

## The Natural Logarithm

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

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

1)  $-7e^b + 8.2 = -47$

2)  $-5e^v + 3.9 = -3$

3)  $9e^x + 6 = 61.3$

4)  $-10e^n - 9 = -11$

5)  $-8e^{n-3} + 9 = -60.3$

6)  $-5e^{-x} + 7 = -44.1$

7)  $4 + \ln n = 6$

8)  $-8 - 6 \ln n = -20$

9)  $-5 \ln x - 5 = -25$

10)  $8 \ln n - 5 = 19$

11)  $-10 \ln (p - 6) - 7 = -7$

12)  $6 \ln (n + 10) - 1 = -1$