

Natural Logarithms Practice

Problem 1 – 8. Write each expression as a single natural logarithm.

1. $\ln 8 - 3 \ln 2$

$$\ln \left(\frac{8}{2^3} \right) = \ln 1$$

2. $\ln x - \ln y^2$

$$\ln \left(\frac{x}{y^2} \right)$$

3. $\ln 9 + \ln 5$

$$\ln 45$$

4. $\ln 2 - \ln 2^5$

$$\ln \left(\frac{2}{2^5} \right) = \ln 2^{-4} = -4 \ln 2$$

5. $\ln \sqrt{2x+4} - \ln x^3$

$$\ln \left(\frac{\sqrt{2x+4}}{x^3} \right)$$

6. $\ln 5 - \ln x^2 + \ln 6$

$$\ln \left(\frac{30}{x^2} \right)$$

7. $\ln \frac{25}{2} - \ln 2$

$$\ln 25 = \ln 5^2 = 2 \ln 5$$

8. $\frac{1}{2} \left[\ln \left(\frac{25}{2} \right) \right] + \frac{1}{2} \ln \frac{25}{10}$

$$= \ln \sqrt{\frac{25}{2} \cdot \frac{25}{10}} = \ln \sqrt{\frac{625}{20}} = \ln \frac{25}{2\sqrt{2}}$$

Problem 9 – 14. Write each expression. Round answers to the nearest hundredth.

9. $\ln 2 - \ln 3$

$$\ln 2 = 0.6931$$

$$\ln 3 = 1.0986$$

$$\ln 2 - \ln 3 = -0.4055$$

10. $\ln (3x-2) = 4.5$

$$3x-2 = e^{4.5}$$

$$3x = 55.67$$

Practice 8 6 Natural Logarithms

David S. Kahn



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