	Name:
	Date: Per:
Topic 1: Writing Polynomials in Standard Form	
Directions: Write each polynomial in standard form	
1. $a^2 + 3a^4 - 7a + 2a^3 - 4$	2. $8y^3 - 3xy^2 - x^2y + 2x^3$
Topic 2: Classifying Polynomials	
Directions: Classify each polynomial by degree and number of terms.	
3. 3 <i>x</i> +12	4. 24
5. $-7x^2 + 4x + 1$	6. $3x^4 - x^3 + 5x^2 + x - 7$
Topic 3: Simplifying Polynomials	
Directions: Simplify each polynomial. Write all answers in standard form.	
7. $(2x^2 + 3x + 2) - (x^2 - 4x - 1)$	8. $2a^3(5a^2-7a)+(3a^4-a^5)$
9. $5c^2d(9c^2d^2-4c^3d-2)$	10. $-4y(5y-11)-2y(3y+10)$
11. $(x-1)(4x-3)$	12. $(5y-1)^2$
13. $(2x+5y)(x-3y)$	14. $(x+4)(4x-2)=2x^2$

16. 3.2.d. 1

13. 8.5 20,143