac{3}{7}\right)$$

$$= -\frac{1}{3}x + \frac{1}{4} - \frac{5}{6}x + \frac{3}{7}$$

$$= -\frac{1}{3}x - \frac{5}{6}x + \frac{1}{4} + \frac{3}{7}$$

$$= -\frac{2}{6}x - \frac{5}{6}x + \frac{7}{28} + \frac{12}{28}$$

$$= -\frac{7}{6}x + \frac{19}{28}$$

1 次の計算をなさい。

$$\textcircled{1} \quad \left(\frac{1}{4}x + \frac{3}{8}\right) + \left(\frac{1}{5}x + \frac{1}{4}\right)$$

$$\textcircled{2} \quad \left(-\frac{1}{3}x + \frac{3}{7}\right) - \left(\frac{2}{5}x - \frac{2}{3}\right)$$

$$\textcircled{3} \quad \left(\frac{1}{5}x - \frac{2}{3}\right) - \left(-\frac{3}{7}x - \frac{2}{7}\right)$$

$$\textcircled{4} \quad \left(-\frac{2}{3}x - \frac{5}{8}\right) + \left(\frac{7}{8}x - \frac{2}{5}\right)$$

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1 次式の加法では、同じ文字の項、数の項をまとめて計算する。

減法では、ひく式の符号を変えて計算する。

$$\begin{aligned}
 1 \quad & \left(\frac{2}{9}x + \frac{1}{4}\right) + \left(\frac{2}{3}x + \frac{2}{5}\right) \\
 &= \frac{2}{9}x + \frac{1}{4} + \frac{2}{3}x + \frac{2}{5} \\
 &= \frac{2}{9}x + \frac{2}{3}x + \frac{1}{4} + \frac{2}{5} \\
 &= \frac{2}{9}x + \frac{6}{9}x + \frac{5}{20} + \frac{8}{20} \\
 &= \frac{8}{9}x + \frac{13}{20}
 \end{aligned}$$

$$\begin{aligned}
 2 \quad & \left(-\frac{1}{3}x + \frac{1}{4}\right) - \left(\frac{5}{6}x - \frac{3}{7}\right) \\
 &= -\frac{1}{3}x + \frac{1}{4} - \frac{5}{6}x + \frac{3}{7} \\
 &= -\frac{1}{3}x - \frac{5}{6}x + \frac{1}{4} + \frac{3}{7} \\
 &= -\frac{2}{6}x - \frac{5}{6}x + \frac{7}{28} + \frac{12}{28} \\
 &= -\frac{7}{6}x + \frac{19}{28}
 \end{aligned}$$

1 次の計算をなさい。

$$\begin{aligned}
 ① \quad & \left(\frac{1}{4}x + \frac{3}{8}\right) + \left(\frac{1}{5}x + \frac{1}{4}\right) \\
 &= \frac{1}{4}x + \frac{3}{8} + \frac{1}{5}x + \frac{1}{4} \\
 &= \frac{1}{4}x + \frac{1}{5}x + \frac{3}{8} + \frac{1}{4} \\
 &= \frac{5}{20}x + \frac{4}{20}x + \frac{3}{8} + \frac{2}{8} \\
 &= \frac{9}{20}x + \frac{5}{8}
 \end{aligned}$$

$$\begin{aligned}
 ② \quad & \left(-\frac{1}{3}x + \frac{3}{7}\right) - \left(\frac{2}{5}x - \frac{2}{3}\right) \\
 &= -\frac{1}{3}x + \frac{3}{7} - \frac{2}{5}x + \frac{2}{3} \\
 &= -\frac{1}{3}x - \frac{2}{5}x + \frac{3}{7} + \frac{2}{3} \\
 &= -\frac{5}{15}x - \frac{6}{15}x + \frac{9}{21} + \frac{14}{21} \\
 &= -\frac{11}{15}x + \frac{23}{21}
 \end{aligned}$$

$$\begin{aligned}
 ③ \quad & \left(\frac{1}{5}x - \frac{2}{3}\right) - \left(-\frac{3}{7}x - \frac{2}{7}\right) \\
 &= \frac{1}{5}x - \frac{2}{3} + \frac{3}{7}x + \frac{2}{7} \\
 &= \frac{1}{5}x + \frac{3}{7}x - \frac{2}{3} + \frac{2}{7} \\
 &= \frac{7}{35}x + \frac{15}{35}x - \frac{14}{21} + \frac{6}{21} \\
 &= \frac{22}{35}x - \frac{8}{21}
 \end{aligned}$$

$$\begin{aligned}
 ④ \quad & \left(-\frac{2}{3}x - \frac{5}{8}\right) + \left(\frac{7}{8}x - \frac{2}{5}\right) \\
 &= -\frac{2}{3}x - \frac{5}{8} + \frac{7}{8}x - \frac{2}{5} \\
 &= -\frac{2}{3}x + \frac{7}{8}x - \frac{5}{8} - \frac{2}{5} \\
 &= -\frac{16}{24}x + \frac{21}{24}x - \frac{25}{40} - \frac{16}{40} \\
 &= \frac{5}{24}x - \frac{41}{40}
 \end{aligned}$$