

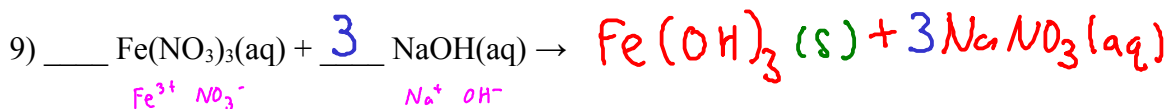
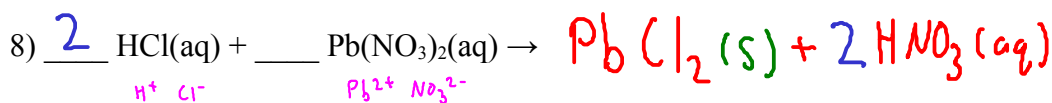
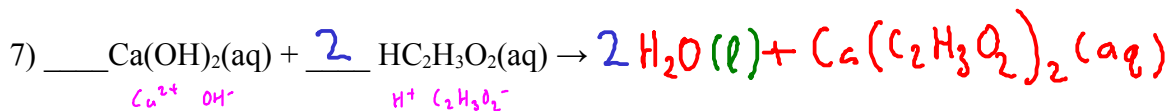
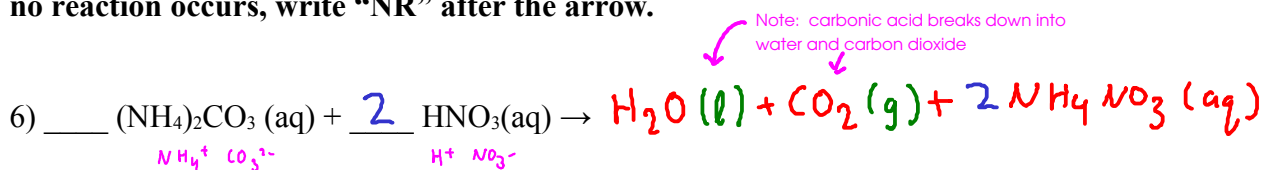
CHM 110 Practice Set
Solubility and Exchange

SOLUTIONS

Use the solubility rules (from the book or the web site) to predict the solubility of the following ionic compounds. Use “soluble” or “insoluble” as answers.

- 1) insoluble $\text{Fe}_2(\text{CO}_3)_3$
- 2) soluble KOH
- 3) soluble $\text{AgC}_2\text{H}_3\text{O}_2$
- 4) insoluble $\text{Ca}_3(\text{PO}_4)_2$
- 5) soluble TiI_4

Complete and balance the following exchange reactions. Include phase labels for all products. If no reaction occurs, write “NR” after the arrow.



Steps to solve exchange reaction problems:

- 1) Find the ions/charges
- 2) Exchange cations/anions to find products
- 3) Driving force? If so, balance. If not, NR