

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

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

**Natural Logarithms****Solve.**

1)  $\ln x = \frac{1}{2}$

2)  $x = e^{\frac{1}{2}}$

3)  $\ln(\ln x) = 5$

4)  $e^x = 9$

5)  $e^x = 3$

6)  $\ln x = \ln 4 + \ln 7$

7)  $\ln(6x - 1) = 1$

8)  $\ln(2x + 5) = 4$

**Evaluate without using a calculator.**

9)  $e^{3 \ln 2}$

10)  $\ln\left(\frac{1}{e}\right)$



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for more  
**PRACTICE**

1)  $\ln x = \frac{1}{2}$

$\ln(e^{3-x}) = 8$

2)  $x = e^{\frac{1}{2}}$

$x = -5$

3)  $\ln(\ln x) = 5$

$x = e^{e^5}$

4)  $e^x = 9$

$x = \ln 9$

5)  $e^x = 3$

$x = \ln 3$

6)  $\ln x = \ln 4 + \ln 7$

$x = 28$

7)  $\ln(6x - 1) = 1$

$x = \frac{(e+1)}{6}$

8)  $\ln(2x + 5) = 4$

$x = \frac{e^2 - 5}{2}$

9)  $e^{3\ln 2}$

$8$

10)  $\ln\left(\frac{1}{e}\right)$

$-1$