

# Evaluating Logarithmic Expressions

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Evaluate each expression.

1)  $\log_{\frac{1}{3}} 81 + 3 \log_6 216$

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2)  $\log_{12} 144 \cdot 3 \log_9 81$

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3)

# Preview

5)

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7)

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9)  $\log_{\frac{1}{9}} \left( \frac{1}{81} \right) \cdot \log_{11} 121$

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10)  $\frac{2 \log_4 2}{7 \log_9 3}$

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