

## 19.2

## HYDROGEN IONS AND ACIDITY

## Section Review

## Objectives

1. Identify a conjugate acid-base pair in chemical reactions involving acids and bases.
2. Calculate the pH of a solution from the concentration of  $H^+$  or  $H_3O^+$  ions, and vice versa.
3. Determine the pH of a solution from  $K_a$  and  $K_b$ .

## Vocabulary

|                 |                          |                 |
|-----------------|--------------------------|-----------------|
| acid            | conjugate base           | acid ionization |
| base            | conjugate acid           | base ionization |
| acid ionization | acid ionization constant | pH              |
| base ionization | base ionization constant |                 |

## Key Equation

1.  $pH = -\log[H^+]$  (Equation 19.2)
2.  $[H^+] = 10^{-pH}$  (Equation 19.3)

## Part A Completion

Write the chemical formula or identify the substance in each space, and then name the substance. Write the chemical formula in the space provided after the name.

1. A weak acid that is the conjugate acid of  $OH^-$ . \_\_\_\_\_
2. A weak base that is the conjugate base of  $H^+$ . \_\_\_\_\_
3. A weak acid that is the conjugate acid of  $CO_3^{2-}$ . \_\_\_\_\_
4. A weak base that is the conjugate base of  $HSO_4^-$ . \_\_\_\_\_
5. A weak acid that is the conjugate acid of  $SO_4^{2-}$ . \_\_\_\_\_
6. A weak base that is the conjugate base of  $H_2PO_4^-$ . \_\_\_\_\_
7. A weak acid that is the conjugate acid of  $PO_4^{3-}$ . \_\_\_\_\_
8. A weak base that is the conjugate base of  $H_2CO_3$ . \_\_\_\_\_
9. A weak acid that is the conjugate acid of  $NO_3^-$ . \_\_\_\_\_
10. A weak base that is the conjugate base of  $HNO_3$

# Hydrogen Ions And Acidity Section Review Answers

**Kathleen Armour**



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