

分数の正の数、負の数の減法

次の計算をしましょう。

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

$$\textcircled{2} \left(-\frac{3}{7} \right) - \left(-\frac{4}{11} \right)$$

$$\textcircled{3} \left(-\frac{4}{9} \right) - \left(-\frac{3}{7} \right)$$

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

$$\textcircled{5} \left(-\frac{3}{10} \right) - \left(-\frac{3}{8} \right)$$

$$\textcircled{6} \left(+\frac{3}{4} \right) - \left(-\frac{2}{5} \right)$$

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次の計算をしましょう。

$$\begin{aligned}\textcircled{1} \quad & \left(-\frac{2}{9}\right) - \left(+\frac{3}{5}\right) \\ &= \left(-\frac{10}{45}\right) + \left(-\frac{27}{45}\right) \\ &= -\left(\frac{10}{45} + \frac{27}{45}\right) \\ &= -\frac{37}{45}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \left(-\frac{3}{7}\right) - \left(-\frac{4}{11}\right) \\ &= \left(-\frac{33}{77}\right) + \left(+\frac{28}{77}\right) \\ &= -\left(\frac{33}{77} - \frac{28}{77}\right) \\ &= -\frac{5}{77}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \left(-\frac{4}{9}\right) - \left(-\frac{3}{7}\right) \\ &= \left(-\frac{28}{63}\right) + \left(+\frac{27}{63}\right) \\ &= -\left(\frac{28}{63} - \frac{27}{63}\right) \\ &= -\frac{1}{63}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \left(-\frac{2}{3}\right) - \left(+\frac{4}{7}\right) \\ &= \left(-\frac{14}{21}\right) + \left(-\frac{12}{21}\right) \\ &= -\left(\frac{14}{21} + \frac{12}{21}\right) \\ &= -\frac{26}{21} = -1\frac{5}{21}\end{aligned}$$

$$\begin{aligned}\textcircled{5} \quad & \left(-\frac{3}{10}\right) - \left(-\frac{3}{8}\right) \\ &= \left(-\frac{12}{40}\right) + \left(+\frac{15}{40}\right) \\ &= +\left(\frac{15}{40} - \frac{12}{40}\right) \\ &= +\frac{3}{40}\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad & \left(+\frac{3}{4}\right) - \left(-\frac{2}{5}\right) \\ &= \left(+\frac{15}{20}\right) + \left(+\frac{8}{20}\right) \\ &= +\left(\frac{15}{20} + \frac{8}{20}\right) \\ &= +\frac{23}{20} = +1\frac{3}{20}\end{aligned}$$