

1 $x = 1, y = -2$ のときの次の式の値を求めなさい。

$$\begin{array}{ll} (1) -4(x - 3y) + 6(x - 4y) & (2) -3xy \div 5x \times 10xy \\ = \underline{-4x + 12y + 6x} - 24y & = -\frac{3xy \times 10xy}{5x} \\ = \underline{2x} - 12y & = -6xy^2 \\ = 2 \times 1 - 12 \times (-2) & = -6 \times 1 \times (-2)^2 \\ = 26 & = -24 \end{array}$$

2 次の式の値を求めなさい。

$$(1) x = -5, y = 4 \text{ のとき, } 42x^3y^2 \div (-7xy) \div 3y \text{ の値}$$
$$\begin{array}{ll} 42x^3y^2 \div (-7xy) \div 3 & -2x^2 \text{ に代入} \\ = \frac{42x^3y^2}{(-7xy) \times 3y} = -2x^2 & -2 \times (-5)^2 = \underline{-50} \end{array}$$

$$(2) x = \frac{5}{3}, y = \frac{1}{2} \text{ のとき, } (2x - y) - (-4x + 7y) \text{ の値}$$
$$\begin{array}{ll} (2x - y) - (-4x + 7y) & 6x - 8y \text{ に代入} \\ = \underline{2x - y + 4x} - 7y & 6 \times \frac{5}{3} - 8 \times \frac{1}{2} = 10 - 4 = \underline{6} \\ = \underline{6x} - 8y & \end{array}$$

3 $A = 3x + y, B = -2x - 3y$ として、次の計算をなさい。

$$\begin{array}{lll} (1) 3A - 2B & \text{代入} & (2) 2A - (A - 2B) & A + 2B \text{ 代入} \\ 3(3x + y) - 2(-2x - 3y) & & \text{先に } 2A - A + 2B & (3x + y) + 2(-2x - 3y) \\ = \underline{9x + 3y + 4x} + 6y & & = A + 2B & = \underline{3x + y - 4x} - 6y \\ = \underline{13x} + 9y & & & = \underline{-x} - 5y \end{array}$$

1

(1) 26	(2) - 24
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2

(1) - 50	(2) 6
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3

(1) $13x + 9y$	(2) $-x - 5y$
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