Exam 2 common mistakes

$$Ksp = (2x)^2(x)$$
, is $Ksp = 4x^3$

Ka is used an acid (or conjugate acid), Kb is used with a base (or conjugate base)

Protonated form of a base (B), BH+ use Ka

When finding ΔH or ΔS forgetting a negative sign

 ΔS is J/K so remember to convert to kJ when finding ΔG

If ΔH <0 and ΔS >0, the reaction is spontaneous at any temperature

 ΔG° = -RTInK, if the ΔG° is negative K should be >1