DATE 2024 .11 .18 NO 三核数 110

ex.6 calc 三核数作 82 补中鍾定期

Def) $A = 2x^3 - x^2 - 3x + 11$, $B = -2x^3 + x - 1$, $C = 2x^3 - 4x^6 - x^2 + 7x$

1) $A+B$

$= (2x^3 - x^2 - 3x + 11) + (-2x^3 + x - 1)$

$= 2x^3 - x^2 - 3x + 11 - 2x^3 + x - 1$

$= -x^2 - 2x + 10$ #

2) $A-C$

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

$= 2x^3 - x^2 - 3x + 11 - 2x^3 + 4x^6 + x^2 - 7x$

$= 4x^6 - 10x + 11$ #

3) $A \times B$

$= (2x^3 - x^2 + 3x + 11)(-2x^3 + x - 1)$

$= -4x^6 + 2x^4 - 2x^3 + 2x^5 - x^3 + x^2 - 6x^4 + 3x^2 - 3x$
$- 22x^3 + 11x - 11$

$= -4x^6 + 2x^5 - 4x^4 - 25x^3 + 4x^2 + 8x - 11$ #

4) $B^2 + C$

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

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

$= 4x^6 - 4x^4 + 4x^3 + x^2 - 2x + 1 + 2x^3 - 4x^6 - x^2 + 7x$

$= -4x^4 + 6x^3 + 5x + 1$ #