

分配法則（わり算）

例題 次の計算をせよ。

(1) $(12xy - 9x) \div 3x$

答

(2) $(4x^2 - 8xy) \div \left(-\frac{2}{3}x\right)$

答

練習 次の計算をせよ。

(1) $(15xy - 6x) \div 3x$

答

(4) $(27xy^2 - 9x^2y) \div 3xy$

答

(2) $(10a^2b + 4ab^2) \div 2ab$

答

(5) $(-18a^2b + 6ab) \div (-6b)$

答

(3) $(4xy^2 - 8x^2y) \div 4xy$

答

(6) $(6x^3 - 8x^2 + 2x) \div 2x$

答

分配法則（わり算）

例題 次の計算をせよ。

(1) $(12xy - 9x) \div 3x$

★

$$\begin{aligned} (12xy - 9x) \div 3x &= (12xy - 9x) \times \frac{1}{3x} \\ &= \frac{12xy}{3x} - \frac{9x}{3x} \\ &= 4y - 3 \end{aligned}$$

答 4y-3

(2) $(4x^2 - 8xy) \div \left(-\frac{2}{3}x\right)$

★

$$\begin{aligned} (4x^2 - 8xy) \div \left(-\frac{2}{3}x\right) &= (4x^2 - 8xy) \times \left(-\frac{3}{2x}\right) \\ &= -\frac{12x^2}{2x} + \frac{24xy}{2x} \\ &= -6x + 12y \end{aligned}$$

答 -6x+12y

練習 次の計算をせよ。

(1) $(15xy - 6x) \div 3x$

★

$$\begin{aligned} (15xy - 6x) \div 3x &= (15xy - 6x) \times \frac{1}{3x} \\ &= \frac{15xy}{3x} - \frac{6x}{3x} \\ &= 5y - 2 \end{aligned}$$

答 5y-2

(2) $(10a^2b + 4ab^2) \div 2ab$

★

$$\begin{aligned} (10a^2b + 4ab^2) \div 2ab &= (10a^2b + 4ab^2) \times \frac{1}{2ab} \\ &= \frac{10a^2b}{2ab} + \frac{4ab^2}{2ab} \\ &= 5a + 2b \end{aligned}$$

答 5a+2b

(3) $(4xy^2 - 8x^2y) \div 4xy$

★

$$\begin{aligned} (4xy^2 - 8x^2y) \div 4xy &= (4xy^2 - 8x^2y) \times \frac{1}{4xy} \\ &= \frac{4xy^2}{4xy} - \frac{8x^2y}{4xy} \\ &= y - 2x \end{aligned}$$

答 y-2x

(4) $(27xy^2 - 9x^2y) \div 3xy$

★

$$\begin{aligned} (27xy^2 - 9x^2y) \div 3xy &= (27xy^2 - 9x^2y) \times \frac{1}{3xy} \\ &= \frac{27xy^2}{3xy} - \frac{9x^2y}{3xy} \\ &= 9y - 3x \end{aligned}$$

答 9y-3x

(5) $(-18a^2b + 6ab) \div (-6b)$

★

$$\begin{aligned} (-18a^2b + 6ab) \div (-6b) &= (-18a^2b + 6ab) \times \left(-\frac{1}{6b}\right) \\ &= \frac{18a^2b}{6b} - \frac{6ab}{6b} \\ &= 3a^2 - a \end{aligned}$$

答 3a^2-a

(6) $(6x^3 - 8x^2 + 2x) \div 2x$

★

$$\begin{aligned} (6x^3 - 8x^2 + 2x) \div 2x &= (6x^3 - 8x^2 + 2x) \times \frac{1}{2x} \\ &= \frac{6x^3}{2x} - \frac{8x^2}{2x} + \frac{2x}{2x} \\ &= 3x^2 - 4x + 1 \end{aligned}$$

答 3x^2-4x+1