

分数の正の数、負の数の乗法

次の計算をしましょう。

$$\textcircled{1} \left(-\frac{4}{9}\right) \times \left(+\frac{3}{7}\right)$$

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

$$\textcircled{3} \left(-\frac{8}{11}\right) \times \left(-\frac{3}{7}\right)$$

$$\textcircled{4} \left(-\frac{2}{9}\right) \times \left(-\frac{2}{3}\right)$$

$$\textcircled{5} \left(-\frac{2}{3}\right) \times \left(-\frac{3}{7}\right)$$

$$\textcircled{6} \left(+\frac{4}{9}\right) \times \left(-\frac{5}{6}\right)$$

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次の計算をしましょう。

$$\begin{aligned}\textcircled{1} \quad & \left(-\frac{4}{9}\right) \times \left(+\frac{3}{7}\right) \\ &= -\left(\frac{4}{9} \times \frac{3}{7}\right) \\ &= -\frac{12}{63} \\ &= -\frac{4}{21}\end{aligned}$$

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

$$\begin{aligned}\textcircled{3} \quad & \left(-\frac{8}{11}\right) \times \left(-\frac{3}{7}\right) \\ &= +\left(\frac{8}{11} \times \frac{3}{7}\right) \\ &= +\frac{24}{77}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \left(-\frac{2}{9}\right) \times \left(-\frac{2}{3}\right) \\ &= +\left(\frac{2}{9} \times \frac{2}{3}\right) \\ &= +\frac{4}{27}\end{aligned}$$

$$\begin{aligned}\textcircled{5} \quad & \left(-\frac{2}{3}\right) \times \left(-\frac{3}{7}\right) \\ &= +\left(\frac{2}{3} \times \frac{3}{7}\right) \\ &= +\frac{6}{21} \\ &= +\frac{2}{7}\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad & \left(+\frac{4}{9}\right) \times \left(-\frac{5}{6}\right) \\ &= -\left(\frac{4}{9} \times \frac{5}{6}\right) \\ &= -\frac{20}{54} \\ &= -\frac{10}{27}\end{aligned}$$