

授業(18) <確認テスト> 解答

$$\begin{aligned}
 1. \quad & a^2b \div ab^2 \times 3 \quad \downarrow \textcircled{1} \\
 & = a^2b \div \frac{ab^2}{1} \times 3 \quad \downarrow \textcircled{2} \\
 & = a^2b \times \frac{1}{ab^2} \times 3 \quad \downarrow \textcircled{3} \\
 & = \frac{a^2b \times 3}{ab^2} \quad \downarrow \textcircled{4} \\
 & = \frac{a \times a \times b \times 3}{a \times b \times b} \quad \downarrow \textcircled{5} \\
 & = \frac{3a}{b} \quad (\text{答えは1})
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & 8x^3 \div (-4x) \div x \quad \downarrow \textcircled{1} \\
 & = 8x^3 \div \left(-\frac{4x}{1}\right) \div \frac{x}{1} \quad \downarrow \textcircled{2} \\
 & = 8x^3 \times \left(-\frac{1}{4x}\right) \times \frac{1}{x} \quad \downarrow \textcircled{3} \\
 & = -\frac{8x^3}{4x \times x} \quad \downarrow \textcircled{4} \\
 & = -\frac{8 \times x \times x \times x}{4 \times x \times x} \quad \downarrow \textcircled{5} \\
 & = -2x \quad (\text{答えは1})
 \end{aligned}$$

$$\begin{aligned}
 3. \quad & (-2x)^3 \times x \div (-2x) \quad \downarrow \textcircled{1} \\
 & = (-2x)^3 \times x \div \left(-\frac{2x}{1}\right) \quad \downarrow \textcircled{2} \\
 & = (-2x)^3 \times x \times \left(-\frac{1}{2x}\right) \\
 & = (-2x) \times (-2x) \times (-2x) \times x \times \left(-\frac{1}{2x}\right) \quad \downarrow \textcircled{3} \\
 & = \frac{2x \times 2x \times 2x \times x}{2x} \quad \downarrow \textcircled{4} \\
 & = \frac{2 \times x \times 2 \times x \times 2 \times x \times x}{2 \times x} \quad \downarrow \textcircled{5} \\
 & = 4x^3 \quad (\text{答えはウ})
 \end{aligned}$$