Practice Buffer Problems

1. Calculate the pH in a solution which is 0.1 M HC2H3O2
2. Calculate the pH in a solution which is 0.1 M HC2H3O2 and 0.3 M NaC2H3O2

Then,

1. Calculate the pH if 0.01 moles of HCl is added to 1 L of the solution in #2

1. Calculate the pH if 0.02 moles of NaOH is added to 1 L of the solution in #2
2. Calculate the pH if 0.10 moles per of NaOH is added to 1 L of the solution in #2
3. Calculate the pH if 0.30 moles of HCl is added to 1 L of the solution in #2
4. Calculate the pH if 0.40 moles of HCl is added to 1 L of the solution in #2