

101 単項式、多項式の計算6

1. 次の計算をしなさい。

(1) $(3a^2+2a)-(2a^2-5a)$

(2) $2(x+3y)-\frac{1}{3}(9x-12y)$

(3)
$$\begin{array}{r} 4x + 2 \\ +) \underline{5x - 1} \end{array}$$

(4)
$$\begin{array}{r} 2x^2 \quad +12 \\ -) \underline{3x^2 - 2x + 11} \end{array}$$

(5) $8x^3y^2 \times (-3xy^2) \div 4x^3y^2$

(6) $\frac{1}{4}x^2y^2 \div \frac{3}{8}x^2y \times 12x^2y^3$

(7) $6x^2y^2 \div (-x^3y^3) \times (-\frac{2}{3}xy^2) \div \frac{4}{5}xy$

(8) $2xy^2 \times xy \div \frac{2}{3}x^2y^3 \div \frac{7}{8}x^2y \times (-3y^3)$

(9) $a(3a+b) - b(a+5)$

(10) $\frac{x+y}{3} - \frac{x-y}{4}$

(11) $x^2 \times y \times y \div x \times y \div y^2$

(12) $\frac{3}{4}xy^3 \div \frac{5}{8}x^3y^2$

2. 次の計算をしなさい。

(1) $\frac{2a+b}{3} + \frac{3a-2b}{5}$

(2) $\frac{5x-7y}{4} - \frac{3x-2y}{8}$

(3) $5x-2y - \frac{3x-4y}{2}$

(4) $\frac{5x+3y}{2} - \frac{2x-y}{3} - 4y$

(5) $\frac{5}{3}xy \div 2x^3y \times (-6x)$

(6) $(-3xy) \times \frac{1}{6}x^2y^3 \div \left(-\frac{1}{4}xy^4\right)$

1.

(1) a^2+7a

(2) $-x+10y$

(3) $9x+1$

(4) $-x^2+2x+1$

(5) $-6xy^2$

(6) $8x^2y^4$

(7) $\frac{5}{x}$

(8) $-\frac{72y^2}{7x^2}$

(9) $3a^2-5b$

(10) $\frac{x+7y}{12}$

(11) xy

(12) $\frac{6y}{5x^2}$

2.

(1) $\frac{19a-b}{15}$

(2) $\frac{7x-12y}{8}$

(3) $\frac{7}{2}x$

(4) $\frac{11x-13y}{6}$

(5) $-\frac{5}{x}$

(6) $2x^2$