

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

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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

