

Adding and Subtracting Polynomials

Date _____ Period _____

Simplify each expression.

1) $(7 - 14k^3 + 3k^4) + (-9k^4 + 7 - 8k^3)$

2) $(-3v^3 - 8v^4 + 12v^5) - (-2v^3 - 6v^5 + v^4)$

3) $(-2m^5 + 11 - 12m) - (7m^5 - 4 + 2m)$

4) $(-4m + 10m^5 - 13) - (-2 - 9m^5 + 4m)$

5) $(-7 - 12x^3 - 10x) + (-2 + 10x^3 + 4x^5)$

6) $(3uv^4 - 2u^2) + (10u^2 + 2uv^4 - 10uv^3) + (13uv^4 + 5u^2)$

7) $(-12a^2b^4 + 8a^3b^2) + (13a^2b^4 + 5a^3b^2 + 9a^3) + (11a^3 - 12a^3b^2)$

8) $(9y + 5xy^3) - (-14y + 11xy^3 - 8x^2y^3) - (-9xy^3 + 10x^2y^3)$

9) $(-13x^2y^3 - 4x^3y) + (-3x^3y + 9x^4y^4 + 4xy^2) + (13x^3y + 7x^2y^3)$

10) $(-11xy^4 + 12x^3y) + (5xy^4 + 7x^4y^3 + 14x^2) + (-13x^2 + 13x^3y)$