## Quiz 4

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

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

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

(0,0) M-rayme (3)

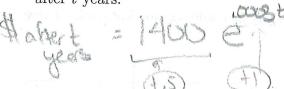
(b) [3] (Exp Wks #3) Given that g(x) is an exponential function of the form  $y = b^x$ that has been horizontally shifted and graphed to the right. Find the equation.

May (3,1)

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

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- 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?