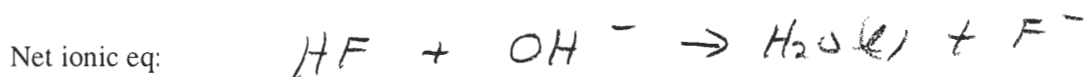
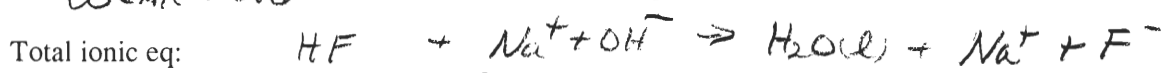
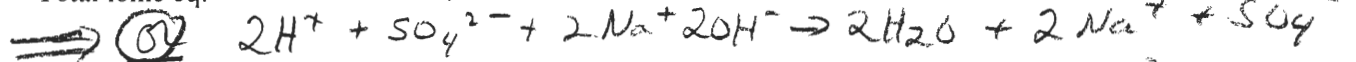
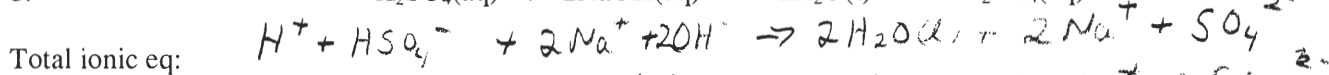
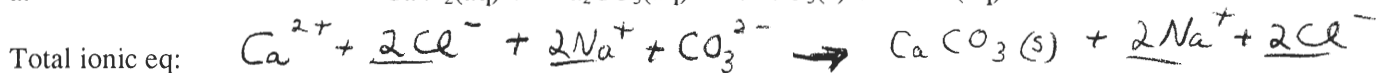
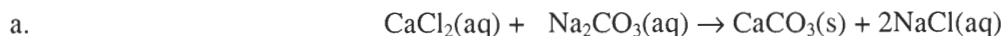


1. (2 Pts) Give the formulas for one strong acid and one strong base. Acid _____ Base _____

2. (3 Pts) What is the potassium ion concentration in 100.0 mL of 2.5 M K_3PO_4 solution?

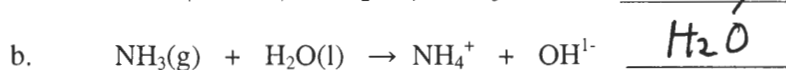
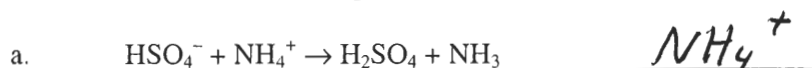
$$3 \times 2.5 = 7.5 M$$

3. (12 Pts) Write the balanced molecular total ionic and net ionic equations for the following reactions. If no reaction is expected, write "no reaction."



*This format is true for weak acids with st. bases.

4. (4 Pts) Which substance is acting as a Brønsted acid in the following reactions?



5. (4 Pts) Complete and balance each of the following reactions.

