

## Practice solve log, base, ln, e equations

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation. Round to the tenth, if rounding is required.**

1)  $\log 8 = \log 2a$

2)  $\log_5 (x - 9) - 8 = -5$

3)  $6 - 8 \log_{12} m = 6$

4)  $\log_9 (8n - 8) = -1$

5)  $6^{-2n} = 6^{-n}$

6)  $64^{n+2} = 4^2$

7)  $4^m \cdot \left(\frac{1}{2}\right)^{3m} = 32$

8)  $18^v = 59$

$$9) \ln(-2n + 8) = \ln(-5n - 1)$$

$$10) \ln 4b + 5 = 7$$

$$11) 6 - 4 \ln n = 14$$

$$12) \ln(p + 1) = -1$$

$$13) e^{-x} = 1/2$$

$$14) e^{5x+3} = 10$$

$$15) 6e^x = 1$$

$$16) e^x - 5 = 3$$