MAT 136 (Calculus I), Prof. Jim Swift
Quiz 1, Linear and Exponential Functions

Name: _____

The 2 problems have equal weight.

You may use your notes, and work with other people, but you may not use a calculator, etc.

The quiz is worth 5 class points. Missing the quiz gets 0 points, and taking the quiz in class (or with a make-up for an excused absence) gets at least 1 point.

1. A linear function f satisfies $f(5) = 4$ and $f(6) = 7$. Fill in the blanks with numbers.

(a) Write a formula for $f(x)$ using the point-slope form: $f(x) = \_\_(x - 5) + \_\_$

(b) Write the formula for $f(x)$ using the slope-intercept form: $f(x) = \_\_\, x + \_\_\_$.

2. An exponential function g satisfies $g(0) = 3$ and $g(1) = 6$. Find a formula for $g(x)$ in the form $g(x) = a \cdot b^x$.

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