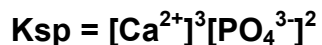
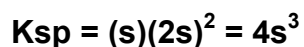
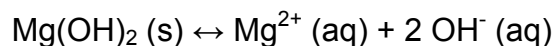


Name _____ KEY _____ Section _____ chm151 sp09 Quiz 8

1) (4 pts) Write the K_{sp} (ion-product) expression for Calcium Phosphate, Ca₃(PO₄)₂, salt.



2) (4 pts) For the following reaction, write the molar solubility expression of K_{sp}.



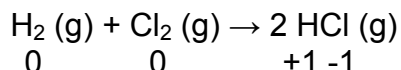
3) (3 pts) Rank the following compounds by INCREASING solubility (1=least, 3=most).

 2 Silver Bromide (AgBr, K_{sp}=7.7x10⁻¹³)

 3 Silver Chloride (AgCl, K_{sp}=1.6x10⁻¹⁰)

 1 Silver Iodide (AgI, K_{sp}=8.3x10⁻¹⁷)

4) (3 pts) For the following reaction, identify which species is OXIDIZED and which is REDUCED.



Circle the correct response:

Hydrogen is **OXIDIZED** / REDUCED

Chlorine is OXIDIZED / **REDUCED**

5) (6 pts) For the following reaction, write each half reaction.

