

1. Write your name.

Math Skills

Determining pH

Below are eight sample problems and solutions. Write your answers to the corresponding problems on a separate sheet of paper. Write your answers to the corresponding problems.

Problem 1

Below is the pH of a 0.1 M solution of a weak acid. What is the concentration of the acid?

Solution

Step 1: Write the given and unknown values.

Given: concentration of H⁺ in solution is 0.001 M

Unknown: pH

Step 2: Determine the concentration of H⁺ in the solution.

concentration of H⁺ in solution is 0.001 M

0.001 M is a very small number. The concentration of H⁺ in the solution is equal to the concentration of H⁺.

concentration of H⁺ in solution is 0.001 M = 1 × 10⁻³ M

Step 3: Calculate the pH of the solution.

pH = the negative of the power of ten used to describe the concentration of H⁺ ions

concentration of H⁺ ions = 1 × 10⁻³ M

pH = 3

Problem 2

1. A strong acid, HCl, has a concentration of 0.1 M. What is the pH of the solution?

2. A weak acid, HCl, has a concentration of 0.1 M. What is the pH of the solution?

Skills Math Skills Determining Ph

Tobias Bleicker



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