

## 式の値を求める 標準2

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1       $x = -3$      $y = 2$  のとき、次の式の値を求めなさい。

(1)     $2(3x - 4y) - 3(x - 2y)$

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

2       $x = 4$        $y = -3$  のとき、次の式の値を求めなさい。

(1)     $12x^2y \div 6xy \times (-2y)$

(2)     $(-3x)^2 \times 2y \div 6x$

(3)     $\frac{2}{3}xy^2 \div \left(-\frac{4}{9}y\right)$

解答

$$\begin{aligned}
 \boxed{1} \quad (1) \quad & 2(3x - 4y) - 3(x - 2y) \\
 &= 6x - 8y - 3x + 6y \\
 &= 3x - 2y \\
 &3 \times (-3) - 2 \times (2) = -9 - 4 = -13
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{9x + 3y}{6} - \frac{2(x - y)}{6} \\
 = & \frac{9x + 3y - 2x + 2y}{6} \\
 = & \frac{7x + 5y}{6} \\
 = & \frac{7 \times -3 + 5 \times 2}{6} \\
 = & \frac{-21 + 10}{6} = -\frac{11}{6}
 \end{aligned}$$

$$\begin{aligned}
 \boxed{2} \quad (1) \quad & \frac{-24x^2y^2}{6xy} = -4xy \\
 & -4 \times 4 \times (-2) = 32
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & 9x^2 \times 2y \div 6x \\
 = & 18x^2y \div 6x = 3xy \\
 & 3 \times 4 \times (-3) = -36
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \frac{2}{3}xy^2 \times \left(-\frac{9}{4y}\right) \\
 = & -\frac{3}{2}xy \\
 & -\frac{3}{2} \times 4 \times (-3) = 18
 \end{aligned}$$