

## 6.2.1 EXERCISES

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

7.  $\log_{\sqrt{2}}(4x^3)$

8.  $\log_{\frac{1}{3}}(9x(y^3 - 8))$

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

10.  $\log_3\left(\frac{x^2}{81y^4}\right)$

11.  $\ln\left(\sqrt[3]{\frac{xy}{cz}}\right)$

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

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

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

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

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

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

23.  $\log_5(x) - 3$

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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