

分数の正の数、負の数の減法

次の計算をしましょう。

$$\textcircled{1} \left(-\frac{7}{8} \right) - \left(-\frac{3}{7} \right)$$

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

$$\textcircled{3} \left(+\frac{8}{9} \right) - \left(-\frac{3}{4} \right)$$

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

$$\textcircled{5} \left(-\frac{5}{11} \right) - \left(-\frac{2}{3} \right)$$

$$\textcircled{6} \left(-\frac{5}{6} \right) - \left(-\frac{3}{10} \right)$$

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次の計算をしましょう。

$$\begin{aligned} \textcircled{1} & \left(-\frac{7}{8} \right) - \left(-\frac{3}{7} \right) \\ & = \left(-\frac{49}{56} \right) + \left(+\frac{24}{56} \right) \\ & = -\left(\frac{49}{56} - \frac{24}{56} \right) \\ & = -\frac{25}{56} \end{aligned}$$

$$\begin{aligned} \textcircled{2} & \left(-\frac{4}{5} \right) - \left(+\frac{5}{8} \right) \\ & = \left(-\frac{32}{40} \right) + \left(-\frac{25}{40} \right) \\ & = -\left(\frac{32}{40} + \frac{25}{40} \right) \\ & = -\frac{57}{40} = -1\frac{17}{40} \end{aligned}$$

$$\begin{aligned} \textcircled{3} & \left(+\frac{8}{9} \right) - \left(-\frac{3}{4} \right) \\ & = \left(+\frac{32}{36} \right) + \left(+\frac{27}{36} \right) \\ & = +\left(\frac{32}{36} + \frac{27}{36} \right) \\ & = +\frac{59}{36} = +1\frac{23}{36} \end{aligned}$$

$$\begin{aligned} \textcircled{4} & \left(+\frac{4}{7} \right) - \left(+\frac{5}{6} \right) \\ & = \left(+\frac{24}{42} \right) + \left(-\frac{35}{42} \right) \\ & = -\left(\frac{35}{42} - \frac{24}{42} \right) \\ & = -\frac{11}{42} \end{aligned}$$

$$\begin{aligned} \textcircled{5} & \left(-\frac{5}{11} \right) - \left(-\frac{2}{3} \right) \\ & = \left(-\frac{15}{33} \right) + \left(+\frac{22}{33} \right) \\ & = +\left(\frac{22}{33} - \frac{15}{33} \right) \\ & = +\frac{7}{33} \end{aligned}$$

$$\begin{aligned} \textcircled{6} & \left(-\frac{5}{6} \right) - \left(-\frac{3}{10} \right) \\ & = \left(-\frac{25}{30} \right) + \left(+\frac{9}{30} \right) \\ & = -\left(\frac{25}{30} - \frac{9}{30} \right) \\ & = -\frac{16}{30} \\ & = -\frac{8}{15} \end{aligned}$$