NAME: **HONORS CHEMISTRY**

SECTION: pH Problems for Homework

**Solve the following problems: Write the correct equation. Show all your work. Report your answer with the correct number of significant figures**

1. Find the pOH of a 2.5M solution of hydrobromic acid, a strong acid.

2. A solution of nitric acid, a strong acid, has a hydronium ion concentration of 0.15 M.

What is the hydroxide ion concentration of the solution?

1. Find the pH, pOH and the hydroxide ion concentration of a 0.362 M solution of acetic acid, a weak acid with 1.35% dissociation.
2. A soap solution is found to have a pH of 10.56. Calculate the pOH, hydroxide ion concentration and the hydronium ion concentration.