Math 32 Quiz

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Thursday, October 16, 2008

Name: _____ Score: _____ /10

You have twenty minutes to complete this quiz. You may not use calculators or notes, but the chalkboards are yours.

1. (2 pts) Simplify the expression:

$$\left(2^{3+\sqrt{3}}2^{3-\sqrt{3}}\right)^{1/2}$$

2. (3 pts) Simplify the expression:

$$\ln e + \ln \sqrt{e} + \ln 1 + \ln(e^{\ln 10})$$

3. (2 pts) Which is larger, $\log_3 30$ or $\log_5 120$? Why?

4. (3 pts) Graph the function $y = \log_2(4-x)$. Be sure to find the values of all horizontal and vertical intercepts and asymptotes.