

# Math 1010 - Quiz 11

University of Utah

Fall 2009

Name: \_\_\_\_\_

*NOTE:* There are three pages of questions, so be sure to answer the question on the back of the exam.

1. Find the inverse of the function: (4 points)

$$f(x) = 4x - 7.$$

2. Calculate the following:

- (a)  $\log_3(9)$ ; (2 points)

(b)  $\log_5 \left( \frac{1}{25} \right)$ ; (2 points)

(c)  $\log_8(32)$  (3 points)

3. You invest \$100 in the bank, and your account generates 4% interest, compounded annually. How many years will it take for your investment to double? Give your answer just in terms of logarithms, you don't need a decimal value. (4 points)

4. What suggestions would you have for improving this class?<sup>1</sup> (5 points extra credit)

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<sup>1</sup>Yes, I know this won't be anonymous, but I promise I have a thick skin and a broad back, and it takes a lot to make me cry. More important, I don't hold grudges, especially when it comes to calculating final grades. So, please, just be candid.