

# 多項式

## 1-1 式の乗法と除法

p.19

### Try

- (1) ①  $4x^2+8xy$       ②  $-19x-x^2$   
 ③  $4a+1$       ④  $-18a+6b$
- (2) ①  $xy+4x-2y-8$   
 ②  $6a^2+ab-2b^2$   
 ③  $x^2-xy-2x-2y^2+4y$   
 ④  $x^2+2xy-3x+y^2-3y+2$

p.19

### Exercise

- (1) ①  $-6x^2+12xy$       ②  $-8a^2+2ab$   
 ③  $4x^2-12xy-8x$       ④  $-4x^2-3x$   
 ⑤  $-a^2-16ab$       ⑥  $-7x^2+9x$   
 ⑦  $2xy-1$       ⑧  $-2a+1$   
 ⑨  $-4x+5y$       ⑩  $15x+20y$   
 ⑪  $6y-3$       ⑫  $-3x+6y$
- (2) ①  $ab-4a+3b-12$   
 ②  $ac+ad-bc-bd$   
 ③  $ax+ay+bx+by$   
 ④  $2x^2+5x-12$   
 ⑤  $6x^2+11x+4$   
 ⑥  $6x^2+7xy-3y^2$   
 ⑦  $x^2-2xy+2x-6y-3$   
 ⑧  $12x^2+5xy-4x-2y^2+y$   
 ⑨  $x^2+x-9y^2+3y$   
 ⑩  $x^2-y^2+14y-49$   
 ⑪  $a^2-4ab-a+4b^2+2b-12$   
 ⑫  $a^2-2ab+b^2-16$

(3) 展開

## 1-2 乗法公式

p.21

### Try

- (1)  $x^2+10x+25$       (2)  $4x^2-12xy+9y^2$

p.22

### Exercise

- (1) ①  $x^2+12x+36$       ②  $x^2+6xy+9y^2$   
 ③  $25a^2+20ab+4b^2$   
 ④  $x^2-4x+4$       ⑤  $x^2-8xy+16y^2$   
 ⑥  $9a^2-24ab+16b^2$       ⑦  $x^2-16$   
 ⑧  $4a^2-49b^2$       ⑨  $16x^2-25y^2$   
 ⑩  $x^2+7x+12$       ⑪  $a^2-a-6$   
 ⑫  $x^2-7x+10$       ⑬  $16x^2+4x-2$   
 ⑭  $4x^2-4x-3$       ⑮  $9x^2-21x+10$   
 ⑯  $xy-2x-5y+10$       ⑰  $8x^2+10x-3$   
 ⑱  $6a^2-ab-b^2$       ⑲  $x^2-x+\frac{3}{16}$   
 ⑳  $a^2+\frac{1}{4}a-\frac{3}{8}$       ㉑  $x^2-\frac{5}{12}x-\frac{1}{6}$
- (2) ①  $xy-3x+2y-6$       ②  $x^2-10x+25$   
 ③  $x^2-36$       ④  $x^2+4x-21$   
 ⑤  $49b^2-9a^2$       ⑥  $x^2+x-20$   
 ⑦  $6x^2-13x-5$       ⑧  $25x^2-20xy+4y^2$   
 ⑨  $9x^2-9x-10$       ⑩  $4x^2+12x+9$   
 ⑪  $9a^2-4$       ⑫  $18x^2+31xy+6y^2$
- (3) ①  $x^2+2ax+a^2$       ②  $x^2-2ax+a^2$   
 ③  $x^2-a^2$       ④  $x^2+(a+b)x+ab$

## 1-3 乗法公式を利用する計算

p.23

### Try

- (1)  $5x+10$       (2)  $-9$   
 (3)  $-x^2+16x-48$       (4)  $-2x^2+10x-21$

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### Exercise

- (1) 12      (2)  $6a+10$   
 (3)  $28x+29$       (4)  $x^2-12x+19$   
 (5)  $2x^2+8x-24$       (6)  $4xy$   
 (7)  $-x+25$       (8)  $-4a+7$   
 (9)  $-6x+25$       (10)  $x+8$   
 (11)  $-a^2+14a$       (12)  $x^2+6x-11$