



1. 次の式を、文字式の表し方にしたがって表しなさい。

(1) $3 \times b \times b$

(2) $x \times y \times z \div 4$

(3) $-2 \times a \div b$

(4) $\frac{2}{3} \times (-9y)$

(5) $(-5) \times a \times a \times b$

(6) $\frac{1}{2} \times (6y)$

(1) $3b^2$	(2) $\frac{xyz}{4}$	(3) $\frac{-2a}{b}$
(4) $-6y$	(5) $-5a^2b$	(6) $3y$

2. $x=3, y=-1$ を代入して次の式の値を求めなさい。

(1) $x - y + xy$

$3 - (-1) + 3 \times (-1)$
 $= 3 + 1 - 3 = 1$

(2) $7x - 2y^2$

$7 \times 3 - 2(-1)^2$
 $= 21 - 2 = 19$

(3) $x^2y - y^3$

$3^2 \times (-1) - (-1)^3$
 $-9 + 1 = -8$

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

$\frac{3^3}{-1} + (-1)^2 = \frac{27}{-1} + 1 = -26$

(5) $4x - 3y - x^2$

$4 \times 3 - 3 \times (-1) - (3)^2$
 $= 12 + 3 - 9 = 6$

(6) $x^2 + xy - y^2$

$3^2 + 3 \times (-1) - (-1)^2$
 $= 9 - 3 - 1 = 5$

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

$\frac{(3)^2 + (-1)^2}{3 - (-1)} = \frac{9 + 1}{3 + 1} = \frac{10}{4} = \frac{5}{2}$

(8) $\frac{x + y}{x - y}$

$\frac{3 + (-1)}{3 - (-1)} = \frac{2}{4} = \frac{1}{2}$

(9) $3(x + 0.5y) - 2(0.2x - y)$

$3 \times (3 + 0.5 \times (-1)) - 2 \times (0.2 \times (3) - (-1))$
 $= 3 \times (3 - 0.5) - 2 \times (0.6 + 1)$
 $= 3 \times (2.5) - 2 \times (1.6) = 7.5 - 3.2$
 $= 4.3$

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

$4 \times (3) - 3 \times (-1) + \frac{3}{-1}$
 $= 12 + 3 - 3 = 12$

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

$\frac{5 \times (3)^3 + 2 \times (-1)}{3 - (-1)}$
 $= \frac{5 \times (27) + (-2)}{3 + 1} = \frac{133}{4}$

(12) $\frac{0.5x - 0.25y}{0.2x + 0.1y}$

$\frac{0.5 \times (3) - 0.25 \times (-1)}{0.2 \times (3) + 0.1 \times (-1)} = \frac{1.5 + 0.25}{0.6 - 0.1}$
 $= \frac{1.75}{0.5} = 3.5$

(1) 1	(2) 19	(3) -8
(4)	(5) 6	(6) 5
(7) $\frac{5}{2}$	(8) $\frac{1}{2}$	(9) 4.3
(10) 12	(11) $\frac{133}{4}$	(12) $\frac{7}{2} = 3.5$