Remote Assessment 8.2
15 questions

Be sure you follow directions

WRITE IN LOGARITHMIC FORM

1. $2^x = 256$ ***1.***_____

2. $e^m = x$ ***2.*** _____

WRITE IN EXPONENTIAL FORM

3. $\log_4 32 = 2.5$ ***3.***_____

4. $\ln 47 = x$ ***4.*** _____

EVALUATE (YOU MUST SHOW WORK)

5. $\log_2 16$ ***5.***_____

6. $\log 0.01$ ***6.*** _____

7. $\ln e^{27}$ ***7.***_____

8. $12^{\log_{12} 5}$ ***8.*** _____

USE PROPERTIES TO WRITE THE EXPRESSION AS A SINGLE LOGARITHM

9. $2\log_6 4 + \frac{1}{4}\log_6 16 - \log_6 x$ ***9.***_____

10. $\log_4 (x - 3) + \log_4 (x + 3)$ ***10.***_____

DESCRIBE HOW THE GRAPH WAS TRANSFORMED FROM $f(x) = \ln x$

11. $g(x) = \ln(2x - 9)$ ***11.***_____

12. $h(x) = \ln (x + 2)^3$ ***12.***_____

13. $k(x) = \log_5 x$ ***13.***_____

DRAW A GRAPH (MUST HAVE 3 ANCHORS). YOU SHOULD BE ABLE TO DO THIS WITHOUT A CALCULATOR

14. $\boldsymbol{f(x) = 2logx - 1}$
15. $\mathbf{g(x) = \log_3(-x - 4)}$