## **Evaluating Logarithmic Expressions**

Evaluate each expression.

1) 
$$\log_{\frac{1}{4}} \left( \frac{1}{64} \right) \cdot 9 \log_{49} 7$$

2) 
$$\log_{\frac{1}{36}} 6^3 + \log_2 128$$

3)

## Preview

5)

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7)

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9) 
$$\log_{\frac{1}{6}} \left( \frac{1}{36} \right) - 5 \log_4 16$$

10)  $\frac{2 \log_{27} 3}{9 \log_{64} 4}$