

# Evaluating Logarithms Using Power Rule

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Evaluate each expression.

1)  $\log_{\frac{1}{3}}\left(\frac{1}{243}\right)$

2)  $\log_{\frac{1}{4}}\left(\frac{1}{16}\right)$

3)  $-9 \log_8 2$

4)

# Preview

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10)  $\log_{25} 5^{-4}$

11)  $\log_{\frac{1}{5}}\left(\frac{1}{25}\right)$

12)  $\log_{81} 9^{-1}$