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

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**M** Lipman

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