Acid Base Titration Analysis

- 1. 0.10M hydrochloric acid solution.
 - a. Determine the pH.

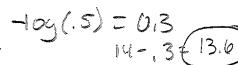


How would you describe the value of the Ka of hydrochloric acid? $\begin{tabular}{ll} $\mathsf{Ver}_{\mathsf{A}}$ (argle) \\ \end{tabular}$

- Draw a picture of this solution 0.10M in the beaker provided.
- d. Draw a picture of a 0.05M solution of HCl in the beaker provided.



a. Determine the pH of this solution.



b. Justify or nullify the following statement: NaOH does not have a Kb value

because it does not undergo hydrolysis. True, if how akp but that is very Big Draw a picture of the basic solution in the beaker provided.

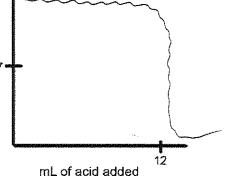


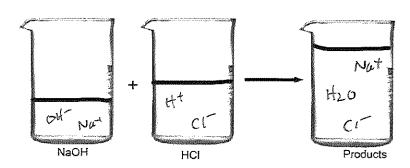
3. A pH meter and 10mL of 0.5M NaOH are placed in a beaker. 12mL of 0.5M HCl and 2 drops of HOI+ NAOH > Naci+ HZG phenolphthalein are added to a beaker.

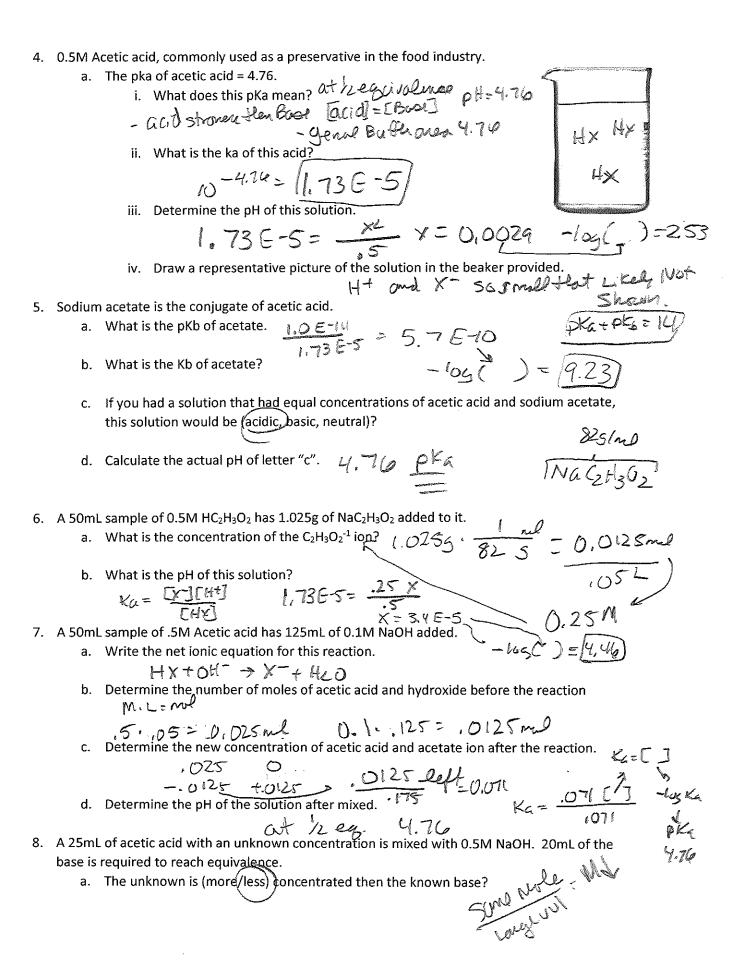
a. Write the neutralization reaction.

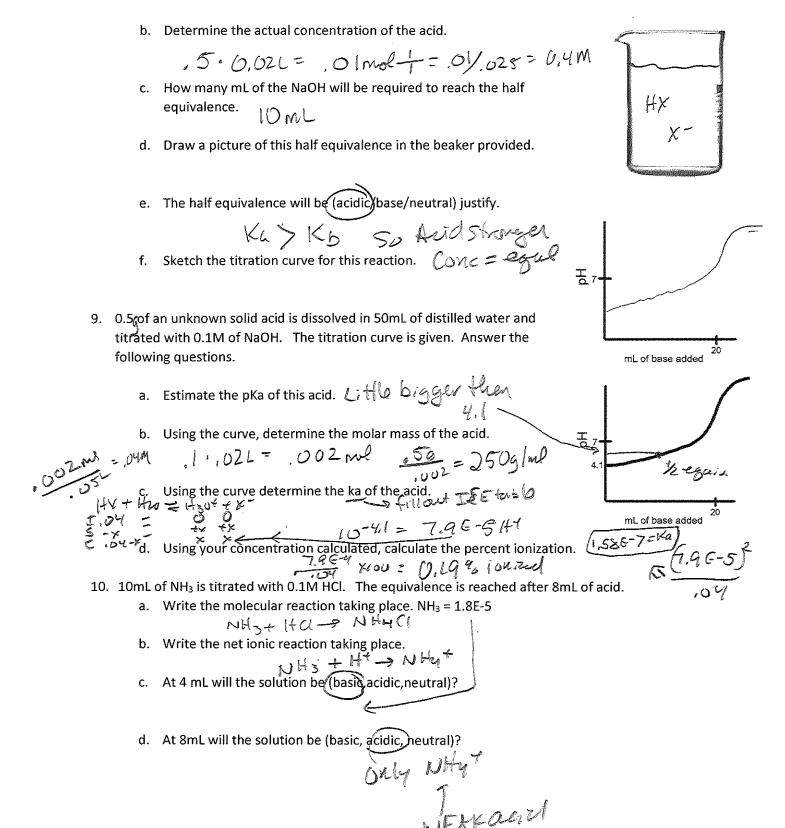
b. Will the beaker be clear/pink/green?

d. In the three beakers below sketch the reactants and products.









e. To the best of your ability draw the following beaker at different times of the neutralization.

