Unit 9 - Chapter 15:	<b>Buffer Problems</b>
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Period			

- 1) Calculate the pH of each of the following solutions
  - a. 0.100 M propanoic acid (HC<sub>3</sub>H<sub>5</sub>O<sub>2</sub>,  $K_a = 1.3 \times 10^{-5}$ )
  - b. 0.100 M sodium propanoate (NaC<sub>3</sub>H<sub>5</sub>O<sub>2</sub>)
  - c. pure water
  - d. A mixture containing 0.100 M HC<sub>3</sub>H<sub>5</sub>O<sub>2</sub> and 0.100 M NaC<sub>3</sub>H<sub>5</sub>O<sub>2</sub>

2) Calculate the pH after 0.020 moles HCl is added to 1.00 L of each solution in #1

3) Calculate the pH after 0.020 moles of NaOH is added to 1.00 L of each solution in #1.