

分数の一次式の減法

次の計算をしましょう。

$$\textcircled{1} \left(\frac{3}{5}x + \frac{1}{3} \right) - \left(\frac{1}{7}x + \frac{2}{9} \right)$$

$$\textcircled{4} \left(\frac{1}{8}x - \frac{3}{7} \right) - \left(-\frac{3}{4}x + \frac{1}{6} \right)$$

$$\textcircled{2} \left(\frac{5}{6}x + \frac{2}{9} \right) - \left(\frac{4}{7}x - \frac{1}{6} \right)$$

$$\textcircled{5} \left(\frac{1}{3}x - \frac{1}{3} \right) - \left(-\frac{2}{5}x - \frac{3}{4} \right)$$

$$\textcircled{3} \left(\frac{7}{8}x + \frac{2}{3} \right) - \left(\frac{2}{5}x + \frac{2}{9} \right)$$

$$\textcircled{6} \left(\frac{1}{3}x + \frac{5}{6} \right) - \left(-\frac{2}{5}x + \frac{2}{9} \right)$$

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次の計算をしましょう。

$$\begin{aligned}\textcircled{1} \quad & \left(\frac{3}{5}x + \frac{1}{3}\right) - \left(\frac{1}{7}x + \frac{2}{9}\right) \\ &= \frac{3}{5}x - \frac{1}{7}x + \frac{1}{3} - \frac{2}{9} \\ &= \frac{21}{35}x - \frac{5}{35}x + \frac{3}{9} - \frac{2}{9} \\ &= \frac{16}{35}x + \frac{1}{9}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \left(\frac{1}{8}x - \frac{3}{7}\right) - \left(-\frac{3}{4}x + \frac{1}{6}\right) \\ &= \frac{1}{8}x + \frac{3}{4}x - \frac{3}{7} - \frac{1}{6} \\ &= \frac{1}{8}x + \frac{6}{8}x - \frac{18}{42} - \frac{7}{42} \\ &= \frac{7}{8}x - \frac{25}{42}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \left(\frac{5}{6}x + \frac{2}{9}\right) - \left(\frac{4}{7}x - \frac{1}{6}\right) \\ &= \frac{5}{6}x - \frac{4}{7}x + \frac{2}{9} + \frac{1}{6} \\ &= \frac{35}{42}x - \frac{24}{42}x + \frac{4}{18} + \frac{3}{18} \\ &= \frac{11}{42}x + \frac{7}{18}\end{aligned}$$

$$\begin{aligned}\textcircled{5} \quad & \left(\frac{1}{3}x - \frac{1}{3}\right) - \left(-\frac{2}{5}x - \frac{3}{4}\right) \\ &= \frac{1}{3}x + \frac{2}{5}x - \frac{1}{3} + \frac{3}{4} \\ &= \frac{5}{15}x + \frac{6}{15}x - \frac{4}{12} + \frac{9}{12} \\ &= \frac{11}{15}x + \frac{5}{12}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \left(\frac{7}{8}x + \frac{2}{3}\right) - \left(\frac{2}{5}x + \frac{2}{9}\right) \\ &= \frac{7}{8}x - \frac{2}{5}x + \frac{2}{3} - \frac{2}{9} \\ &= \frac{35}{40}x - \frac{16}{40}x + \frac{6}{9} - \frac{2}{9} \\ &= \frac{19}{40}x + \frac{4}{9}\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad & \left(\frac{1}{3}x + \frac{5}{6}\right) - \left(-\frac{2}{5}x + \frac{2}{9}\right) \\ &= \frac{1}{3}x + \frac{2}{5}x + \frac{5}{6} - \frac{2}{9} \\ &= \frac{5}{15}x + \frac{6}{15}x + \frac{15}{18} - \frac{4}{18} \\ &= \frac{11}{15}x + \frac{11}{18}\end{aligned}$$