

HOMEWORK 3.0 – Operations with Polynomials

Name: _____ Date: _____ Period: _____

Perform each operation.

1. $(4x^3 - 12x) + (-6x + 12x^3 - 3)$	2. $(-7 - 3x^2 - 6x^3) + (6x^2 + 10 + 10x^3)$
3. $(6a - 7a^4 - 14) - (4a^3 + 3a^4 - 5a)$	4. $(3x^2 + x^4 - 6x + 2) - (15x^4 + 2x^3 - 6x^2 + 5x - 3)$
5. $-(3y^5 + 6y^4 - 7y^3 - 5) + (y^5 - y^4 + 3y^2 - 2y - 8)$	6. $(3x^2y)(5x^3z)$
7. $(2x^2y^2)(4xy^5z^3)(-3x^5y^{10}z^{18})$	8. $4a(a^2 - 2)$

Homework: Operations with Polynomials

9. $4x^2(3x - y + 5x^2y)$

10. $(4x + 5)(3x - 2)$

11. $(-5x + 7)^2$

12. $(x^2 - 2)(4x^2 - 3x + 2)$

13. $(3b + 5)(2b^3 - 4b^2 + b - 1)$

14. $\frac{20x^3 - 15x}{5x}$

15. $\frac{12x^{12} - 8x^8 + 4x^6}{4x^4}$

16. $\frac{90xy^3 + 18xy^2 - 45x^2y}{9xy}$