

Use the definition of a logarithm to complete the table.

Exponential Form	Logarithmic Form
$2.4^0 = 1$	
$4^{1.5} = 8$	
$10^{-5} = 0.00001$	
	$\log_4 0.0625 = -2$
	$\log_x 8 = 3$
$5^{-2} = \frac{1}{25}$	
	$\log_{\pi} \pi = 1$
	$\log 100 = 2$

Evaluate each expression.

1. $\log 1000$

2. $\log 10^4$

3. $\log 1$

4. $\log \frac{1}{10,000}$

5. $\log 10^{-3}$

6. $\log 10$

7. $\log 0.01$

8. $\log \frac{1}{1000}$