

分数の正の数、負の数の減法

次の計算をしましょう。

$$\textcircled{1} \left(-\frac{2}{3} \right) - \left(+\frac{5}{11} \right)$$

$$\textcircled{2} \left(+\frac{5}{6} \right) - \left(-\frac{9}{10} \right)$$

$$\textcircled{3} \left(+\frac{8}{9} \right) - \left(+\frac{6}{7} \right)$$

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

$$\textcircled{5} \left(-\frac{3}{4} \right) - \left(+\frac{4}{9} \right)$$

$$\textcircled{6} \left(+\frac{2}{7} \right) - \left(+\frac{2}{3} \right)$$

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$$\begin{aligned}\textcircled{1} \quad & \left(-\frac{2}{3}\right) - \left(+\frac{5}{11}\right) \\ &= \left(-\frac{22}{33}\right) + \left(-\frac{15}{33}\right) \\ &= -\left(\frac{22}{33} + \frac{15}{33}\right) \\ &= -\frac{37}{33} = -1\frac{4}{33}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \left(+\frac{5}{6}\right) - \left(-\frac{9}{10}\right) \\ &= \left(+\frac{25}{30}\right) + \left(+\frac{27}{30}\right) \\ &= +\left(\frac{25}{30} + \frac{27}{30}\right) \\ &= +\frac{52}{30} \\ &= +\frac{26}{15} = +1\frac{11}{15}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \left(+\frac{8}{9}\right) - \left(+\frac{6}{7}\right) \\ &= \left(+\frac{56}{63}\right) + \left(-\frac{54}{63}\right) \\ &= +\left(\frac{56}{63} - \frac{54}{63}\right) \\ &= +\frac{2}{63}\end{aligned}$$

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

$$\begin{aligned}\textcircled{5} \quad & \left(-\frac{3}{4}\right) - \left(+\frac{4}{9}\right) \\ &= \left(-\frac{27}{36}\right) + \left(-\frac{16}{36}\right) \\ &= -\left(\frac{27}{36} + \frac{16}{36}\right) \\ &= -\frac{43}{36} = -1\frac{7}{36}\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad & \left(+\frac{2}{7}\right) - \left(+\frac{2}{3}\right) \\ &= \left(+\frac{6}{21}\right) + \left(-\frac{14}{21}\right) \\ &= -\left(\frac{14}{21} - \frac{6}{21}\right) \\ &= -\frac{8}{21}\end{aligned}$$