

$$\begin{aligned}
 1. \quad & (-2ab) \times 4c \\
 = & (-2) \times a \times b \times 4 \times c \quad \downarrow \textcircled{1} \\
 = & (-2) \times 4 \times a \times b \times c \quad \downarrow \textcircled{2} \\
 = & -8abc \quad \downarrow \textcircled{3} \\
 & \text{(答えは7)}
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & (-2x)^2 \\
 = & (-2x) \times (-2x) \quad \downarrow \textcircled{1} \\
 = & (-2) \times x \times (-2) \times x \quad \downarrow \textcircled{2} \\
 = & (-2) \times (-2) \times x \times x \quad \downarrow \textcircled{3} \\
 = & 4x^2 \\
 & \text{(答えは7)}
 \end{aligned}$$

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

$$\begin{aligned}
 4. \quad & 9xy \div (-3xy) \quad \downarrow \textcircled{1} \\
 = & 9xy \div \left(-\frac{3xy}{1}\right) \quad \downarrow \textcircled{2} \\
 = & 9xy \times \left(-\frac{1}{3xy}\right) \quad \downarrow \textcircled{3} \\
 = & -\frac{9xy}{3xy} \quad \downarrow \textcircled{4} \\
 = & -\frac{9 \times x \times y}{3 \times x \times y} \quad \downarrow \textcircled{5} \\
 = & -3 \quad \text{(答えは1)}
 \end{aligned}$$

$$\begin{aligned}
 5. \quad & 6x^3 \div \frac{4}{3}x \quad \downarrow \textcircled{1} \\
 = & 6x^3 \div \frac{4x}{3} \quad \downarrow \textcircled{2} \\
 = & 6x^3 \times \frac{3}{4x} \quad \downarrow \textcircled{3} \\
 = & \frac{6x^3 \times 3}{4x} \quad \downarrow \textcircled{4} \\
 = & \frac{6 \times x \times x \times x \times 3}{4 \times x} \quad \downarrow \textcircled{5} \\
 = & \frac{9x^2}{2} \quad \text{(答えは1)} \quad \left(\frac{9}{2}x^2 \text{ ではない}\right)
 \end{aligned}$$