

## 14.3

## HYDROGEN IONS AND ACIDITY

## Section Review

## Objectives

1. Calculate concentrations based on the pH of a given acid or hydrogen ion concentration.
2. Calculate hydrogen ion concentration from pH and hydroxide ion concentration from pOH.
3. Calculate the pH of a weak acid.

## Vocabulary

- |                   |                               |                       |
|-------------------|-------------------------------|-----------------------|
| 1. autoionization | 2. hydrogen ion concentration | 3. acid solution      |
| 4. autoionization | 5. acid rain                  | 6. acid rain solution |
|                   | 7. acid solution              | 8. pH                 |

## 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 hydrogen ion concentration or autoionization constant, if the missing quantity that is indicated in the partial equation below. Complete each equation as needed.

1. When autoionization is  $1.0 \times 10^{-14}$ , autoionization constant is  $1.0 \times 10^{-14}$ .
2. The autoionization constant is  $1.0 \times 10^{-14}$ .
3. The autoionization constant is  $1.0 \times 10^{-14}$ .
4. The autoionization constant is  $1.0 \times 10^{-14}$ .
5. The autoionization constant is  $1.0 \times 10^{-14}$ .
6. The autoionization constant is  $1.0 \times 10^{-14}$ .
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15. The autoionization constant is  $1.0 \times 10^{-14}$ .
16. The autoionization constant is  $1.0 \times 10^{-14}$ .
17. The autoionization constant is  $1.0 \times 10^{-14}$ .
18. The autoionization constant is  $1.0 \times 10^{-14}$ .
19. The autoionization constant is  $1.0 \times 10^{-14}$ .
20. The autoionization constant is  $1.0 \times 10^{-14}$ .

1.  $1.0 \times 10^{-14}$
2.  $1.0 \times 10^{-14}$
3.  $1.0 \times 10^{-14}$
4.  $1.0 \times 10^{-14}$
5.  $1.0 \times 10^{-14}$
6.  $1.0 \times 10^{-14}$
7.  $1.0 \times 10^{-14}$
8.  $1.0 \times 10^{-14}$
9.  $1.0 \times 10^{-14}$
10.  $1.0 \times 10^{-14}$
11.  $1.0 \times 10^{-14}$
12.  $1.0 \times 10^{-14}$
13.  $1.0 \times 10^{-14}$
14.  $1.0 \times 10^{-14}$
15.  $1.0 \times 10^{-14}$
16.  $1.0 \times 10^{-14}$
17.  $1.0 \times 10^{-14}$
18.  $1.0 \times 10^{-14}$
19.  $1.0 \times 10^{-14}$
20.  $1.0 \times 10^{-14}$

# 19 2 Hydrogen Ions And Acidity Worksheet Answers

**N Noddings**



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