

Name: Key

1. Which of the following is a stronger acid,  $\text{CH}_2\text{ClCOOH}$  or  $\text{CHCl}_2\text{COOH}$ ? Explain your reasoning.

$\text{CHCl}_2\text{COOH}$  because Cl is more electronegative than H and  $\text{CHCl}_2\text{COOH}$  has one more Cl atom (in the place of a H) than  $\text{CH}_2\text{ClCOOH}$  has.

2. Classify these compounds as acidic, basic, or pH-neutral:

