

## 2 多項式の乗法

p.12

問 
$$(a+b)(c+d)$$

$$=N(c+d)$$

$$=Nc+Nd$$

$$=(a+b)c+(a+b)d$$

$$=ac+bc+ad+bd$$

p.13

(1) 
$$(x+6)(y+2)$$
  
=  $xy+2x+6y+12$   
(2)  $(a-3)(b+2)$ 

=ab+2a-3b-6

(1) 
$$(x+7)(x+4)$$
  
 $=x^2+4x+7x+28$   
 $=x^2+11x+28$   
(2)  $(4x-3)(2x+1)$   
 $=8x^2+4x-6x-3$   
 $=8x^2-2x-3$ 

图2 (1) 
$$(a-b)(c-d)$$
  
 $=ac-ad-bc+bd$   
(2)  $(2x+1)(y-7)$   
 $=2xy-14x+y-7$   
(3)  $(x+2)(x+4)$   
 $=x^2+4x+2x+8$   
 $=x^2+6x+8$   
(4)  $(x-2)(x-3)$   
 $=x^2-3x-2x+6$   
 $=x^2-5x+6$   
(5)  $(2a+b)(a+3b)$   
 $=2a^2+6ab+ab+3b^2$   
 $=2a^2+7ab+3b^2$   
(6)  $(4x-1)(3x-2)$   
 $=12x^2-8x-3x+2$ 

 $=12x^2-11x+2$ 

(1) See

$$(1) (1+x)(3+x)$$

$$= 3+x+3x+x^{2}$$

$$= 3+4x+x^{2}$$

$$(2) (x-3)(2x+6)$$

$$= 2x^{2}+6x-6x-18$$

$$= 2x^{2}-18$$