

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 11A.1 – Classifying, Adding, & Subtracting Polynomials

#1-6, Classify each polynomial by number of terms and by degree.		
1. $3x + 2$	2. $x^2 + 3x^4 - 2 + 8x^3$	3. $5a^3$
4. $x^2 + 5x + 4$	5. $4z^5 - 2z^4 + 3z^3 - 2z^2 - z - 1$	6. 8

#7-9, Write each polynomial in standard form.		
7. $4 - 2n + 3n^2$	8. $8 + 2x$	9. $x^2 + 3x^4 - 2 + 8x^3$

#10-15, Simplify. Write all answers in standard form.	
10. $(3x^2 + 4x^4 - 2x + 1) + (6x^4 + 9x^2 - 8 - 2x)$	11. $(3x^2 + 4x^4 - 2x + 1) - (6x^4 + 9x^2 - 8 - 2x)$
12. $(2y^3 - 4y^2 + 3) + (8y^2 + 3y + 7y^3 - 5)$	13. $(2y^3 - 4y^2 + 3) - (8y^2 + 3y + 7y^3 - 5)$
14. $(4x^4 - 12x^3 + 2x^2 - 3x + 2) + (4x^4 + 2 + 2x^2)$	15. $(4x^4 - 12x^3 + 2x^2 - 3x + 2) - (4x^4 + 2 + 2x^2)$