Name:	Date:
Topic:	Class:

Торіс:		Class:	
Main Ideas/Questions	Notes/Examples		
What is a	A logarithm (log) is another way of writing exponents.		
LOGARITHM?	Logarithmic Form	Exponential Form	
	$\log_b a = x$		
	Read as "log bas	se b of a equals x ."	
Converting	Directions: Write each equation in exponential form.		
LOG S EXP	1. log ₃ 9 = 2	2. log ₆ 216 = 3	
	3. log ₇ 1 = 0	4. log ₂ 16 = 4	
	_ , 1 _	3	
	5. $\log_4 \frac{1}{16} = -2$	6. $\log_9 27 = \frac{3}{2}$	
Converting	Directions: Write each equation in logarithmic form .		
EXP D LOG	7. $14^2 = 196$	8. 3 ⁴ = 81	
	9. 12 ¹ = 12	10. $36^{\frac{1}{2}} = 6$	
		201 30 = 0	
	11 2-3 1	4	
	11. $2^{-3} = \frac{1}{8}$	12. $8^{\overline{3}} = 16$	