Algebra 1

Name_____

Adding and Subtracting Polynomials

Date_____

Simplify each expression.

1) $(5+n)-(4-n)$

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

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

4) $(4a^2-4a^4)-(4a+a^4)$

5) $(14x^4+8x^3+13)+(3x^5+5x^3+6x^4)$

6) $(-m-11m^5+9m^2)-(-2m-13m^5+10m^2)$

7) $(-7x^3-9x^5+8)-(12-5x^2-3x^3)$

8) $(2+12n^3-8n^2)-(9n^5-13+8n^3)$

9) $(x^2-10x^2y^4)+(14x^2y^4+3x^2+8y)+(-2y^2-4x^2)$

10) $(-8a^4b^2+6a^4b^4)-(-8a^4b^2+11a^4b^4+5a^4)+(-6a^4-6a^4b^2)$

11) $(-7m^4n^4-12m^4n^2)+(-6m^4n^2+9m^3n^3+2m^4n^4)+(-5m^4n^4-11m^4n^2)$

12) $(-11x^3 - 3y^2) - (-11x^3 - 10y^2 - 14x^2y) - (-6x^2y - 10x^3)$

13) $(13x^2 - 14x^4y^4) + (-14x^2 + 7x^4y^4) - (-5x^4y^4 + 10x^2)$

14) $(-12u^2v^2 + 14u^3) - (11u^3 + 10u^2v^2) - (-8u^3 - 14u^2v^2)$

15) $(-14ab^2 - 13a^2b^3 + 5b^2) - (9a^2 + 11b^2 + 10ab^2) + (10a^2b^3 + 6a^2 + b^2)$

16) $(11n^4 - 7mn^3 + 4m^3n^4) - (11n^4 + 7m^3n^4 + 5mn^3) - (-12m^3n^4 - 5mn^3 + 14n^4)$

17) $(n - 9m^4n^3 - 6m^4n^4 + 5n^2) + (-7n - 14m^4n^4 + 10n^2 - 11m^4n^3) + (-3m^4n^3 - 8m^4n^4 + 14n^2 - 10n)$

18) $(4m^3n + 6n + 9 - 9mn) + (2n - 14m^2 + 6n^3 - 9) + (8mn^3 - 9 + 2n^3 - 6m^3n)$