

解答⑨

P34

問11

$$\begin{aligned} (1) & 2 \times (-3) \times 9 \\ & = -(2 \times 3 \times 9) \\ & = -54 \end{aligned}$$

$$\begin{aligned} (2) & (-6) \times (-3) \times 8 \\ & = +(6 \times 3 \times 8) \\ & = 144 \end{aligned}$$

$$\begin{aligned} (3) & (-2) \times (-7) \times 5 \times (-4) \\ & = -(2 \times 7 \times 5 \times 4) \\ & = -(14 \times 20) \\ & = -280 \end{aligned}$$

$$\begin{aligned} (4) & \left(-\frac{5}{3}\right) \times (-6) \times \left(-\frac{2}{5}\right) \\ & = -\left(\frac{5}{3} \times 6 \times \frac{2}{5}\right) \\ & = -\frac{5^1 \times 6^2 \times 2}{3 \times 1 \times 5} \\ & = -4 \end{aligned}$$

P35

た⑤ 次の積を、累乗の指数を使って表せ。

$$\begin{aligned} (1) & 7 \times 7 \times 7 \times 7 \\ & = 7^4 \end{aligned}$$

$$\begin{aligned} (2) & (-4) \times (-4) \\ & = (-4)^2 \end{aligned}$$

⑤ 負の数や  
分数の  
累乗で

$$\begin{aligned} (3) & (-0.3) \times (-0.3) \\ & = (-0.3)^2 \end{aligned}$$

$$\begin{aligned} (4) & \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \\ & = \left(\frac{1}{2}\right)^3 \end{aligned}$$

割りの有無

累乗優先!

カッコ内は先計算!

た⑥

$$\begin{aligned} (1) & (-1)^2 \\ & = (-1) \times (-1) \\ & = 1 \end{aligned}$$

$$\begin{aligned} (2) & -5^2 \\ & = -(5 \times 5) \\ & = -25 \end{aligned}$$

$$\begin{aligned} (3) & (-3) \times \underbrace{2^2} \\ & = (-3) \times \underbrace{2 \times 2} \\ & = -(3 \times 2 \times 2) \\ & = -12 \end{aligned}$$

$$\begin{aligned} (4) & \underbrace{(2 \times 4)}^2 \\ & = 8^2 \\ & = 8 \times 8 \\ & = 64 \end{aligned}$$

問12

$$\begin{aligned} (1) & (-2)^3 \\ & = (-2) \times (-2) \times (-2) \\ & = -(2 \times 2 \times 2) \\ & = -8 \end{aligned}$$

$$\begin{aligned} (2) & 3 \times (-4^2) \\ & = 3 \times \{-\underbrace{(4 \times 4)}\} \\ & = 3 \times (-16) \\ & = -48 \end{aligned}$$

$$\begin{aligned} (3) & (-6) \times (-1)^3 \\ & = (-6) \times (-1) \times (-1) \times (-1) \\ & = 6 \end{aligned}$$

$$\begin{aligned} (4) & (-2)^2 \times 5^2 \\ & = (-2) \times (-2) \times 5 \times 5 \\ & = 4 \times 25 = 100 \end{aligned}$$