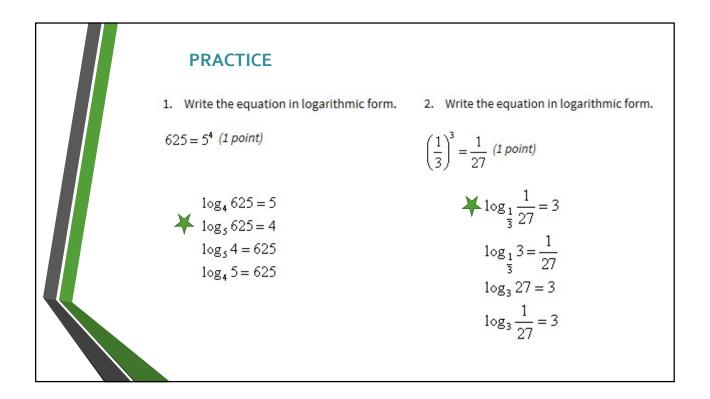
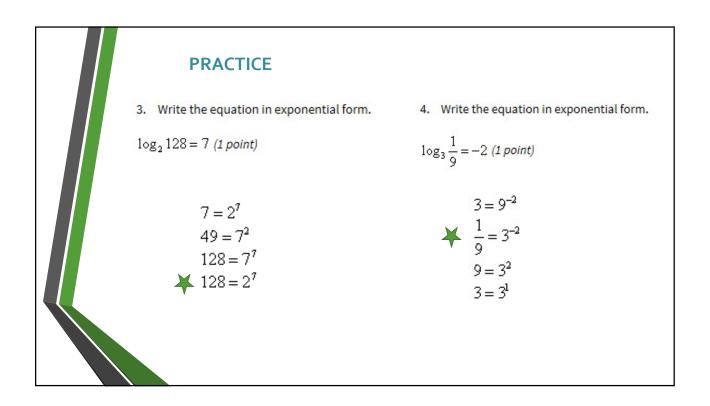
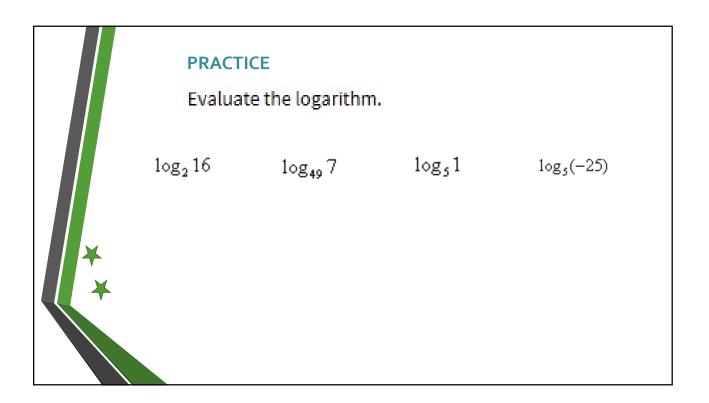


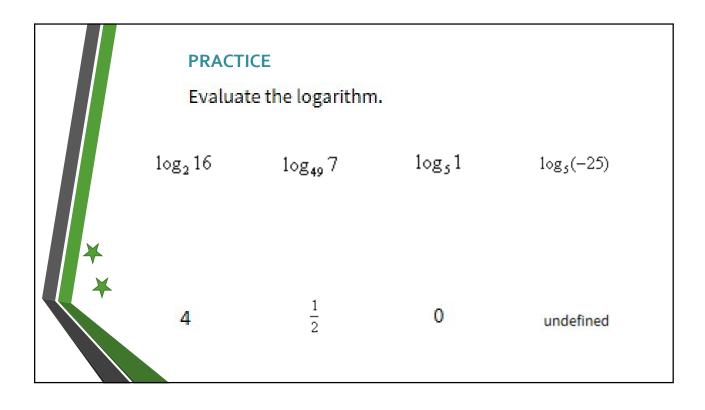
PRACTICE	
1. Write the equation in logarithmic form.	2. Write the equation in logarithmic form.
$625 = 5^4$ (1 point) $\log_4 625 = 5$ $\log_5 625 = 4$ $\log_5 4 = 625$ $\log_4 5 = 625$	$\left(\frac{1}{3}\right)^{3} = \frac{1}{27} (1 \text{ point})$ $\log_{\frac{1}{3}} \frac{1}{27} = 3$ $\log_{\frac{1}{3}} 3 = \frac{1}{27}$ $\log_{3} 27 = 3$ $\log_{3} \frac{1}{27} = 3$

