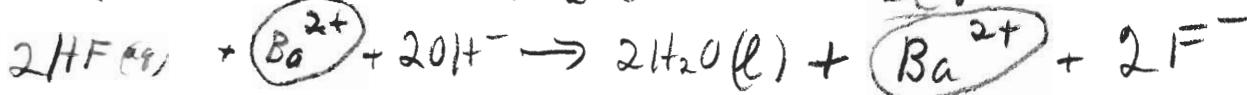
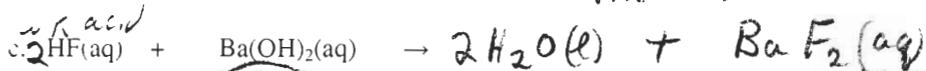
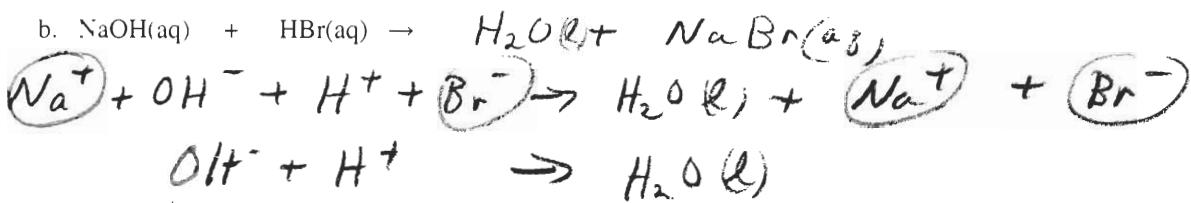
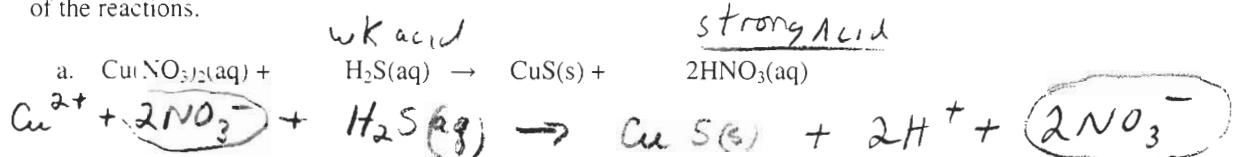


CHM151 Quiz 5a 25 Pts Spring 2006 Name: Key

1. (3 Pts) Which one of the following is a strong acid?

- a) HF b) HNO_3 c) CH_3COOH d) H_2SO_3 e) H_2CO_3

2. (9 Pts) Write the total ionic and the net ionic equation for the following reactions. You may have to complete and balance some of the reactions.



3. (4 Pts) What mass of CaCl_2 must be dissolved in enough water to produce 2000 mL of 1.25 M CaCl_2 solution?

$$\frac{2000 \text{ mL}}{1000 \text{ mL}} \left| \begin{array}{c} 1.25 \text{ mole} \\ \text{mole} \end{array} \right| \frac{110.98 \text{ g}}{\text{mole}} = 277 \text{ g CaCl}_2$$

Sig. figs. weren't indicated
in the 2000 mL

4. (4 Pts) How many mL of 18.4 M H_2SO_4 are needed to prepare 600 mL of 0.10 M H_2SO_4 ?

$$\frac{M_1 V_1}{(18.4 \text{ M}) V_1} = \frac{M_2 V_2}{(0.10 \text{ M H}_2\text{SO}_4)}$$

$$V_1 = 3.26 \text{ mL} \quad (3.2 \text{ mL})$$

5. (5 Pts) What volume of 0.130 M HCl solution will just react with 0.424 gram of $\text{Ba}(\text{OH})_2$?

