Algebra 2

6-03 Rewrite Exponential as Logarithmic Functions (6.3)

Logarithms	
•	Logarithms are
•	$\log_b a = $ of <i>b</i> to get <i>a</i>
10g ₃ 81	log ₃ 3
Calculator has two logs	
•	Log: $\log = \log_{10}$
•	Log: $\ln = \log_e$
•	(Some calculators can do log of any base.)
log 6	$\ln \frac{1}{3}$
Definition of Lagorithm with Pace b	
Definition of Logarithm with Dase D	
	$\log_b y = x \iff b^x = y$
•	Read as "log base b of y equals x"
•	Logs and exponentials are
•	They each other
•	They each other out
Rewrite as an exponential: $\log_3 9 = 2$	
Rewrite	e as a log: $6^2 = 36$
Simp	lify log expressions
Trexpo	hential with base b and log with base b are inside each other, they
/ 1067 %	$\log_3 3^{-1}$

312#1, 3, 5, 7, 9, 11, 13, 15, 17, 23, 25, 31, 33, 35, 37, 75, 77, 79, 83, 85 = 20