

分数の正の数、負の数の減法

次の計算をしましょう。

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

$$\textcircled{2} \left(+\frac{2}{5} \right) - \left(+\frac{2}{3} \right)$$

$$\textcircled{3} \left(+\frac{5}{6} \right) - \left(+\frac{3}{7} \right)$$

$$\textcircled{4} \left(-\frac{3}{5} \right) - \left(+\frac{3}{4} \right)$$

$$\textcircled{5} \left(-\frac{3}{4} \right) - \left(-\frac{6}{11} \right)$$

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

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$$\begin{aligned}\textcircled{1} & \left(-\frac{3}{7}\right) - \left(+\frac{5}{9}\right) \\ & = \left(-\frac{27}{63}\right) + \left(-\frac{35}{63}\right) \\ & = -\left(\frac{27}{63} + \frac{35}{63}\right) \\ & = -\frac{62}{63}\end{aligned}$$

$$\begin{aligned}\textcircled{2} & \left(+\frac{2}{5}\right) - \left(+\frac{2}{3}\right) \\ & = \left(+\frac{6}{15}\right) + \left(-\frac{10}{15}\right) \\ & = -\left(\frac{10}{15} - \frac{6}{15}\right) \\ & = -\frac{4}{15}\end{aligned}$$

$$\begin{aligned}\textcircled{3} & \left(+\frac{5}{6}\right) - \left(+\frac{3}{7}\right) \\ & = \left(+\frac{35}{42}\right) + \left(-\frac{18}{42}\right) \\ & = +\left(\frac{35}{42} - \frac{18}{42}\right) \\ & = +\frac{17}{42}\end{aligned}$$

$$\begin{aligned}\textcircled{4} & \left(-\frac{3}{5}\right) - \left(+\frac{3}{4}\right) \\ & = \left(-\frac{12}{20}\right) + \left(-\frac{15}{20}\right) \\ & = -\left(\frac{12}{20} + \frac{15}{20}\right) \\ & = -\frac{27}{20} = -1\frac{7}{20}\end{aligned}$$

$$\begin{aligned}\textcircled{5} & \left(-\frac{3}{4}\right) - \left(-\frac{6}{11}\right) \\ & = \left(-\frac{33}{44}\right) + \left(+\frac{24}{44}\right) \\ & = -\left(\frac{33}{44} - \frac{24}{44}\right) \\ & = -\frac{9}{44}\end{aligned}$$

$$\begin{aligned}\textcircled{6} & \left(+\frac{2}{3}\right) - \left(-\frac{3}{5}\right) \\ & = \left(+\frac{10}{15}\right) + \left(+\frac{9}{15}\right) \\ & = +\left(\frac{10}{15} + \frac{9}{15}\right) \\ & = +\frac{19}{15} = +1\frac{4}{15}\end{aligned}$$