

1 次の計算をなさい。

① $(4xy + 8x) \div \frac{2}{3}x$

② $(9ay + 6by) \div \frac{3}{4}y$

③ $(4ax + 12ay) \div \frac{2}{5}a$

④ $(8b^2 - 4b) \div (-\frac{4}{7}b)$

⑤ $(10ax - 15bx) \div (-\frac{5}{6}x)$

⑥ $(9xy^2 + 12xy) \div \frac{3}{2}y$

⑦ $(8a^2b + 4ab) \div \frac{2}{9}a$

⑧ $(12ab - 18b) \div (-\frac{6}{7}b)$

⑨ $(14x^2y^2 - 7xy) \div (-\frac{7}{8}xy)$

⑩ $(8a^2b + 16ab) \div \frac{4}{5}ab$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad (4xy + 8x) \div \frac{2}{3}x \\ &= (4xy + 8x) \times \frac{3}{2x} \\ &= 4xy \times \frac{3}{2x} + 8x \times \frac{3}{2x} \\ &= 6y + 12 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad (4ax + 12ay) \div \frac{2}{5}a \\ &= (4ax + 12ay) \times \frac{5}{2a} \\ &= 4ax \times \frac{5}{2a} + 12ay \times \frac{5}{2a} \\ &= 10x + 30y \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad (10ax - 15bx) \div \left(-\frac{5}{6}x\right) \\ &= (10ax - 15bx) \times \left(-\frac{6}{5x}\right) \\ &= 10ax \times \left(-\frac{6}{5x}\right) - 15bx \times \left(-\frac{6}{5x}\right) \\ &= -12a + 18b \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad (8a^2b + 4ab) \div \frac{2}{9}a \\ &= (8a^2b + 4ab) \times \frac{9}{2a} \\ &= 8a^2b \times \frac{9}{2a} + 4ab \times \frac{9}{2a} \\ &= 36ab + 18b \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad (14x^2y^2 - 7xy) \div \left(-\frac{7}{8}xy\right) \\ &= (14x^2y^2 - 7xy) \times \left(-\frac{8}{7xy}\right) \\ &= 14x^2y^2 \times \left(-\frac{8}{7xy}\right) - 7xy \times \left(-\frac{8}{7xy}\right) \\ &= -16xy + 8 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad (9ay + 6by) \div \frac{3}{4}y \\ &= (9ay + 6by) \times \frac{4}{3y} \\ &= 9ay \times \frac{4}{3y} + 6by \times \frac{4}{3y} \\ &= 12a + 8b \end{aligned}$$

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

$$\begin{aligned} \textcircled{6} \quad (9xy^2 + 12xy) \div \frac{3}{2}y \\ &= (9xy^2 + 12xy) \times \frac{2}{3y} \\ &= 9xy^2 \times \frac{2}{3y} + 12xy \times \frac{2}{3y} \\ &= 6xy + 8x \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad (12ab - 18b) \div \left(-\frac{6}{7}b\right) \\ &= (12ab - 18b) \times \left(-\frac{7}{6b}\right) \\ &= 12ab \times \left(-\frac{7}{6b}\right) - 18b \times \left(-\frac{7}{6b}\right) \\ &= -14a + 21 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad (8a^2b + 16ab) \div \frac{4}{5}ab \\ &= (8a^2b + 16ab) \times \frac{5}{4ab} \\ &= 8a^2b \times \frac{5}{4ab} + 16ab \times \frac{5}{4ab} \\ &= 10a + 20 \end{aligned}$$