

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate concentrations based on the pH of acids and bases and vice versa.
2. Calculate pH and concentrations based on K_a and K_b and vice versa.
3. Calculate the pH of weak acids and bases.

Vocabulary

- | | | |
|-------------------|-----------------------------|------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. acid solution |
| 4. autoionization | 5. acid rain | 6. acid rain |
| 7. autoionization | 8. acid rain | 9. acid |

Key Equation

- | | |
|-------------------------------------|-------------------------------------|
| 1. $\text{pH} = -\log [\text{H}^+]$ | 2. $\text{pH} = -\log [\text{H}^+]$ |
| 3. $\text{pH} = -\log [\text{H}^+]$ | 4. $\text{pH} = -\log [\text{H}^+]$ |

Part A Completion

Write the equation and/or the numerical value(s) for the reaction(s) described. Show the calculation for pH or pOH. Write the chemical formula for the acid or base.

1. Write the equation and/or the numerical value(s) for the reaction(s) described. Show the calculation for pH or pOH. Write the chemical formula for the acid or base.
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20. Write the equation and/or the numerical value(s) for the reaction(s) described. Show the calculation for pH or pOH. Write the chemical formula for the acid or base.

1. $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
2. $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
3. $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
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Horace Willard Davenport



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web the heart of fourier analysis is an object known as the dirac delta function denoted as $\delta(x)$ informally it is simply a function which is zero for $x \neq 0$ and infinite at $x = 0$ such that $\int_{-\infty}^{\infty} \delta(x) dx = 1$ definition and properties to define this more formally consider the function defined by the following integral $\delta(x) = \lim_{\epsilon \rightarrow 0} \frac{1}{\epsilon} e^{-\frac{|x|}{\epsilon}}$

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web fourier analysis is fundamental to understanding the behavior of signals and systems this is a result of the fact that sinusoids are eigenfunctions section 14 5 of linear time invariant lti section 2 2 systems

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web the fourier theorem named after the french mathematician jean baptiste joseph fourier states that any repetitive

waveform can be represented as a collection of sine and cosine waves of the proper amplitude and frequency

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web in physics engineering and mathematics the fourier transform ft is an integral transform that converts a function into a form that describes the frequencies present in the original function the output of the transform is a complex valued function of frequency