



Adding and Subtracting Polynomials

Version 2

Name: _____

Date: _____

Score: _____

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

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

2) $(-y + 8y^2 - y^4 + 1) - (y^3 - 4 - y^4 + 7y^2)$

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

4) $(x + y + 1) - (-x + y - 1) - (x + y - 1)$



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

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

2) $(-y + 8y^2 - y^4 + 1) - (y^3 - 4 - y^4 + 7y^2)$

$$-y^3 + y^2 - y + 5$$

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

$$2y^2 + y - 2x^2 - 7x + 7$$

4) $(x + y + 1) - (-x + y - 1) - (x + y - 1)$

$$x - y + 3$$