

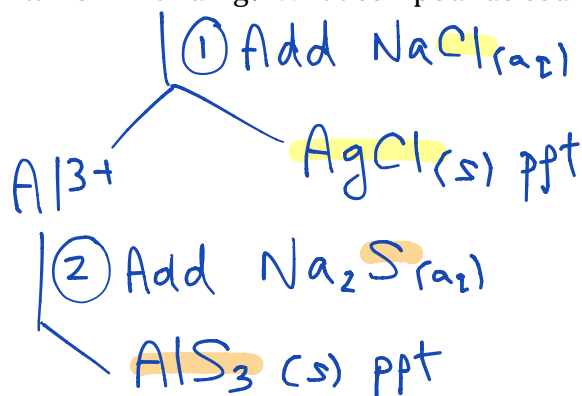
Separating Ions

Name: Key
Date:

1. What ions could be present in a solution if separate samples of it gave a precipitate when:

- a. Either SO_4^{2-} or OH^- are added? Ag^+ , Ca^{2+} , Ba^{2+} , Pb^{2+}
 b. SO_4^{2-} is added, but none when OH^- is added? Sr^{2+}

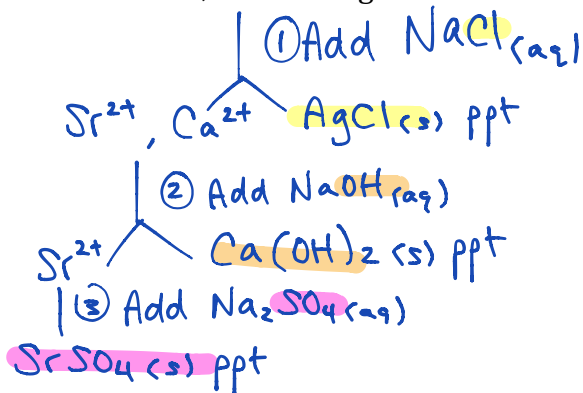
2. A solution contains Al^{3+} and Ag^+ . What compounds could be added, and in what order, to separate these ions?



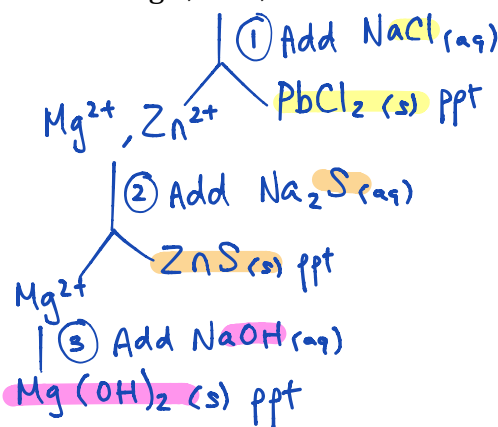
(other answers are possible)

3. For the following, determine what compounds could be added, and in what order, to separate these ions? (Other answers are possible)

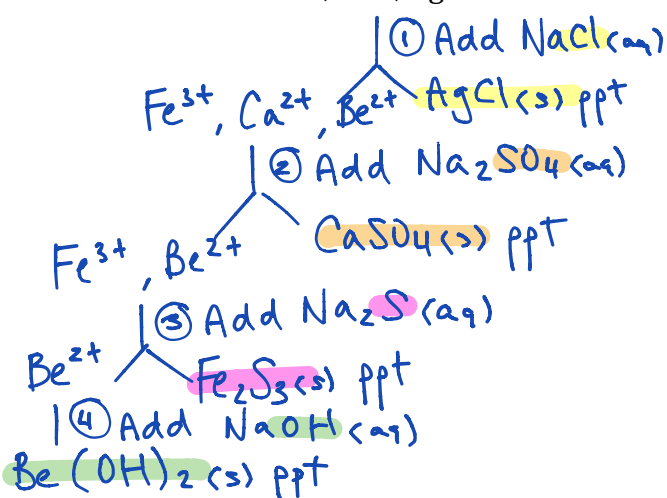
a. Sr^{2+} , Ca^{2+} and Ag^+



b. Mg^{2+} , Pb^{2+} , and Zn^{2+}



c. Fe^{3+} , Ca^{2+} , Ag^+ and Be^{2+}



d. I^- , SO_4^{2-} , and OH^-

