Advanced Math

Laws of Logarithms

The answer to a logarithm is ______

Laws of Exponents

1)
$$x^m x^n = \mathbf{x}^m$$

2)
$$\frac{x^m}{x^n} = x^m$$

$$3) (x^m)^n = \mathbf{x}^n$$

2)
$$\frac{x^m}{x^n} = \mathbf{x}^{m-n}$$
 2) $\log_b n - \log_b n$ 3) $(x^m)^n = \mathbf{x}^{mn}$ 3) $\log_b n^n = n \log_b n$

Evaluate the logarithm. Round to three decimal places.

Use laws of logarithms to write the expression as a sum, difference, and/or constant multiple of logarithms.



Express as a logarithm of a single number or expression.

Find the exact value of the logarithm if possible without a calculator.

75)
$$\log_5 75 - \log_5 3$$

Assignment:

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12-38 even,

42-60 even,

70-82 even.