

Name: _____

Date: _____

Lab Section: _____

Prelab Assignment: Qualitative Analysis of Group 1 Cations

1. In order to identify Ag^+ , the solution must be acidified before a precipitate can form. Why?

2. A solution may contain one or more of the Group 1 cations. A white precipitate forms when 6 M HCl is added to the solution. The precipitate is insoluble in hot water. The precipitate is then found to be completely soluble in 6 M NH_3 . Indicate whether each of the following cations is present, undetermined, or absent.

 Pb^{2+} _____ Hg_2^{2+} _____ Ag^+ _____

Explain.