

Name:

Date:

Topic:

Class:

Main Ideas/Questions	Notes/Examples	
Monomial  Polynomial	To multiply a monomial and a polynomial, simply distribute the monomial to the polynomial. For exponents, recall the product rule.	Product Rule:
You Try! 	Example 1: $x(x + 4)$	Example 2: $5m^3(3m^2 - m - 7)$
Directions: Find each product. Final answers must be in standard form.		
	1. $k(k - 9)$	2. $9a(a + 1)$
	3. $-6p(p^4 - 8)$	4. $3c^5(-2c - 5)$
	5. $-4g^2(2g + 7)$	6. $x(x^2 - x + 3)$
	7. $-3n(n^2 - 2n + 8)$	8. $-2x^4(6x^2 - 12x + 18)$
	9. $p^2q^3(p^5q^2 - pq)$	10. $3xy(x^2 + xy + y^2)$
	11. $5r^2s^2(-2r^2 + 3rs - 4s^2)$	12. $3ab(4a^2 - 7b^3)$
	13. $-7c^3d^2(9c^2d^2 - 4cd^5)$	14. $10m^4n(-2mn^3 + 3n)$
Directions: Distribute, then simplify the remaining expression. Final answers must be in standard form.		
	15. $-2x(3x - 4) + 7x$	16. $5w(-7w + 3) - 2w(13 - 9w^2)$