

[1] **解答** (1)  $-6a$  (2)  $2x$  (3)  $8a^2b$  (4)  $-3y^2$

$$(1) \quad 9ab \times 4b \div (-6b^2) = -\frac{9ab \times 4b}{6b^2} = -6a$$

$$(2) \quad 40x^3 \div (-5x) \div (-4x) = \frac{40x^3}{5x \times 4x} = 2x$$

$$(3) \quad 4a^2 \div 5b \times 10b^2 = \frac{4a^2 \times 10b^2}{5b} = 8a^2b$$

$$(4) \quad -5xy^2 \div 15x^2y \times 9xy = -\frac{5xy^2 \times 9xy}{15x^2y} = -3y^2$$

[2] **解答** (1)  $-3a^3$  (2)  $4xy$  (3)  $3a$  (4)  $-2x^2y$  (5)  $4b^2$  (6)  $-y^3$   
 (7)  $-24a^3b$  (8)  $9x^3$  (9)  $-10x^3y$  (10)  $a^2$

$$(1) \quad 9a^2 \times ab \div (-3b) = -\frac{9a^2 \times ab}{3b} = -3a^3$$

$$(2) \quad 16x^2 \div (-4xy) \times (-y^2) = \frac{16x^2 \times y^2}{4xy} = 4xy$$

$$(3) \quad -2a^2 \times 6b \div (-4ab) = \frac{2a^2 \times 6b}{4ab} = 3a$$

$$(4) \quad 8xy^2 \div (-12y) \times 3x = -\frac{8xy^2 \times 3x}{12y} = -2x^2y$$

$$(5) \quad 12ab \times (-2ab^2) \div (-6a^2b) = \frac{12ab \times 2ab^2}{6a^2b} = 4b^2$$

$$(6) \quad -5xy^3 \div 10x^3y^2 \times 2x^2y^2 = -\frac{5xy^3 \times 2x^2y^2}{10x^3y^2}$$

$$= -y^3$$

$$(7) \quad 3ab^2 \times 4a^2b \div \left(-\frac{1}{2}b^2\right) = 3ab^2 \times 4a^2b \times \left(-\frac{2}{b^2}\right) = -\frac{3ab^2 \times 4a^2b \times 2}{b^2}$$

$$= 2x$$

$$= -24a^3b$$

$$(8) \quad x^2 \times (-3xy)^2 \div xy^2 = x^2 \times 9x^2y^2 \div xy^2 = \frac{x^2 \times 9x^2y^2}{xy^2}$$

$$= 9x^3$$

$$(9) \quad (-4x)^2 \times 5x^4y \div (-2x)^3 = 16x^2 \times 5x^4y \div (-8x^3) = -\frac{16x^2 \times 5x^4y}{8x^3} = -10x^3y$$

$$= -y^3$$

$$(10) \quad \frac{27}{2}ab \div (-3b)^2 \times \frac{2}{3}ab = \frac{27ab}{2} \div 9b^2 \times \frac{2ab}{3}$$

$$= \frac{27ab}{2} \times \frac{1}{9b^2} \times \frac{2ab}{3}$$

$$= \frac{27ab \times 1 \times 2ab}{2 \times 9b^2 \times 3}$$

$$= a^2$$

$$= 9x^3$$

$$= 3a$$

$$(4) \quad 8xy^2 \div (-12y) \times 3x = -\frac{8xy^2 \times 3x}{12y} = -2x^2y$$

$$= 4b^2$$