

Name:

Date:

Topic:

Class:

Main Ideas/Questions	Notes/Examples		
Powers of Monomials	To raise a monomial to a power, use the POWER RULE : $(x^a)^b =$		
Examples	Directions: Simplify.		
	1. $(x^2)^5$	2. $(m^7n^4)^4$	3. $(cd^2)^3$
	<p>➤ Examples with Coefficients:</p> <ul style="list-style-type: none"> • Raise the coefficient to the given power. • SIMPLIFY the variables with the power rule. 		
	4. $(5x^7)^2$	5. $(2x^2y)^5$	6. $(-2p^4q^6)^2$
	7. $(-4c^3d^4)^4$	8. $(-3x^2)^3$	9. $\left(\frac{1}{2}a^3b^4c^5\right)^3$
Mixed Practice	Directions: Simplify each expression completely.		
	10. $(x^3y^3)^3$	11. $(-a^2b)^4$	
	12. $(-2ab^2)^2$	13. $\left(\frac{1}{3}abc\right)^2$	
	14. $(2a^2)^3$	15. $(3x^3y)^4$	