

1 次の計算をなさい。

①  $(6xy + 9x) \div \frac{3}{4}x$

②  $(8ay + 4by) \div \frac{2}{3}y$

③  $(9ax + 12ay) \div \frac{3}{5}a$

④  $(9b^2 - 3b) \div (-\frac{3}{2}b)$

⑤  $(4ax - 8bx) \div (-\frac{2}{3}x)$

⑥  $(8xy^2 + 4xy) \div \frac{4}{5}y$

⑦  $(12a^2b + 9ab) \div \frac{3}{4}a$

⑧  $(10ab - 15b) \div (-\frac{5}{3}b)$

⑨  $(5x^2y^2 - 10xy) \div (-\frac{5}{6}xy)$

⑩  $(4a^2b + 8ab) \div \frac{2}{7}ab$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad (6xy + 9x) \div \frac{3}{4}x \\ &= (6xy + 9x) \times \frac{4}{3x} \\ &= 6xy \times \frac{4}{3x} + 9x \times \frac{4}{3x} \\ &= 8y + 12 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad (9ax + 12ay) \div \frac{3}{5}a \\ &= (9ax + 12ay) \times \frac{5}{3a} \\ &= 9ax \times \frac{5}{3a} + 12ay \times \frac{5}{3a} \\ &= 15x + 20y \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad (4ax - 8bx) \div \left(-\frac{2}{3}x\right) \\ &= (4ax - 8bx) \times \left(-\frac{3}{2x}\right) \\ &= 4ax \times \left(-\frac{3}{2x}\right) - 8bx \times \left(-\frac{3}{2x}\right) \\ &= -6a + 12b \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad (12a^2b + 9ab) \div \frac{3}{4}a \\ &= (12a^2b + 9ab) \times \frac{4}{3a} \\ &= 12a^2b \times \frac{4}{3a} + 9ab \times \frac{4}{3a} \\ &= 16ab + 12b \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad (5x^2y^2 - 10xy) \div \left(-\frac{5}{6}xy\right) \\ &= (5x^2y^2 - 10xy) \times \left(-\frac{6}{5xy}\right) \\ &= 5x^2y^2 \times \left(-\frac{6}{5xy}\right) - 10xy \times \left(-\frac{6}{5xy}\right) \\ &= -6xy + 12 \end{aligned}$$

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

$$\begin{aligned} \textcircled{4} \quad (9b^2 - 3b) \div \left(-\frac{3}{2}b\right) \\ &= (9b^2 - 3b) \times \left(-\frac{2}{3b}\right) \\ &= 9b^2 \times \left(-\frac{2}{3b}\right) - 3b \times \left(-\frac{2}{3b}\right) \\ &= -6b + 2 \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad (8xy^2 + 4xy) \div \frac{4}{5}y \\ &= (8xy^2 + 4xy) \times \frac{5}{4y} \\ &= 8xy^2 \times \frac{5}{4y} + 4xy \times \frac{5}{4y} \\ &= 10xy + 5x \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad (10ab - 15b) \div \left(-\frac{5}{3}b\right) \\ &= (10ab - 15b) \times \left(-\frac{3}{5b}\right) \\ &= 10ab \times \left(-\frac{3}{5b}\right) - 15b \times \left(-\frac{3}{5b}\right) \\ &= -6a + 9 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad (4a^2b + 8ab) \div \frac{2}{7}ab \\ &= (4a^2b + 8ab) \times \frac{7}{2ab} \\ &= 4a^2b \times \frac{7}{2ab} + 8ab \times \frac{7}{2ab} \\ &= 14a + 28 \end{aligned}$$