

Classwork 11

College Algebra and Trigonometry, MTH 123, Section 3260, Fall 2011

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Name: _____

1. Evaluate the expression using Laws of Logarithms.

1. $\log_2 6 - \log_3 15 + \log_2 20$

2. $\log_4 16^{100} + \log_4 64$

3. $\ln(\ln e^{e^2})$

2. Use Laws of Logarithms to expand or combine the expressions.

1. (Expand) $\log_3 x\sqrt{y}z^2$

2. (Combine) $\ln(a+b) + \ln(a-b) - \ln c$

3. (Expand) $\log \frac{x^2 y^3}{z^5 w^4}$