4.14 WEAK ACID PROBLEM SET

1. Calculate the pH of a 0.045 M solution of formic acid.	
2. What is the $[H_3O^+]$ of 0.500 M H_2S ?	
3. Calculate the Ka of a weak acid (HA) if the pH of a 0.15 M solution of the acid is 4	.78.

4. Calculate the concentration of a solution of carbonic acid with a pH = 3.45	
5. Which solution will be most acidic? You must show all your work.	
a) 0.45 M HCN	
b) 0.25 M NH ₄ ⁺	