

## 多項式の積の展開 解答と解説

1 解答 (1)  $xy+3x+y+3$  (2)  $xy+4x-2y-8$  (3)  $2ab-2a+3b-3$

(4)  $ac-ad-bc+bd$

(1)  $(x+1)(y+3) = x \times y + x \times 3 + 1 \times y + 1 \times 3$   
 $= xy + 3x + y + 3$

(2)  $(x-2)(y+4) = x \times y + x \times 4 - 2 \times y - 2 \times 4$   
 $= xy + 4x - 2y - 8$

(3)  $(2a+3)(b-1) = 2a \times b + 2a \times (-1) + 3 \times b + 3 \times (-1)$   
 $= 2ab - 2a + 3b - 3$

(4)  $(a-b)(c-d) = a \times c + a \times (-d) - b \times c - b \times (-d)$   
 $= ac - ad - bc + bd$

2 解答 (1)  $x^2+5x+6$  (2)  $x^2+4x-5$  (3)  $2a^2-7a-4$  (4)  $-6a^2+13a-6$

(1)  $(x+2)(x+3) = x^2 + 3x + 2x + 6$   
 $= x^2 + 5x + 6$

(2)  $(x-1)(x+5) = x^2 + 5x - x - 5$   
 $= x^2 + 4x - 5$

(3)  $(2a+1)(a-4) = 2a^2 - 8a + a - 4$   
 $= 2a^2 - 7a - 4$

(4)  $(3a-2)(-2a+3) = -6a^2 + 9a + 4a - 6$   
 $= -6a^2 + 13a - 6$