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次の計算をしなさい。

$$\textcircled{1} \quad 12x \div 2x$$

$$\textcircled{2} \quad 49xy \div (-7x)$$

$$\textcircled{3} \quad (-9x^2) \div (-3x)$$

$$\textcircled{4} \quad 32a^3 \div (-8a^2)$$

$$\textcircled{5} \quad 54x^2 \div \frac{9}{10}x$$

$$\textcircled{6} \quad 36ab \div (-\frac{4}{5}a)$$

$$\textcircled{7} \quad \frac{8}{9}xy \div (-\frac{4}{27}y)$$

$$\textcircled{8} \quad (-\frac{4}{3}a^2) \div (-\frac{2}{9}a)$$

1

次の計算をしなさい。

$$\begin{aligned} \textcircled{1} \quad & 12x \div 2x \\ & = \frac{\cancel{12x}}{\cancel{2x}} \\ & = 6 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 49xy \div (-7x) \\ & = -\frac{\cancel{49xy}}{\cancel{7x}} \\ & = -7y \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & (-9x^2) \div (-3x) \\ & = \frac{\cancel{9} \times \cancel{x} \times x}{\cancel{3x}} \\ & = 3x \end{aligned}$$

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

$$\begin{aligned} \textcircled{5} \quad & 54x^2 \div \frac{9}{10}x \\ & = 54x^2 \times \frac{10}{9x} \\ & = \frac{\cancel{54} \times 10 \times \cancel{x} \times x}{\cancel{9x}} \\ & = 60x \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & 36ab \div (-\frac{4}{5}a) \\ & = 36ab \times (-\frac{5}{4a}) \\ & = -\frac{\cancel{36} \times 5 \times \cancel{a} \times b}{\cancel{4a}} \\ & = -45b \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & \frac{8}{9}xy \div (-\frac{4}{27}y) \\ & = \frac{8}{9}xy \times (-\frac{27}{4y}) \\ & = -\frac{\cancel{8} \times \cancel{27} \times x \times \cancel{y}}{\cancel{9} \times \cancel{4} \times \cancel{y}} \\ & = -6x \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & (-\frac{4}{3}a^2) \div (-\frac{2}{9}a) \\ & = (-\frac{4}{3}a^2) \times (-\frac{9}{2a}) \\ & = \frac{\cancel{4} \times \cancel{9} \times \cancel{a} \times a}{\cancel{3} \times \cancel{2} \times \cancel{a}} \\ & = 6a \end{aligned}$$