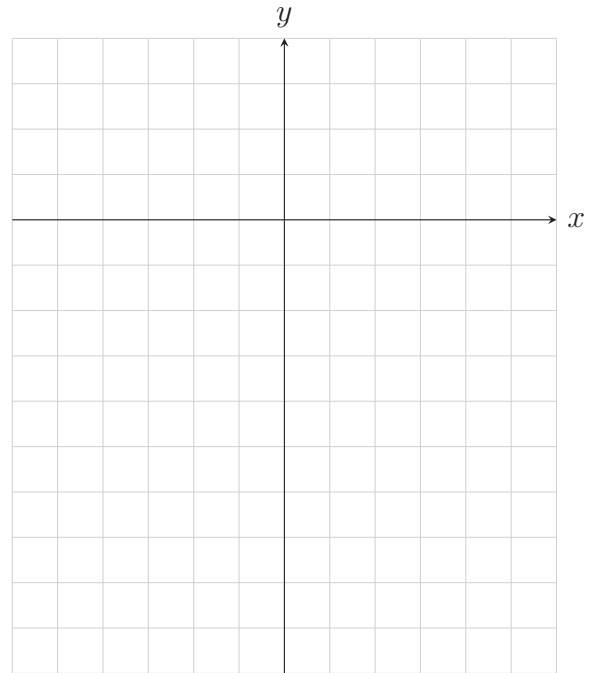


Math 111 Quiz 5 -  $e^x$  and logarithm introduction TUTORS OKAY!

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

1. Graph  $g(x) = -\frac{1}{3}e^{2(x-1)} + 3$  using transformations of  $y = e^x$ .



2. Solve the following exponential equations.

a.  $5^{2x-1} = 125^{x+2}$

b.  $\left(\frac{1}{27}\right)^{x+2} = 9^{-2x-3}$

3. Solve the following equations.

a.  $\log_5(2x - 5) = 3$

b.  $6 \cdot 3^{x+4} = 4$

4. Graph  $g(x) = 2 \log_2(x - 3) + 1$  using transformations of  $y = \log_2(x)$ .

