

分数の正の数、負の数の除法

次の計算をしましょう。

$$\textcircled{1} \left(+\frac{3}{4} \right) \div \left(-\frac{4}{9} \right)$$

$$\textcircled{2} \left(+\frac{2}{9} \right) \div \left(+\frac{2}{3} \right)$$

$$\textcircled{3} \left(+\frac{8}{9} \right) \div \left(+\frac{8}{11} \right)$$

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

$$\textcircled{5} \left(+\frac{4}{11} \right) \div \left(-\frac{2}{7} \right)$$

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

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次の計算をしましょう。

$$\begin{aligned} \textcircled{1} \quad & \left(+\frac{3}{4} \right) \div \left(-\frac{4}{9} \right) \\ & = -\left(\frac{3}{4} \times \frac{9}{4} \right) \\ & = -\frac{27}{16} = -1\frac{11}{16} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \left(+\frac{2}{9} \right) \div \left(+\frac{2}{3} \right) \\ & = +\left(\frac{2}{9} \times \frac{3}{2} \right) \\ & = +\frac{6}{18} \\ & = +\frac{1}{3} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \left(+\frac{8}{9} \right) \div \left(+\frac{8}{11} \right) \\ & = +\left(\frac{8}{9} \times \frac{11}{8} \right) \\ & = +\frac{88}{72} \\ & = +\frac{11}{9} = +1\frac{2}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \left(+\frac{5}{7} \right) \div \left(-\frac{2}{9} \right) \\ & = -\left(\frac{5}{7} \times \frac{9}{2} \right) \\ & = -\frac{45}{14} = -1\frac{31}{14} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & \left(+\frac{4}{11} \right) \div \left(-\frac{2}{7} \right) \\ & = -\left(\frac{4}{11} \times \frac{7}{2} \right) \\ & = -\frac{28}{22} \\ & = -\frac{14}{11} = -1\frac{3}{11} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & \left(-\frac{2}{3} \right) \div \left(-\frac{3}{7} \right) \\ & = +\left(\frac{2}{3} \times \frac{7}{3} \right) \\ & = +\frac{14}{9} = +1\frac{5}{9} \end{aligned}$$