



Adding and Subtracting Polynomials

Version 1

Name: _____

Date: _____

Score: _____

Direction: Add and subtract the following polynomials. Show all your work in the space provided.

1) $(-1 + x^2 - 5x^3 + 8x^4) + (-5x^4 - x^3 + 4x^2 - 4)$

2) $(x^4 - 5 + x^2 - 3 - x + 7x^3) - (2x - 3x^4 + 1 - x^2 - 2x^3)$

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

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



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$$1) (-1 + x^2 - 5x^3 + 8x^4) + (-5x^4 - x^3 + 4x^2 - 4)$$

$$3x^4 - 6x^3 + 5x^2 - 5$$

$$2) (x^4 - 5 + x^2 - 3 - x + 7x^3) - (2x - 3x^4 + 1 - x^2 - 2x^3)$$

$$4x^4 + 9x^3 + 2x^2 - 3x - 9$$

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

$$-y^3 - 4y^2 + 5x + 6$$

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

$$-4x^2 + 4y - 11$$