

Business PreCalculus MATH 1643 Section 004, Spring 2014
Homework 26

1- Write each expression in condensed form:

a. $2 \log x + \frac{1}{2} \log(x^2 - 1) - \frac{1}{2} \log(x^2 + 1)$.

b. $2 \ln x - 3 \ln(y - 1) + \frac{1}{3} \ln z$.

2- Write each expression in expanded form:

a. $\ln \frac{x\sqrt{x^3+1}}{(x^2+5)^2}$.

b. $\log_3 \frac{x}{x+3}$.

3- Solve the following:

a. $\log_4 x + \log_4(x - 6) = 2$.

b. $e^x = 12$.