Name		Class	Date				
01	Practice			Form G			
0-1	Adding and Subtracting Polynomials						
Find the deg	ree of each monomial.						
1. $2b^2c^2$	2. 5 <i>x</i>	3. $7y^5$	4. 19 <i>ab</i>				
			4				
5. 12	6. $\frac{1}{2}z^2$	7. <i>t</i>	8. 4 <i>d</i> ⁴ <i>e</i>				
Simplify.							
9. $2a^3b + 4a^3b$	$a^{3}b$	10. $5x^3 - 4x^3$					
11. $3m^6n^3 - 5$	$5m^6n^3$	12. $4c^2d^6 - 7c$	$^{2}d^{6}$				

a) Write each polynomial in standard form.

b) Name each polynomial based on its degree and number of terms.

13. $15x - x^3 + 3$	14. $5x + 2x^2 - x + 3x^4$	15. $9x^3$	
a	a	a	
b	b	b	
16. $7b^2 + 4b$	17. $-3x^2 + 11 + 10x$	18. $12t^2 + 1 - 3x + 8 - 2x$	
a	a	a	
b	b	b	
Simplify.			
19. 8 <i>z</i> – 12	20. $9x^3 + 3$	21. $6j^2 - 2j + 5$	
+ 6z + 9	$+4x^{3}+7$	$+ 3j^2 + 4j - 6$	

22. $(3k^2 + 5) + (16x^2 + 7)$

23. $(g^4 - 4g^2 + 11) + (-g^3 + 8g)$

24. A local deli kept track of the sandwiches it sold for three months. The polynomials below model the number of sandwiches sold, where *s* represents days.

Ham and Cheese: $4s^3 - 28s^2 + 33s + 250$ Pastrami: $-7.4s^2 + 32s + 180$

Write a polynomial that models the total number of these sandwiches that were sold.

Simplify.

25.	11n - 4	26.	$7x^4 + 9$	27.	$3d^2 + 8d - 2$
	-(5n+2)		$-(8x^4+2)$		$-(2d^2-7d+6)$

28.
$$(28e^3 + 3e^2) + (19e^3 + e^2)$$

29. $(-12h^4 + h) - (-6h^4 + 3h^2 - 4h)$

30. A small town wants to compare the number of students enrolled in public and private schools. The polynomials below show the enrollment for each:

Public School: $-19c^2 + 980c + 48,989$ Private School: 40c + 4046

Write a polynomial for how many more students are enrolled in public school than private school.

31. Error Analysis Describe and correct the error in simplifying the sum shown at the right.

	6x ³ + 4x - 10
+	$(-3x^2 + 2x + 8)$
	$3x^3 + 6x - 2$