Math 10C

Name_____

Adding and Subtracting Polynomials

Date_____

Simplify each expression.

1) $(6k^3 + 4k^2) + (5k^3 - 2k)$

2) $(6x^2 + 8x) - (5x - 8x^2)$

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

4) $(6x^2 - 7) + (3 - 8x^4)$

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

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

7) $(4n^2 + n^3 - 4) - (2 + 7n^2 + 2n^3)$

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

9) $(1 - 2a^2 - 7a^3) - (5a^3 - 6a^2 + 3a)$

10) $(8m + 3m^3 + 8m^2) - (2m - m^3 + 7m^2)$

11) $(-2n^2 + 6) + (8n^2 - 7n^4) + (-10n^2 + 13)$

12) $(14x - 4x^5) - (-3x^4 - 11x) + (3x^4 + x)$

13) $(-2 - 2n) + (3n - 8) - (11n^3 - 11n)$

14) $(-7p + 9p^3) + (9p + 13p^3) - (-4p - 4p^2)$

15) $(14a^4 - 5a) - (7a^4 + 5) + (-6a + 10a^4)$

16) $(-5m^3 - 10m) + (-10m - 7m^3 - 13m^3n) - (2m + 8m^3)$

17) $(10a^2b + 13ab) + (-7a^4 + 2a^2b + 14ab) - (-8a^2b + 12a^4)$

18) $(6x^4 + 12y^3) + (3y + 2y^3 + 14x^4) + (2x^4 + 14y^3)$

19) $(-11u^2v + 12u^3v) + (14u^2v^2 + 2v + 10u^3v) + (-10u^2v^2 + 13u^3v)$

20) $(9xy^3 - 11x^2y^4) - (6x^2y^4 - xy^3 - 14xy^4) + (9x^4y^3 + 7x^2y^4)$