

[1] 解答

- (1) $18x + 15y$ (2) $a + 4b$ (3) $13m + n$ (4) $14x - 3y$
- (5) $13a - 30b$ (6) $-18x - 2y$ (7) $8a$ (8) $9p + 36q$
- (9) $15x^2 + 11x - 22$ (10) $34a^2 + 35ab - 24b^2$

(1) $8x + 5(2x + 3y) = 8x + 10x + 15y = 18x + 15y$

(2) $-4(6a - b) + 25a = -24a + 4b + 25a$
 $= -24a + 25a + 4b = a + 4b$

(3) $2(9m - 3n) + (-5m + 7n) = 18m - 6n - 5m + 7n$
 $= 18m - 5m - 6n + 7n = 13m + n$

(4) $3(2x + 5y) + 2(4x - 9y) = 6x + 15y + 8x - 18y$
 $= 6x + 8x + 15y - 18y = 14x - 3y$

(5) $3(a - 5b) + 5(2a - 3b) = 3a - 15b + 10a - 15b$
 $= 3a + 10a - 15b - 15b = 13a - 30b$

(6) $2(-5x + y) - 4(2x + y) = -10x + 2y - 8x - 4y$
 $= -10x - 8x + 2y - 4y = -18x - 2y$

(7) $5(3a - 7b) - 7(a - 5b) = 15a - 35b - 7a + 35b$
 $= 15a - 7a - 35b + 35b = 8a$

(8) $-3(p - 2q) + 6(2p + 5q) = -3p + 6q + 12p + 30q$
 $= -3p + 12p + 6q + 30q = 9p + 36q$

(9) $3(x^2 - 7x + 2) + 4(3x^2 + 8x - 7) = 3x^2 - 21x + 6 + 12x^2 + 32x - 28$
 $= 3x^2 + 12x^2 - 21x + 32x + 6 - 28 = 15x^2 + 11x - 22$

(10) $7(4a^2 + 5ab - 2b^2) - 2(5b^2 - 3a^2) = 28a^2 + 35ab - 14b^2 - 10b^2 + 6a^2$
 $= 28a^2 + 6a^2 + 35ab - 14b^2 - 10b^2$
 $= 34a^2 + 35ab - 24b^2$

[2] 解答

- (1) $\frac{4x - 7y}{4}$ (2) $\frac{5x + 8y}{6}$ (3) $\frac{-3x - 2y}{9}$ (4) $\frac{-a + 5b}{2}$
- (5) $\frac{21a - 23b}{10}$ (6) $\frac{27a + b}{12}$ (7) $\frac{-11a + 27b}{12}$

(1) $\frac{2x + y}{4} + \frac{x - 4y}{2} = \frac{2x + y}{4} + \frac{2(x - 4y)}{4} = \frac{2x + y + 2x - 8y}{4} = \frac{4x - 7y}{4}$

(2) $\frac{2x + 3y}{3} + \frac{x + 2y}{6} = \frac{2(2x + 3y)}{6} + \frac{x + 2y}{6}$