## Algebra 2

## 6-06 Solve Exponential and Logarithmic Equations (6.6)

## Solving Exponential Equations Method 1) if the \_\_\_\_\_\_ are equal, then \_\_\_\_\_\_ are equal 5<sup>x-3</sup> = 25<sup>x-5</sup> 2<sup>3x+5</sup> = 2<sup>1-x</sup> Solving Exponential Equations (method 2) take \_\_\_\_\_\_ of both sides 5(7)<sup>5x</sup> = 60 3e<sup>4x</sup> + 9 = 15

Solving Logarithmic Equati			
	are equal, then		
$n(4x - 12) = \ln x$	log <sub>2</sub> (	$3x - 4) = \log_2 5$	
Method 2)	both sides		
	ponents with the base of the log		
$\operatorname{og}_2(4x+8) = 5$		2x+1)=2	
	10g <sub>3</sub> (		
	log <sub>3</sub> (		
	log₃(		
	10g <sub>3</sub> (		
	log <sub>3</sub> (		