

1.2 Properties of Logarithmic Functions

1. Use your knowledge of logarithmic properties to write each expression in terms of $\log_4 x$.

$$\log_4 \left(\frac{x^2 y^3}{z^4} \right)$$

$$\log_4 \left(\frac{x^2 y^3}{z^4} \right) = \log_4 x^2 + \log_4 y^3 - \log_4 z^4$$

2. Use your knowledge of logarithmic properties to simplify the following logarithmic expression, using the appropriate laws of logarithms and algebraic laws.

$$\frac{1}{2}(\log_4 x + \log_4 x) - 3 \log_4 x$$

$$\frac{1}{2}(\log_4 x + \log_4 x) - 3 \log_4 x$$

3. Use algebraic and natural logarithmic properties to simplify the following logarithmic expression.

$$\log_{10} 43$$

$$\frac{\log 43}{\log 10}$$

Math 30 1 Logarithms Expand Condense Worksheet

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