

1 次の計算をなさい。

① $(9xy + 6x) \div 3x$

② $(8xy - 12y) \div 4y$

③ $(15ab - 20a) \div 5a$

④ $(12ab - 24b) \div (-6b)$

2 次の計算をなさい。

① $(9ax - 12bx) \div \left(-\frac{3}{4}x\right)$

② $(10xy^2 + 15xy) \div \frac{5}{6}y$

③ $(4a^2b + 8ab) \div \frac{2}{3}a$

④ $(12ab - 18b) \div \left(-\frac{6}{7}b\right)$

⑤ $(14x^2y^2 - 7xy) \div \left(-\frac{7}{4}xy\right)$

⑥ $(9a^2b + 15ab) \div \frac{3}{8}ab$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad (9xy + 6x) \div 3x \\ &= \frac{9xy + 6x}{3x} \\ &= \frac{9xy}{3x} + \frac{6x}{3x} \\ &= 3y + 2 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad (15ab - 20a) \div 5a \\ &= \frac{15ab - 20a}{5a} \\ &= \frac{15ab}{5a} - \frac{20a}{5a} \\ &= 3b - 4 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad (8xy - 12y) \div 4y \\ &= \frac{8xy - 12y}{4y} \\ &= \frac{8xy}{4y} - \frac{12y}{4y} \\ &= 2x - 3 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad (12ab - 24b) \div (-6b) \\ &= \frac{12ab - 24b}{-6b} \\ &= \frac{12ab}{-6b} - \frac{24b}{-6b} \\ &= -2a + 4 \end{aligned}$$

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad (9ax - 12bx) \div \left(-\frac{3}{4}x\right) \\ &= (9ax - 12bx) \times \left(-\frac{4}{3x}\right) \\ &= 9ax \times \left(-\frac{4}{3x}\right) - 12bx \times \left(-\frac{4}{3x}\right) \\ &= -12a + 16b \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad (4a^2b + 8ab) \div \frac{2}{3}a \\ &= (4a^2b + 8ab) \times \frac{3}{2a} \\ &= 4a^2b \times \frac{3}{2a} + 8ab \times \frac{3}{2a} \\ &= 6ab + 12b \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad (14x^2y^2 - 7xy) \div \left(-\frac{7}{4}xy\right) \\ &= (14x^2y^2 - 7xy) \times \left(-\frac{4}{7xy}\right) \\ &= 14x^2y^2 \times \left(-\frac{4}{7xy}\right) - 7xy \times \left(-\frac{4}{7xy}\right) \\ &= -8xy + 4 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad (10xy^2 + 15xy) \div \frac{5}{6}y \\ &= (10xy^2 + 15xy) \times \frac{6}{5y} \\ &= 10xy^2 \times \frac{6}{5y} + 15xy \times \frac{6}{5y} \\ &= 12xy + 18x \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad (12ab - 18b) \div \left(-\frac{6}{7}b\right) \\ &= (12ab - 18b) \times \left(-\frac{7}{6b}\right) \\ &= 12ab \times \left(-\frac{7}{6b}\right) - 18b \times \left(-\frac{7}{6b}\right) \\ &= -14a + 21 \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad (9a^2b + 15ab) \div \frac{3}{8}ab \\ &= (9a^2b + 15ab) \times \frac{8}{3ab} \\ &= 9a^2b \times \frac{8}{3ab} + 15ab \times \frac{8}{3ab} \\ &= 24a + 40 \end{aligned}$$