

70

式の乗法・除法

年 組 番 名前

●例題1●

次の計算をなさい

$$\begin{aligned} &4x \times 5y \\ &= (4 \times x) \times (5 \times y) \\ &= (4 \times 5) \times (x \times y) \\ &= 20xy \end{aligned} \quad \rightarrow 60 \text{の例題1へ}$$

問1 次の計算をなさい

$$\begin{aligned} (1) &2x \times 7y \\ &= 2 \times 7 \times x \times y \\ &= 14xy \end{aligned} \quad \text{答. } \underline{14xy}$$

$$\begin{aligned} (2) &(-6x) \times 4y \\ &= -6 \times 4 \times x \times y \\ &= -24xy \end{aligned} \quad \text{答. } \underline{-24xy}$$

$$\begin{aligned} (3) &(-3a) \times (-9b) \\ &= (-3) \times (-9) \times a \times b \\ &= 27ab \end{aligned} \quad \text{答. } \underline{27ab}$$

$$\begin{aligned} (4) &8a \times \frac{3}{2}x \\ &= 8 \times \frac{3}{2} \times a \times x = 12ax \end{aligned} \quad \text{答. } \underline{12ax}$$

●例題2●

次の計算をなさい

$$\begin{aligned} &x \times x^2 \\ &= x \times (x \times x) \\ &= x^3 \end{aligned} \quad \rightarrow 54 \text{の例題2へ}$$

問2 次の計算をなさい

$$\begin{aligned} (1) &a^2 \times a \\ &= a \times a \times a \\ &= a^3 \end{aligned} \quad \text{答. } \underline{a^3}$$

$$\begin{aligned} (2) &(-3x)^2 \\ &= (-3x) \times (-3x) \\ &= 9x^2 \end{aligned} \quad \text{答. } \underline{9x^2}$$

$$\begin{aligned} (3) &(-5xy) \times 2x \\ &= -5 \times 2 \times x \times x \times y \\ &= -10x^2y \end{aligned} \quad \text{答. } \underline{-10x^2y}$$

●例題3●

次の計算をなさい

$$\begin{aligned} &12xy \div 3x \\ &= \frac{12xy}{3x} \\ &= 4y \end{aligned} \quad \rightarrow 60 \text{の例題2へ}$$

問3 次の計算をなさい

$$\begin{aligned} (1) &14ab \div 7b \\ &= \frac{14ab}{7b} \\ &= 2a \end{aligned} \quad \text{答. } \underline{2a}$$

$$\begin{aligned} (2) &9xy \div (-3x) \\ &= -\frac{9xy}{3x} \\ &= -3y \end{aligned} \quad \text{答. } \underline{-3y}$$

$$\begin{aligned} (3) &(-10x^2y) \div 2xy \\ &= -\frac{10x^2y}{2xy} \\ &= -5x \end{aligned} \quad \text{答. } \underline{-5x}$$

●例題4●

次の計算をなさい

$$\begin{aligned} &(-6x^2) \div \frac{1}{2}x \\ &= (-6x^2) \div \frac{x}{2} \\ &= (-6x^2) \times \frac{2}{x} \\ &= -12x \end{aligned} \quad \rightarrow 55 \text{の例題2へ}$$

問4 次の間に答えなさい

$$\begin{aligned} &(-8x^2) \div \frac{2}{3}x \\ &= (-8x^2) \times \frac{3}{2x} \\ &= -12x \end{aligned} \quad \text{答. } \underline{-12x}$$