## **Evaluating Logarithmic Expressions**

Evaluate each expression.

1) 
$$\log_{\frac{1}{64}} 4^9 + \log_2 4$$

2) 
$$\log_{\frac{1}{3}} \left( \frac{1}{27} \right) \cdot 6 \log_4 2$$

3)

## Preview

5)

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7)

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9)  $\frac{8 \log_{256} 2}{3 \log_3 9}$ 

10) 
$$\log_{\frac{1}{5}} \left( \frac{1}{25} \right) - 5 \log_{81} 3$$