

Name: _____

Date: _____

Learning Goal 7.1

Applying one or more transformations to exponential and logarithmic functions, including translations, stretches and reflections.

More Questions

1. Express each expression in logarithmic form.

a. $x = 3^5$

b. $9^n = c$

c. $3^{-4} = \frac{1}{81}$

2. Express each expression in exponential form.

a. $\log 10000 = 4$

b. $\log_3 \left(\frac{1}{27} \right) = -2$

c. $\ln 1 = 0$

3. Evaluate each logarithm without using a calculator.

a. $\log_3 27$

b. $\log_4 \left(\frac{1}{64} \right)$

c. $\log 0.001$

d. $\log_2 128$

e. $\log_5 125$

f. $\log 100$

4. Evaluate 4^m if $m = \log 0.01$.

5. Evaluate n^3 if $5 = \log_n 243$