Solving Natural Logarithms Practice Problems © 2016 Kuta Software LLC. All rights reserved.

Solve each equation.

1)
$$\ln 2x + \ln 8 = 1$$

2)
$$\ln 2 - \ln (x+3) = 4$$

3)
$$\ln(x+4) - \ln 9 = 5$$

4)
$$\ln 10 - \ln (x - 9) = 4$$

5)
$$\ln(x+5) + \ln 6 = \ln 15$$

6)
$$\ln(x+9) - \ln 10 = 5$$

7)
$$\ln 5 - \ln (x - 10) = \ln 19$$

8)
$$\ln 4 - \ln (x - 7) = 2$$

9)
$$\ln 9 - \ln 3x = 5$$

10)
$$\ln(x+9) - \ln 3 = 3$$

Answers to Solving Natural Logarithms Practice Problems

1)
$$\left\{\frac{e}{16}\right\}$$

5)
$$\left\{-\frac{5}{2}\right\}$$
9) $\left\{\frac{3}{e^5}\right\}$

9)
$$\left\{\frac{3}{e^5}\right\}$$

2)
$$\left\{ \frac{2 - 3e^4}{e^4} \right\}$$

6) $\left\{ 10e^5 - 9 \right\}$

6)
$$\{10e^5 - 9\}$$

10)
$$\{3e^3-9\}$$

3)
$$\{9e^5-4\}$$

3)
$$\{9e^5 - 4\}$$
7) $\left\{\frac{195}{19}\right\}$

4)
$$\left\{ \frac{10 + 9e^4}{e^4} \right\}$$

8) $\left\{ \frac{4 + 7e^2}{e^2} \right\}$

$$8) \left\{ \frac{4+7e^2}{e^2} \right\}$$