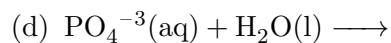
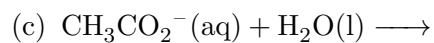
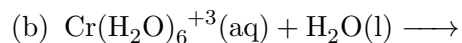
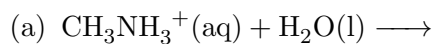


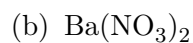
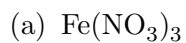
Name: _____

Date: _____

[8 pt] 1. Write a balanced net ionic equation for each of the following ions with water. Is the ion acting as an acid or base in the reaction?



[8 pt] 2. Classify each of the following salt solutions as: (A)cidic, (B)asic, or (N)eutral. Show reactions supporting your answers.



[5 pt] 3. Define the term amphoteric. Write **TWO** reactions for the HSO_3^- anion reacting with water showing its amphoteric nature.

CHE 112 - Homework - Ch 14c

[5 pt] 4. What is the pH of a 0.1 M solution of $\text{Na}(\text{CH}_3\text{CO}_2)$.

[5 pt] 5. What is the pH of a 0.1 M solution of aluminum chloride (AlCl_3 which when dissolved in water gives the hydrated ion $\text{Al}(\text{H}_2\text{O})_6^{+3}$ in water. $K_a = 1.4 \times 10^{-5}$

[4 pt] 6. What is the pH of a 0.1 M solution of NaNO_3 .