CHEM1902/1904 2009-N-2 November 2009

 All forms of life depend on iron and the concentration of iron in the oceans and elsewhere is one of the primary factors limiting the growth rates of the most basic life forms. One reason for the low availability of iron(III) is the insolubility of the hydroxide, Fe(OH)₃, which has a K_{sp} of only 2 × 10⁻³⁹. Calculate the maximum possible concentration of Fe³⁺(aq) in the pre-industrial era ocean which had a pH of about 8.2. 		Marks 6
	$[Fe^{3+}(aq)] =$	
How many Fe ³⁺ (aq) ions are present in a l	litre of seawater at this pH?	
	Answer:	-
The pH of the ocean is predicted to drop t concentration of CO ₂ in the atmosphere in concentration of Fe ³⁺ (aq) will result from	ncreases. What percentage change in the	
	Answer:	