

## 19.2

## HYDROGEN IONS AND ACIDITY

## Section Review

## Objectives

1. Calculate  $K_a$  and  $K_b$  for weak acids and bases, and calculate  $pK_a$  and  $pK_b$  for weak acids and bases.
2. Calculate  $K_a$  and  $K_b$  for weak acids and bases, and calculate  $pK_a$  and  $pK_b$  for weak acids and bases.
3. Calculate the  $pH$  of weak acid and base solutions.

## Vocabulary

- |                 |                                      |                                    |
|-----------------|--------------------------------------|------------------------------------|
| acid            | acid dissociation constant ( $K_a$ ) | acid ionization constant ( $K_a$ ) |
| acidic solution | acidic solution                      | acidic solution                    |
| acidic solution | acidic solution                      | acidic solution                    |

## Key Equations

- |   |  |
|---|--|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ (Equation 19.1) | $K_b = \frac{[OH^-][HB^+]}{[B]}$ (Equation 19.2) |
|---|--|

## Part A Completion

Write the  $K_a$  expression for the acid dissociation constant for each of the following acids. Write the  $K_b$  expression for the base dissociation constant for each of the following bases.

1.  $HNO_3$  (strong acid)  $K_a =$  \_\_\_\_\_

2.  $HCl$  (strong acid)  $K_a =$  \_\_\_\_\_

3.  $H_2SO_4$  (strong acid)  $K_a =$  \_\_\_\_\_

4.  $H_2SO_3$  (weak acid)  $K_a =$  \_\_\_\_\_

5.  $H_2CO_3$  (weak acid)  $K_a =$  \_\_\_\_\_

6.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

7.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

8.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

9.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

10.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

11.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

12.  $HNO_3$  (strong acid)  $K_a =$  \_\_\_\_\_

13.  $HCl$  (strong acid)  $K_a =$  \_\_\_\_\_

14.  $H_2SO_4$  (strong acid)  $K_a =$  \_\_\_\_\_

15.  $H_2SO_3$  (weak acid)  $K_a =$  \_\_\_\_\_

16.  $H_2CO_3$  (weak acid)  $K_a =$  \_\_\_\_\_

17.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

18.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

19.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

20.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

21.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

22.  $H_2PO_4^-$  (weak acid)  $K_a =$  \_\_\_\_\_

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**Patrick Vollmar**



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