2.8 Logarithmic Equations and Models

Standards

FCR 3.5

Create and interpret logarithmic equations in one variable and use them to solve problems.

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Create, interpret, and solve logarithmic equations in two or more variables to represent relationships between quantities.

Notes and Definitions

logarithmic equation-equation that has a variable within the argument of a log.

To solve a logarithmic equation, do the following:

(1) Condense into a single logarithm or isolate the lone locarithm if necessary.

(2) Change to exponential form.

(3) Solve.

To find the acidity or alkalinity of a substance, the formula below can be used:

$$pH = -\log(H^+)$$

pH -+ potential of hydrogen

H+ -+ melar hydrogen ion concentration

pH can range from 0 to 14 where 0 is extremely acidic, 7 is neutral, and 14 is extremely basic or alkaline.

The magnitude of earth qualet can be found with the formula:

$$M = \log\left(\frac{I}{S}\right)$$

M - magnitude of the earthquake

/ --> intensity measured a certain distance from the epicenter S → intensity of a standard or very weak earth quake.

Worked out examples

(1) Solve for at:

$$\log_{2}(x) - \log_{2}(3) = 4$$

$$\log_{1}\left(\frac{\pi}{2}\right) = 4$$

$$\log_{1}\{-\}=4$$

$$2^{*} = \frac{2}{7}$$

$$16 = \frac{1}{7}$$

48 = x

(Countie rose)

(2) A certain acidic solution has a hydrogen ion concentration of H" = 3.2 × 10 - mol/L. Find the pH.

$$mH = -\log(H^*)$$

$$mH = -\log(3.2 \times 10^{-4})$$

The solution is somewhat acidic according to its pH.

(3) An earthquake releases energy such that the intensity measured at a location is I=50000 units. If the reference intensity is I unit, what is the magnitude of the earthquaire?

$$M = \log \left(\frac{I}{S}\right)$$

$$M = \log \left(\frac{50000}{1} \right)$$

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Examples to work out with the teacher (1) Solve for x: $5 \cdot \log_{4}(x-5) - 4 = 16$

(2) Solve for x: $\ln 18 + \ln x = 3$

(3) Find the pH of a substance that has a hydrogen ion concentration of 1.5 × 10-1 mol/L. It the relation or more Activities on all balline?

(4) A substance is very alkaline with a pH of exactly 13. Find. the hydrogen ion concentration of this substance rounded to two clanificant flaures in ocientific notation.

(5) Measured from a particular distance from the epicenter, an intentity of \$0,000 units was recorded for an earthquake. If the reference intensity is 2 units. find the magnitude of the earth guaire.

Student Independent Examples

Solve for x in the following logarithmic equations. (#1-8)

(1)
$$\log_{x}(x+1) = 2$$
 (2) $\log_{x}(x+5) = 3$

(3)
$$\log(2x) = 5$$
 (4) $\log x + \log 2 = 1$

(5)
$$\log_{1} x - 2\log_{1} 2 = 4$$
 (6) $5\log_{1} (2x - 5) = 2$

(7)
$$\operatorname{Sin}(3x+4) - 9 = 13$$
 (8) $\operatorname{In}(3x-1) = 5$

Use the formula $pH = -\log(H^*)$ to answer the following. (09-14)

(9) A solution has a hydrogen ion concentration of H+ = 2.5 × 10-4 mol/L. Find the pH of the solution. Round to the meanest Annalysed A.

(10) A code has a pH of 3.8. Find the hydrogen ion concentration rounded to two significant figures in scientific macha tions

(11) Which solution is more acidic: Solution A with H+ = 6.3 × 10-* mol/L or Solution B with H+ = 1.8 × 10-* mol/L Calculate the pH and explain your answer.

(12) A tolution has a pH of 5. What is the value of H* in scientific notation.

(13) Find the off of a solution where H* = 7.9 × 10⁻⁶ mol/L. Round to the nearest search.

(14) A solution's pH drops from 6 to 4. By what factor does the hydrogen ion concentration increase?

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David Baud



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