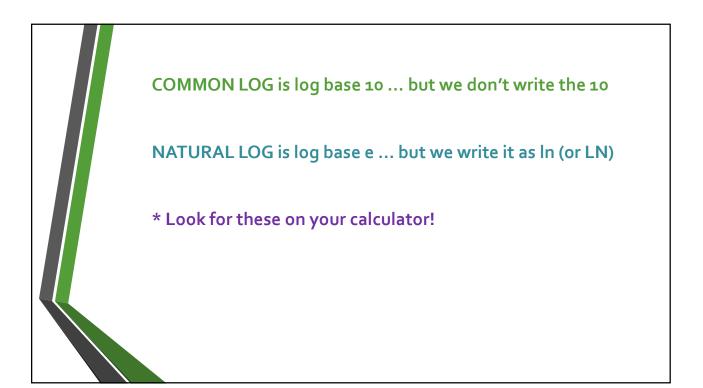


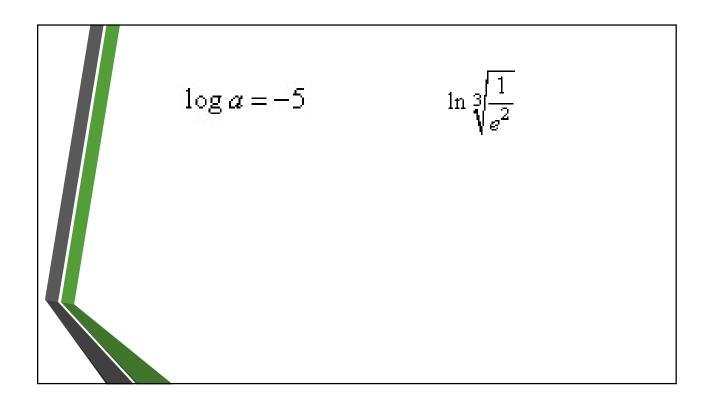
PRACTICE	
3. Write the equation in exponential form. $\log_2 128 = 7$ (1 point)	4. Write the equation in exponential form. $\log_3 \frac{1}{9} = -2$ (1 point)
$7 = 2^7$ $49 = 7^2$ $128 = 7^7$ $128 = 2^7$	$3 = 9^{-2}$ $\frac{1}{9} = 3^{-2}$ $9 = 3^{2}$ $3 = 3^{1}$

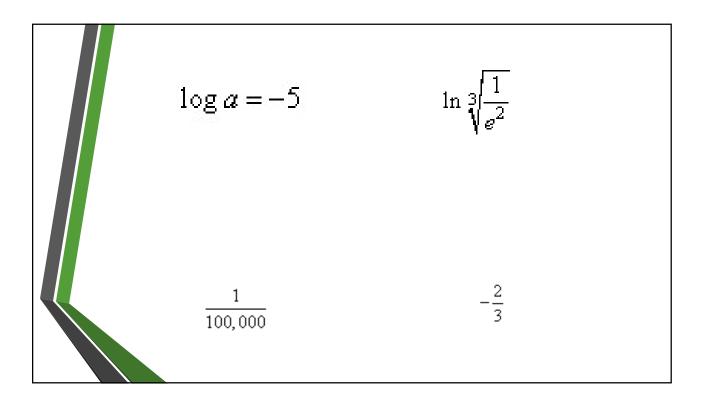


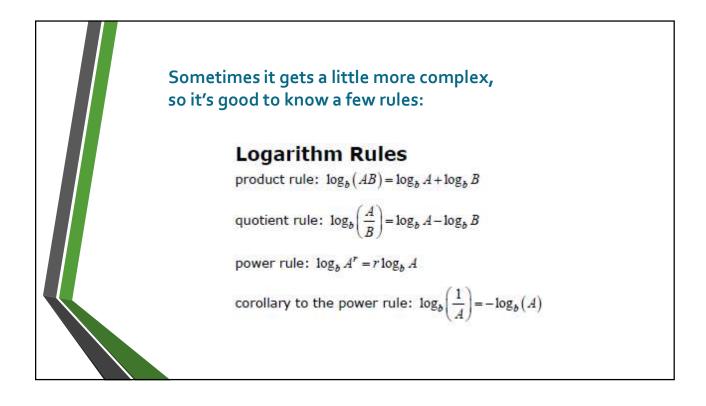












These should remind you of the rules for exponents: $a^{0} = 1$ $(ab)^{n} = a^{n}b^{n}$ $\frac{a^{m}}{a^{n}} = a^{m-n}$ $a^{m} \cdot a^{n} = a^{m+n}$ $a^{-n} = \frac{1}{a^{n}}$ $(a^{m})^{n} = a^{mn}$ $\left(\frac{a}{b}\right)^{n} = \frac{a^{n}}{b^{n}}$

