Exercises

6.2.1

In Exercises 1 - 15, expand the given logarithm and simplify. Assume when necessary that all quantities represent positive real numbers.

1. 
$$\ln(x^3y^2)$$

2. 
$$\log_2\left(\frac{128}{x^2+4}\right)$$

3. 
$$\log_5 \left(\frac{z}{25}\right)^3$$

4. 
$$\log(1.23 \times 10^{37})$$

5. 
$$\ln\left(\frac{\sqrt{z}}{xy}\right)$$

6. 
$$\log_5(x^2-25)$$

9.  $\log (1000x^3y^5)$ 

7. 
$$\log_{\sqrt{2}} (4x^3)$$
  
10.  $\log_3 \left(\frac{x^2}{81v^4}\right)$ 

11. 
$$\ln \left( \sqrt[4]{\frac{xy}{ez}} \right)$$

8.  $\log_1(9x(y^3-8))$ 

12. 
$$\log_6 \left(\frac{216}{x^3y}\right)^4$$

13. 
$$\log \left( \frac{100x\sqrt{y}}{\sqrt[3]{10}} \right)$$

14. 
$$\log_{\frac{1}{2}} \left( \frac{4\sqrt[3]{x^2}}{y\sqrt{z}} \right)$$

15. 
$$\ln\left(\frac{\sqrt[3]{x}}{10\sqrt{yz}}\right)$$

In Exercises 16 - 29, use the properties of logarithms to write the expression as a single logarithm.

16. 
$$4\ln(x) + 2\ln(y)$$

17. 
$$\log_2(x) + \log_2(y) - \log_2(z)$$

19. 
$$\frac{1}{2}\log_3(x) - 2\log_3(y) - \log_3(z)$$

18. 
$$\log_3(x) - 2\log_3(y)$$

20. 
$$2\ln(x) - 3\ln(y) - 4\ln(z)$$

21. 
$$\log(x) - \frac{1}{3}\log(z) + \frac{1}{2}\log(y)$$

20. 
$$2\ln(x) - 3\ln(y) - 4\ln(z)$$

$$z = -\frac{1}{3}\ln(y) + \frac{1}{3}\ln(z)$$

23. 
$$\log_5(x) - 3$$

22. 
$$-\frac{1}{3}\ln(x) - \frac{1}{3}\ln(y) + \frac{1}{3}\ln(z)$$

25 
$$\log_{-}(x) + \log_{-}(x-3) = 2$$

24. 
$$3 - \log(x)$$

25. 
$$\log_7(x) + \log_7(x-3) - 2$$

26. 
$$\ln(x) + \frac{1}{2}$$

27. 
$$\log_2(x) + \log_4(x)$$

28. 
$$\log_2(x) + \log_4(x-1)$$
 29.  $\log_2(x) + \log_{\frac{1}{2}}(x-1)$ 

# **Properties Of Logarithms Kuta**

Marcel A. Müller

## **Properties Of Logarithms Kuta:**

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Tourism and Mobilities Peter M. Burns, Marina Novelli, 2008 Bringing together theoretical and practical issues this edited volume analyses tourism s wider role as an agent for the mobile modern population of the world Offering a thought provoking examination of modern tourism themes range from post modern youth and independent mobility to theoretical texts on hypermobility and citizenship within global space and mobility media and citizenship Cumulated Index Medicus, 1996 Handbook of Experimental Pharmacology, 1973 Bibliographic Survey of Corrosion National Association of Corrosion Engineers, 1965 A compilation of corrosion abstracts Soviet Electrochemistry, 1988 Plastics, 1967 Journal of the Chemical Society, 1988-05 Journal of Engineering for Gas Turbines and Power

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