AP Chemistry Acid/Base Equilibrium Quiz Na	ame:Class:
Assume all of the following experim 1. A 300.0 mL solution of 0.090 M formic acid (HCOC used to test the pH of the solution. a. What was the pH? (5 pts) b. If a 5.00 M stock solution were available, how were	OH) was prepared with distilled water. A pH meter wa
2. A 3.968 g sample of potassium formate (KCOOH) w 250.0mL with dH_2O . What would be the pH of this sol	
3. 35.37 mL of 8.00M formic acid and 9.13 g of potass Assume the addition of the salt does not contribute to the solution? (6 pts)	
4. 80.00 mL of 0.10 M formic acid was titrated with 0. what is the pH? (6 points)	.170 M NaOH. After the addition of 41.02 mL of base
5. Ascorbic acid ($HC_6H_7O_6$) is also known as Vitamin crumbling Vitamin C tablets into water. When the solu [$C_6H_7O_6$], [$C_6H_6O_6^2$], and pH? (8 points)	
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- 2. A 3.968 g sample of potassium formate (KCOOH) was added to a beaker and brought up to a volume of 250.0 mL with dH_2O . What would be the pH of this solution at equilibrium? (6 pts)
- 3. 35.37 mL of 8.00M formic acid and 9.13 g of potassium formate were added to 400.00 mL of distilled water. Assume the addition of the salt does not contribute to the volume of the solution. What is the pH of this solution? (6 pts)
- 4. 80.00 mL of 0.10 M formic acid was titrated with 0.170 M NaOH. After the addition of 41.02 mL of base, what is the pH? (6 points)
- 5. Ascorbic acid ($HC_6H_7O_6$) is also known as Vitamin C. A 0.34 M ascorbic acid solution was made by crumbling Vitamin C tablets into water. When the solution reaches equilibrium what is the [$HC_6H_7O_6$], [$C_6H_7O_6$], [$C_6H_6O_6$], and pH? (8 points)