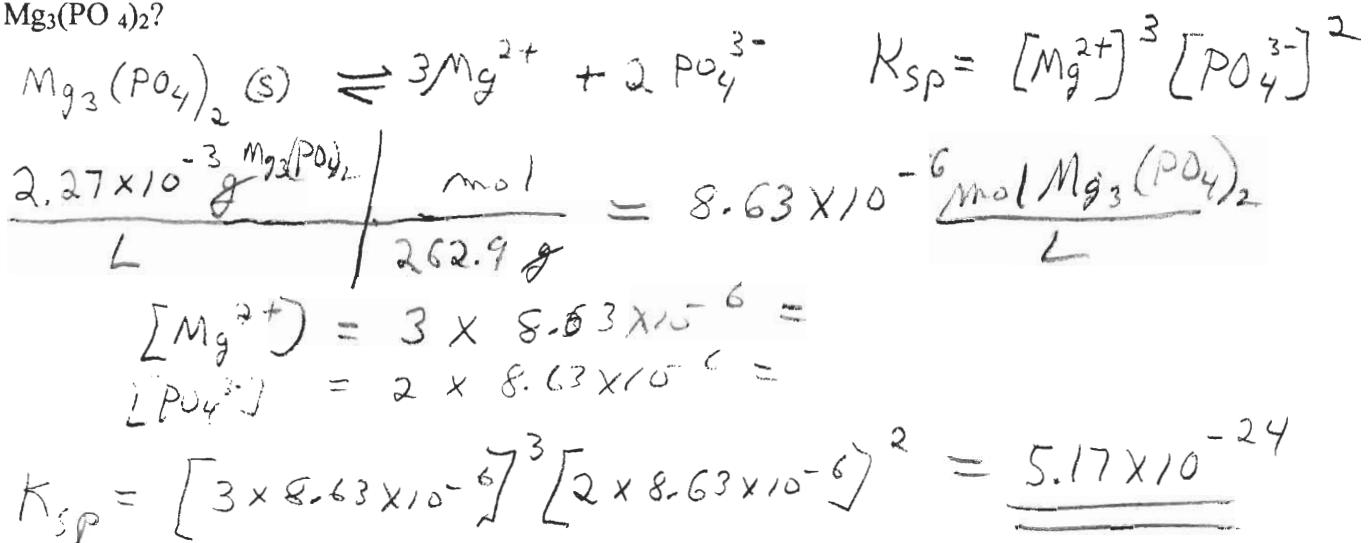


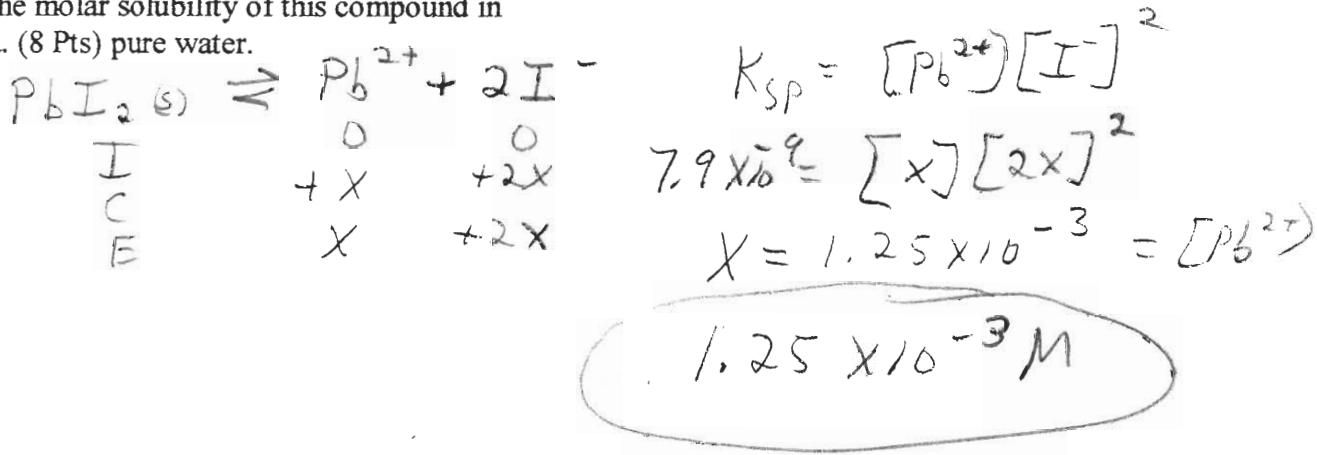
Q 9 CHM152 25 Pts fall 2005 ksp Name: Key

1. (8 Pts) The solubility of magnesium phosphate is  $2.27 \times 10^{-3}$  g/1.0 L of solution. What is the  $K_{sp}$  for  $Mg_3(PO_4)_2$ ?



2. Lead(II) iodide,  $PbI_2$ , is an ionic compound with a solubility product constant  $K_{sp}$  of  $7.9 \times 10^{-9}$ . Calculate the molar solubility of this compound in

- a. (8 Pts) pure water.



- b. (8 Pts) 0.50 mol L<sup>-1</sup> KI solution.

