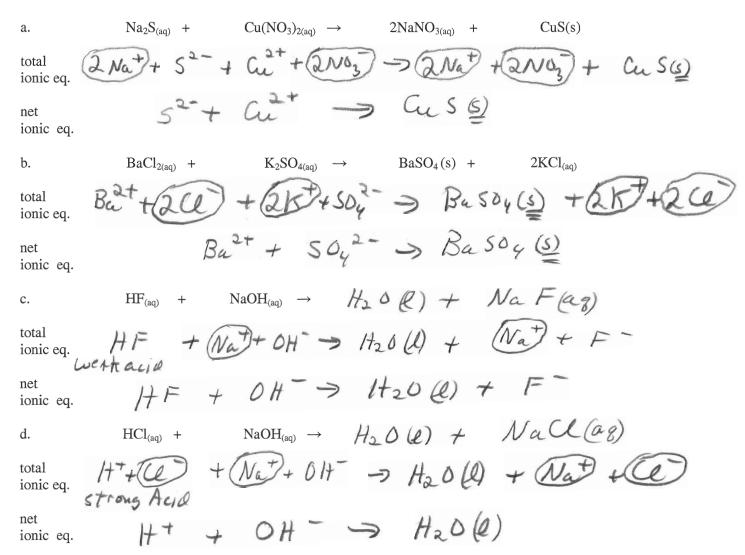
## CHM151 Quiz 6a 25 Pts Fall 2008 Name: Key SHOW ALL WORK TO RECEIVE CREDIT.

Molar masses: K 39.1; Mn 54.9; O 16.0

1. (16 Pts) Write total ionic and net ionic equations for each of the following reactions. You will have to complete some of the reactions. Also watch for weak acids.



2. (6 Pts) A 0.798 sample g of KMnO<sub>4</sub> was dissolved in water to form 50.0 mL of solution.

a. Determine the molarity of the solution. 0.7989 | mol |  $1589 | 50.0 \times 10^{-3} L = 0.101 | mol |$ 

b. 10.0 mL of the solution formed in part 2a was taken and diluted to 50.0 mL total volume. Determine the resulting molarity?

esulting molarity?  $M_1 V_1 = M_2 V_2$   $(0.101M)(10.0mL) = M_2 (50.0mL)$  $M_2 = 0.0202 M$ 

3. (3 Pts) Give the formula for one weak acid, one weak base, and one strong base.

example: HF Ms(eH) NaOH