

- 1** **解答** (1)  $a^2 + a - 12$  (2)  $18x^2 + 27x + 10$  (3)  $12x^2 - 17x - 5$   
 (4)  $20n^2 - 13n - 21$  (5)  $45a^2 - 67a + 24$  (6)  $49a^2 + 28ab - 12b^2$   
 (7)  $10x^2 - 59xy + 63y^2$  (8)  $-3a^2 + 7ab - 2b^2$  (9)  $2x^2 + 7xy + 6y^2$
- (1)  $(a-3)(a+4) = a^2 + 4a - 3a - 12 = a^2 + a - 12$   
 (2)  $(6x+5)(3x+2) = 18x^2 + 12x + 15x + 10 = 18x^2 + 27x + 10$   
 (3)  $(4x+1)(3x-5) = 12x^2 - 20x + 3x - 5 = 12x^2 - 17x - 5$   
 (4)  $(5n-7)(4n+3) = 20n^2 + 15n - 28n - 21 = 20n^2 - 13n - 21$   
 (5)  $(5a-3)(9a-8) = 45a^2 - 40a - 27a + 24 = 45a^2 - 67a + 24$   
 (6)  $(7a+6b)(7a-2b) = 49a^2 - 14ab + 42ab - 12b^2 = 49a^2 + 28ab - 12b^2$   
 (7)  $(2x-9y)(5x-7y) = 10x^2 - 14xy - 45xy + 63y^2 = 10x^2 - 59xy + 63y^2$   
 (8)  $(-3a+b)(a-2b) = -3a^2 + 6ab + ab - 2b^2 = -3a^2 + 7ab - 2b^2$   
 (9)  $(4x+8y)\left(\frac{1}{2}x + \frac{3}{4}y\right) = 2x^2 + 3xy + 4xy + 6y^2 = 2x^2 + 7xy + 6y^2$
- 2** **解答** (1)  $x^2 + 14x + 45$  (2)  $a^2 + 11a + 24$  (3)  $x^2 - 4x - 12$   
 (4)  $x^2 - 5x - 24$  (5)  $p^2 + 3p - 70$  (6)  $x^2 - 6x - 72$   
 (7)  $y^2 + 7y - 120$  (8)  $x^2 - 12x + 27$  (9)  $x^2 - 17x + 52$   
 (10)  $a^2 - 18a + 77$  (11)  $x^2 - \frac{11}{6}x - \frac{5}{3}$  (12)  $a^2 - a - 12$
- (1)  $(x+9)(x+5) = x^2 + (9+5)x + 9 \times 5 = x^2 + 14x + 45$

- (2)  $(a+3)(a+8) = a^2 + (3+8)a + 3 \times 8 = a^2 + 11a + 24$   
 (3)  $(x-6)(x+2) = x^2 + (-6+2)x + (-6) \times 2 = x^2 - 4x - 12$   
 (4)  $(x-8)(x+3) = x^2 + (-8+3)x + (-8) \times 3 = x^2 - 5x - 24$   
 (5)  $(p-7)(p+10) = p^2 + (-7+10)p + (-7) \times 10 = p^2 + 3p - 70$   
 (6)  $(x+6)(x-12) = x^2 + (6-12)x + 6 \times (-12) = x^2 - 6x - 72$   
 (7)  $(y+15)(y-8) = y^2 + (15-8)y + 15 \times (-8) = y^2 + 7y - 120$   
 (8)  $(x-9)(x-3) = x^2 + (-9-3)x + (-9) \times (-3) = x^2 - 12x + 27$   
 (9)  $(x-4)(x-13) = x^2 + (-4-13)x + (-4) \times (-13) = x^2 - 17x + 52$   
 (10)  $(a-11)(a-7) = a^2 + (-11-7)a + (-11) \times (-7) = a^2 - 18a + 77$   
 (11)  $\left(x + \frac{2}{3}\right)\left(x - \frac{5}{2}\right) = x^2 + \left(\frac{2}{3} - \frac{5}{2}\right)x + \frac{2}{3} \times \left(-\frac{5}{2}\right) = x^2 - \frac{11}{6}x - \frac{5}{3}$   
 (12)  $(3+a)(-4+a) = (a+3)(a-4) = a^2 + (3-4)a + 3 \times (-4) = a^2 - a - 12$