SIMULTANEOUS ROUNDTABLE

SIMPLIFY THE EXPRESSIONS

$(-2x^3 - x + 3) + (4x^3 + 3x^2 - 4x + 1)$

$-2x^3 + 0x^2 - x + 3$

$+(4x^3 + 3x^2 - 4x + 1)$

$2x^3 + 3x^2 - 5x + 4$

$(2x - 3)(3x^2 + 4x + 2)$

$6x^3 + 8x^2 + 4x - 9x^2 - 12x - 6$

$6x^3 - x^2 - 8x - 6$

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

$12x^2 - 15x + 8x - 10$

$12x^2 - 7x - 10$

$(3x^4 + x^2 - 2x + 3) - (-x^4 + 2x^3 - 4)$

$3x^4 + 0x^3 + x^2 - 2x + 3$

$-(-x^4 + 2x^3 + 0x^2 + 0x - 4)$

$4x^4 - 2x^3 + x^2 - 2x + 7$

$(4x^4 + 3x^2 - 5x) - (x^3 - 5x^2 - 2x + 7)$

$(4x^4 + 0x^3 + 3x^2 - 5x + 0)$

$(0x^4 + x^3 - 5x^2 - 2x + 7)$

$4x^4 - x^3 + 8x^2 - 3x - 7$

$(3x + 2)^3$

$(3x + 2)(3x + 2)(3x + 2)$

$9x^2 + 6x + 6x + 4$

$(9x^2 + 12x + 4)(3x + 2)$

$27x^3 + 18x^2 + 36x^2 + 24x + 12x + 8$

$27x^3 + 54x^2 + 36x + 8$

7. The dimensions of a box of cereal are listed below. Find the volume of the box.

$x - 1$

$2x - 3$

$x + 5$

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

$2x^2 - 3x - 2x + 3$

$(2x^2 - 5x + 3)(x + 5)$

$2x^3 + 10x^2 - 5x^2 - 25x + 3x + 15$

$2x^3 + 5x^2 - 22x + 15$

8. Find the area of a pool with a length of $2x + 5$ and a width of $x^2 - 3x + 1$.

$(x^2 - 3x + 1)(2x + 5)$

$2x^3 + 5x^2 - 6x^2 - 15x + 2x + 5$

$2x^3 - x^2 - 13x + 5$