

Study Guide

Class Hour

Date

CONCEPT 27: Use properties of logs to expand and condense expressions, to evaluate logs and to help with solving. Use the change-of-base formula.

Expand the logarithmic expressions.

1. $\log_2 5x$

$$\log_2 5 + \log_2 x$$

2. $\log 7x^4$

$$\log 7 + \log x^4$$

$$\log 7 + 4\log x$$

3. $\log_6 \frac{2x}{y}$

$$\log_6 2x - \log_6 y$$

$$\log_6 2 + \log_6 x - \log_6 y$$

Condense the logarithmic expressions.

4. $\log_7 3 - \log_7 5$

$$\log_7 \left(\frac{3}{5} \right)$$

5. $\log 10 - \log 5$

$$\log \frac{10}{5}$$

$$\log 2$$

6. $3 \ln x + 9 \ln y$

$$\ln x^3 + \ln y^9$$

$$\ln x^3 y^9$$

Use the change-of-base formula to evaluate the logarithm.

7. $\log_5 3$

$$\frac{\log 3}{\log 5} \approx .683$$

8. $\log_2 11$

$$\frac{\log 11}{\log 2} \approx 3.460$$

9. $\log_6 10$

$$\frac{\log 10}{\log 6} \approx 1.285$$

Solving a Real-Life Problems

10) For a sound with intensity I (in watts per square meter), the loudness $L(I)$ of the sound (in decibels) is given by the function

$$L(I) = 10 \log \frac{I}{I_0}$$

where I_0 is the intensity of a barely audible sound (about 10^{-12} watts per square meter).

Find the decibel level of the sound made by each object:

a) barking dog: $I = 10^{-4} W/m^2$

$$L(10^{-4}) = 10 \log \frac{10^{-4}}{10^{-12}}$$

$$= 80 \text{ dB}$$

b) ambulance: $I = 10^0 W/m^2$

$$L(10^0) = 10 \log \frac{10^0}{10^{-12}}$$

$$= 120 \text{ dB}$$

11) Chemists define the acidity or alkalinity of a substance according to the formula

" $\text{pH} = -\log[\text{H}^+]$ " where $[\text{H}^+]$ is the hydrogen ion concentration, measured in moles per liter. Solutions with a pH value of less than 7 are acidic; solutions with a pH value of greater than 7 are basic; solutions with a pH of 7 (such as pure water) are neutral.

a) Find the pH of a solution with a hydronium ion concentration of 5.3×10^{-7}

$$\text{pH} = -\log(5.3 \times 10^{-7})$$

$$\approx 6.3 \text{ acidic}$$

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TD Snyder



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