

Evaluating Expressions

L1ES2

Example :

Evaluate the expression : $\log_2 64$

$$\begin{aligned}\log_2 64 &= \log_2 2^6 \\ &= 6 \log_2 2 \\ &= 6 (1) \\ &= \mathbf{6}\end{aligned}$$

$$\log_a b^c = c \log_a b$$

$$\log_a a = 1$$

Evaluate each expression.

1) $\log_3 81$

Answer

2) $\log_6 \left(\frac{1}{216}\right)$

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3) $\log_{11} 121$

Answer

5) $-2 \log_5 25$

Answer

7) $5 \log_3 3$

Answer

Answer

9) $3 \log_8 2$

Answer

10) $-3 \log_3 9$

Answer

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Answer

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Answer

-6**PREVIEW**

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