## **Evaluating Logarithmic Expressions**

Evaluate each expression.

1) 
$$\log_{\frac{1}{2}} \left( \frac{1}{32} \right) - 4 \log_{64} 8$$

$$2) \quad \frac{6 \log_{125} 5}{4 \log_7 49}$$

3)

## Preview

5)

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7)

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9)  $\log_{\frac{1}{9}}\left(\frac{1}{81}\right) \cdot 3 \log_8 2$ 

10) 
$$\log_{\frac{1}{32}} 2^5 + \log_3 243$$