

Algebra /

Expanding a logarithmic expression: Problem type 2

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Use the properties of logarithms to expand the following expression.

$$\log\left(\frac{z^3}{\sqrt{x^5 y}}\right)$$

Each logarithm should involve only one variable and should not have any radicals or exponents.

You may assume that all variables are positive.

$\log\left(\frac{z^3}{\sqrt{x^5 y}}\right) = \square$

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$$\log\left(\frac{z^3}{(x^5 y)^{\frac{1}{2}}}\right) = 3\log z - \frac{1}{2}(5\log x + \log y)$$

Note: The Solve feature is not available to students.

[#ExponentialAndLogarithmicFunctions](#)

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