Evaluating Logarithms Using Power Rule

Evaluate each expression.

1) $\log_{\frac{1}{2}} \left(\frac{1}{16}\right)^{-6}$

2) $\log_{81} 3^{-2}$

3) $\log_{\frac{1}{6}} 36^{-4}$

4)

7)

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10) $\log_{\frac{1}{4}} 16^{-3}$

11) $7 \log_{\frac{1}{64}} \left(\frac{1}{2}\right)$

12) $\log_{25} 5^{3}$