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

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

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

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

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

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

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

24. $3 - \log(x)$

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

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

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

$$21 \quad \log(\pi) = \frac{1}{2} \log(\pi) + \frac{1}{2} \log(\pi)$$

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

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

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

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

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

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

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

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

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

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

28.
$$\log_2(x) + \log_4(x-1)$$

$$(x-3)-2$$

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

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Wenbin Ji

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