

式の値を求める 標準1

学習日 月 日

/ 点

1 $x = 3$ $y = -2$ のとき、次の式の値を求めなさい。

(1) $3(2x - y) - 2(x + 3y)$

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

2 $x = -2$ $y = 3$ のとき、次の式の値を求めなさい。

(1) $18x^2 \div (-3x) \div 2y$

(2) $(-2x)^2 \times 9xy \div 6x^2$

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

解答

$$\begin{aligned}
 \boxed{1} \quad (1) \quad & 3(2x - y) - 2(x + 3y) \\
 &= 6x - 3y - 2x - 6y \\
 &= 4x - 9y \\
 &4 \times 3 - 9 \times (-2) = 12 + 18 = 30
 \end{aligned}$$

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

$$\begin{aligned}
 \boxed{2} \quad (1) \quad & \frac{18x^2}{-6xy} = -3x \\
 & -3 \times (-2) = 6
 \end{aligned}$$

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

$$\begin{aligned}
 (3) \quad & 4x^2y \times \left(-\frac{3}{2xy}\right) \times 3y \\
 &= -6x \times 3y = -18xy \\
 & -18 \times (-2) \times 3 = 108
 \end{aligned}$$