Precalculus

3-04 Solving Exponential and Logarithmic Equations

Colum Francisci Franciscum		
Solve Exponential Equations		
Shortcut Method		
1-to-1 method (rewrite with the same base)		
$\left(\frac{1}{r}\right)^{x} = 125$		
General Method		
of both sides		
$5 - 3e^x = 2$	$6(2^{t+5}) + 4 = 11$	
$e^{2x} - 7e^x + 12 = 0$		
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Shortcut Method		
1-to-1 Property		

 $\ln x - \ln 3 = 0$

Precalculus 3-04	Name:
General Method	
both sides	
$6 + 3\ln x = 4 \qquad \qquad \log_4 x + \log_4(x)$	(x-9) = 1
Graphical method	
If the other methods don't apply	
• Make	
• Find the	
Solve $\log_2 x = \ln 2x$	
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