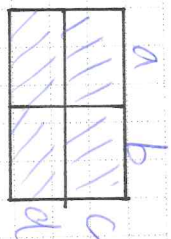


= L.

1. 分配律

$$(a+b)(c+d) = ac + ad + bc + bd$$



2. 乘法公式

$$(1) (a+b)^2 = a^2 + 2ab + b^2$$

$$= \underbrace{(a+b)}_{\text{和的平方}} \underbrace{(a+b)}_{\text{和的平方}}$$

$$(2) (a-b)^2 = a^2 - 2ab + b^2$$

$$= \underbrace{(a-b)}_{\text{差的平方}} \underbrace{(a-b)}_{\text{差的平方}}$$

$$(3) a^2 - b^2 = (a+b) \times (a-b) \text{ 平方差}$$

Ex. (1) 1999×1998

$$= (2000 - 1) (2000 - 2)$$

$$= 3999998 \#$$

$$(2) \left(49 \frac{3}{4}\right)^2$$

$$= \left(50 - \frac{1}{4}\right)^2$$

$$= 50^2 + 2 \times 50 \times \frac{1}{4} + \frac{1}{4}^2$$

$$= 2495 \frac{1}{4} \#$$

$$(3) 19^2 - 19^2$$

$$= (119 + 19) (119 - 19)$$

$$= 13800 \#$$

$$(4) \left(100 \frac{1}{4}\right)^2$$

$$= \left(1100 + \frac{1}{4}\right)^2$$

$$= 1000 + \frac{1}{4} + 50$$

$$= 10050 \frac{1}{4} \#$$

$$(5) \frac{12^2 - 28^2}{12^2 + 12 \times 56 + 28^2}$$

53. 分母分解理

$$= \frac{(12+28)(12-28)}{(12+28)^2} = \frac{100 \times 44}{100^2}$$

$$= \frac{4400}{10000} = \frac{44}{1000} = \frac{11}{250} \#$$