

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponential Equation Solving with Logarithms

Solve each equation. Round answers to the nearest ten-thousandth.

1) $3e^{-2m+4} - 1 = 15$

8) $15^{q+9} + 8 = 22$

2) $12^p = 16$

9) $e^{d-4} + 8 = 23$

3) $5 \cdot 6^{-3m} = 17$

10) $4^b = 24$

4) $8^{x+10} - 10 = 18$

11) $4^{-4y-8} - 1 = 25$

5) $2 \cdot 3^{-3p} = 19$

12) $16^{p+1} + 8 = 26$

6) $15^d = 20$

13) $e^{d+6} - 4 = 27$

7) $9^{2g+5} - 3 = 21$

14) $4e^{-4d-3} + 6 = 28$

