



1. 次の計算をなさい。

(1)  $-5(2a + 3b - c)$   
 $-5 \times 2a - 5 \times 3b - 5 \times (-c)$

(2)  $\frac{3}{4}(8x^2 + 4x + 1)$   
 $\frac{3}{4} \times 8x^2 + \frac{3}{4} \times 4x + \frac{3}{4} \times 1$

(3)  $-2(-7a - 3b - 4c)$   
 $-2 \times (-7a) - 2 \times (-3b) - 2 \times (-4c)$

(4)  $(4ab + 2bc + 6ca) \div 6$   
 $(4ab + 2bc + 6ca) \times \frac{1}{6}$   
 $\frac{1}{6} \times 4ab + \frac{1}{6} \times 2bc + \frac{1}{6} \times 6ca$

(5)  $(-2x^2 + y^2 - 4z^2) \div \left(-\frac{1}{2}\right)$   
 $(-2x^2 + y^2 - 4z^2) \times (-2)$   
 $-2 \times (-2x^2) - 2 \times y^2 - 2 \times (-4z^2)$

(6)  $\left(\frac{4}{3}x + \frac{7}{5}y - \frac{3}{2}z\right) \div (-3)$   
 $\left(\frac{4}{3}x + \frac{7}{5}y - \frac{3}{2}z\right) \times \left(-\frac{1}{3}\right)$   
 $-\frac{1}{3} \times \frac{4}{3}x - \frac{1}{3} \times \frac{7}{5}y - \frac{1}{3} \times \left(-\frac{3}{2}z\right)$

(1) $-10a - 15b + 5c$	(2) $6x^2 + 3x + \frac{3}{4}$	(3) $14a + 6b + 8c$
(4) $\frac{2ab}{3} + \frac{bc}{3} + ca$	(5) $4x^2 - 2y^2 + 8z^2$	(6) $-\frac{4}{9}x - \frac{7}{15}y + \frac{z}{2}$

2. 次の計算をなさい。

(1)  $-5(2a^2 + 3a) + 4(3a^2 - a)$   
 $-10a^2 - 15a + 12a^2 - 4a$

(2)  $4(-2x + 7y + z) - 3(9z + y - 4x)$   
 $-8x + 28y + 4z - 27z - 3y + 12x$

(3)  $\frac{4x^2 - 2x}{3} + \frac{x^2 + 7x}{4}$   
 $\frac{4(4x^2 - 2x) + 3(x^2 + 7x)}{12}$   
 $= \frac{16x^2 - 8x + 3x^2 + 21x}{12} = \frac{19x^2 + 13x}{12}$

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

(5)  $\frac{12a + 3b}{4} - \frac{4a - 9b}{5}$   
 $\frac{5(12a + 3b) - 4(4a - 9b)}{20}$   
 $= \frac{60a + 15b - 16a + 36b}{20} = \frac{44a + 51b}{20}$

(6)  $\frac{a - b + c}{2} + \frac{3a - 2b - c}{4} - \frac{2a - c}{3}$   
 $\frac{6(a - b + c) + 3(3a - 2b - c) - 4(2a - c)}{12}$   
 $= \frac{6a - 6b + 6c + 9a - 6b - 3c - 8a + 4c}{12} = \frac{7a - 12b + 7c}{12}$

(1) $2a^2 - 19a$	(2) $4x + 25y - 23z$	(3) $\frac{19x^2 + 13}{12}$
(4) $-\frac{a}{4} + \frac{b}{2}$	(5) $\frac{11}{5}a + \frac{51}{20}b$	(6) $\frac{7}{12}a - b + \frac{7}{12}c$