

3-3 Study Guide and Intervention

Properties of Logarithms

Properties of Logarithms Since logarithms and exponents have an inverse relationship, they have certain properties that can be used to make them easier to simplify and solve.

If b , x , and y are positive real numbers, $b \neq 1$, and p is a real number, then the following statements are true.

- $\log_b xy = \log_b x + \log_b y$ Product Property
- $\log_b \frac{x}{y} = \log_b x - \log_b y$ Quotient Property
- $\log_b x^p = p \log_b x$ Power Property

Example 1: Evaluate $3 \log_2 8 + 5 \log_2 \frac{1}{2}$.

$$\begin{aligned} 3 \log_2 8 + 5 \log_2 \frac{1}{2} &= 3 \log_2 2^3 + 5 \log_2 2^{-1} \\ &= 3(3 \log_2 2) + 5(-\log_2 2) \\ &= 3(3)(1) + 5(-1)(1) \\ &= 4 \end{aligned}$$

$$8 = 2^3 ; 2^{-1} = \frac{1}{2}$$

Power Property

$$\log_2 x = 1$$

Simplify.

Example 2: Expand $\ln \frac{8x^5}{3y^2}$.

$$\begin{aligned} \ln \frac{8x^5}{3y^2} &= \ln 8x^5 - \ln 3y^2 \\ &= \ln 8 + \ln x^5 - \ln 3 - \ln y^2 \\ &= \ln 8 + 5 \ln x - \ln 3 - 2 \ln y \end{aligned}$$

Quotient Property

Product Property

Power Property

Exercises

1. Evaluate $2 \log_3 27 + 4 \log_3 \frac{1}{3}$.

Expand each expression.

2. $\log_3 \frac{5x^5}{t\sqrt{t^2}}$

$$\log_3 5 + 5 \log_3 x - \frac{2}{3} \log_3 t$$

Condense each expression.

4. $11 \log_9 (x-3) - 5 \log_9 2x$

$$\log_9 \frac{(x-3)^{11}}{32x^5}$$

3. $\log \frac{(a-2)(b+4)^6}{9(b-2)^5}$

$$\log (a-2) + 6 \log (b+4) - \log 9 - 5 \log (b-2)$$

5. $\frac{2}{3} \ln (2h-k) + \frac{1}{5} \ln (2h+k)$

$$\ln \left(\sqrt[3]{(2h-k)^2} \sqrt[5]{(2h+k)^3} \right)$$

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Jicheng Xie



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