

永中 鍾定翔

DATE 2024

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NO

三校表 111

三校表 183

ex. 7 calc

$$1) (x-1)^3(x+1)^3$$

$$= [(x-1)(x+1)]^3$$

$$= (x^2-1)^3$$

$$= (x^2-1)(x^2-1)(x^2-1)$$

$$= x^6 - x^4 - x^4 + x^2 - x^4 + x^2 + x^2 - 1$$

$$= x^6 - 3x^4 + 3x^2 - 1 \#$$

$$2) (x-2)(3x+6) + (x-2)(2x+1) - (x-2)(4x+5)$$

$$= (x-2)(3x+6+2x+1-4x-5)$$

$$= (x-2)(x-2)$$

$$= x^2 - 4 \#$$

$$3) (x-2)(x-1)x(x+1)(x+2)$$

$$= [(x-2)(x+2)][(x-1)(x+1)]x$$

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

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

$$= x^5 - 5x^3 + 4x \#$$