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NAME		/	DATE
Module 1 Lesson 4	Getting Ready for Alge Simplifying Expression Exponents and Roots		guided notes
Lesson	Objectives		
• Simplify and b is	y expressions of the form <i>b</i> ^{<i>n</i>} , s a rational number. y square roots and cube roots		
An exponent	ial expression takes the fo	rm b^n .	
The expressio	on b^2 can be read as		or
The expressio	on b^3 can be read as		or
In this expres	sion, b is the	 and <i>n</i> is the	
To simplify b'	¹ , use	as a factor	times.
The	form of 3 ⁴ is 3	$3 \cdot 3 \cdot 3 \cdot 3$.	
For any real r	number b , except $b = 0$, b^0) =	
Simplify:	. 4 ²	2 Simplify: 8 ⁰	
3 Simplify:	31	$4 \text{Simplify: } \left(\frac{1}{4}\right)$	3
(noootivo)even	=		
-	=		
5 Determir	ne the sign of $(-1)^{14}$, then sim	nplify.	
• The si • $(-1)^{14}$	ign will be		
• $(-1)^{14}$	=		

 $-\phi$

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6 Determine the sign of $\left(-\frac{1}{3}\right)^3$, then simplify.				
• The sign will be				
• $\left(-\frac{1}{3}\right)^3 = $				
The $\sqrt{}$ symbol is called a sign.				
The $\sqrt{}$ symbol indicates the principle, or nonnegative, square root.				
The symbol $\sqrt[3]{}$ indicates the root.				
Simplify: $\sqrt{100} =$ Simplify: $\sqrt[3]{27} =$				
Simplify: $\sqrt[3]{-216} =$				

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Guided Notes