Advanced Math

3-3

Laws of Logarithms

The answer to a logarithm is _____.

Laws of Exponents	Laws of Logarithms -
1) $x^m x^n =$	1)
2) $\frac{x^m}{x^n} =$	2)
3) $(x^m)^n =$	3)

Evaluate the logarithm. Round to three decimal places.

11) $\log_3 7$

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

31) $\ln z(z - 1)^2, z > 1$

Express as a logarithm of a single number or expression.

49) $\ln x - 3\ln(x + 1)$

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

75) $\log_5 75 - \log_5 3$

Assignment:
pg 325
12-38 even,
42-60 even,
70-82 even.