

NAME _____ DATE _____

WORKSHEET ON POLYNOMIAL BASICS

For each polynomial, find the degree, leading coefficient, and the constant term.

	Polynomial	Degree	Leading Coefficient	Constant Term
1	$2x^5 - 5x^2 + 4x + \frac{2}{5}$			
2	$-x + x^2 + 2x^9 - 3x^5$			
3	$-x^3 + 4 - x^2 - x^5$			
4	$(3x - 2)(x + 4)(4x - 1)$			
5	$3(4a - 7)(2a + 3)$			
6	$(4x - 1)^2$			
7	$12x - 3$			
8	$-2(5g - 2)^2(3g - 4)(3g - 1)^3$			
9	$5x(2x + 3)(3x - 4)^2$			
10	$x^5(x + 2)^4(3x - 1)^2\left(\frac{1}{2}x - 1\right)$			
11	$(x^2 + 2)(4x^2 - 1)^2(5x - 7)$			
12	$-5\left(\frac{2}{5}x^2 + 4\right)^2\left(\frac{1}{3}x - 2\right)^3$			
13	$(x^2 - 3x + 4)(2x - 5)^2(x^2 + x - 7)$			
14	$(3x^3 - 2)^3\left(\frac{4}{5}x - \frac{1}{4}\right)(x^2 + 6x + 8)^2$			