

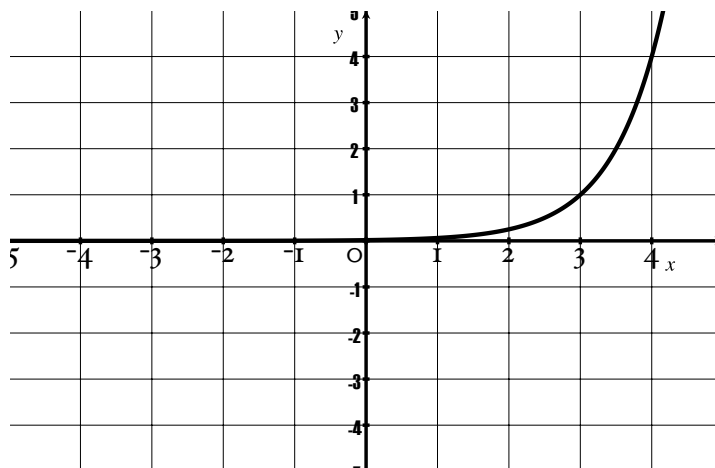
Quiz 4

Show *all* your work. No credit is given without reasonable supporting work. There are *two* sides to this quiz.

1. Let $g(x)$ be the function graphed to the right.

(a) [1] Find the range of g .

- (b) [3] (Exp Wks #3) Given that $g(x)$ is an exponential function of the form $y = b^x$ that has been horizontally shifted and graphed to the right. Find the equation.



2. [2] (§3.2 #48) Find x given $\log_8 \sqrt[3]{2-x} = \frac{1}{3}$

3. Consider \$1,400 invested in an account with continuous compounding and a promised annual rate of return of .03%.

(a) [2] (Log Wks #1) Find a function that returns the total money in the account after t years.

(b) [2] (WebHW19 #15) How long does it take for the money to reach \$3,000?