

# 式の計算（単項式の乗法・除法④）

組 番 名前

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad 18x^3 \div 2x \div 3x \\ &= 9x^2 \div 3x \\ &= 3x \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 27a^2b \div 3a \div 3b \\ &= 9ab \div 3b \\ &= 3a \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 20ab^2 \div 5b \div (-2a) \\ &= 4ab \div (-2a) \\ &= -2b \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 18xy^3 \div (-2y^2) \div 6x \\ &= -9xy \div 6x \\ &= -\frac{3}{2}y \end{aligned}$$

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad 2x \times (-x)^2 \div x \\ &= 2x \times x^2 \div x \\ &= 2x^3 \div x \\ &= 2x^2 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad (4a)^2 \times 2a \div (-12a) \\ &= 16a^2 \times 2a \div (-12a) \\ &= 32a^3 \div (-12a) \\ &= -\frac{8}{3}a^2 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad (-6x) \div 4x^2 \times (-x)^3 \\ &= -\frac{3}{2x} \times (-x^3) \\ &= \frac{3}{2}x^2 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 24a \div 8ab \times (-b^2) \\ &= \frac{3}{b} \times (-b^2) \\ &= -3b \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad -x \times (-2x^2) \div x^3 \\ &= 2x^3 \div x^3 \\ &= 2 \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad (-12xy^2) \div (-y) \div 3x^2 \\ &= 12xy \div 3x^2 \\ &= \frac{4y}{x} \end{aligned}$$

3 次の等式を、[ ] の中の文字について解きなさい。

$$\begin{aligned} \textcircled{1} \quad 2x + y = 12 \quad [y] \\ & \quad y = -2x + 12 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad -4x - 2y = 8 \quad [x] \\ & \quad -4x = 2y + 8 \\ & \quad x = -\frac{1}{2}y - 2 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad l = \frac{1}{2}(b-a) \quad [b] \\ & \quad l = \frac{b}{2} - \frac{a}{2} \\ & \quad -\frac{b}{2} = -\frac{a}{2} - l \\ & \quad b = a + 2l \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad V = \frac{1}{3}Sh \quad [h] \\ & \quad Sh = 3V \\ & \quad h = \frac{3V}{S} \end{aligned}$$