Redissolving of metal hydroxides

I what is redissolve?

- precipitate dissolve when excess reactant is used : further reactions

	All H level + NaoH cogs Ai3+ ZW2+ Pb2+ / KOH cogs	# 级 + NHs(aq) -	→ ① Add drop by drop until in excess
limited	$A ^{3+} + 3OH^{-} \rightarrow A (OH)_3$ $Zh^{2+} + 2OH^{-} \rightarrow Zh(OH)_2$ $Pb^{2+} + 2OH^{-} \rightarrow Pb(OH)_2$ © forms white ppt	$ZN^{2+} + 2OH^{-} \rightarrow ZN(OH)_{2}$ @forms white PPT $Cu^{2+} + 2OH^{-} \rightarrow Cu(OH)_{2}$ @forms <u>blue</u> PPT	
excess	A1(OH) ₃ +OH \rightarrow A1(OH) ₄ Zn(OH) ₂ +2OH \rightarrow Zn(OH) ₄ Pb(OH) ₂ +2OH \rightarrow Pb(OH) ₄ ² (3) again	$Zn(OH)_2 + 4nH_5 \rightarrow Zn(NH_5)_4^{2+} + 2OH^-$ 3 then dissolute $Cu(OH)_2 + 4NH_5 \rightarrow \underline{Cu(NH_5)_4^{2+}} + 2OH^-$ 3 organing organing C_5 4 gives deep blue solute	ve

2 Distinguishing tests

- 大部分问题也不会用到 redissolve 的方法
 - > eg. Zn(NO3)2, Pb(NO3)2
 - -> Add HClago, Pb2+ + 2Cl -> PbCl2
- 用 redissolve 的例题
 - > eg. Zn(OH)2, A1(OH)3
 - -> Add both solids into NH3 (ag) respectively.
 - \rightarrow AI(OH)₃ does not dissolve,
 - Zn(OH)2 dissolves.
 - $\rightarrow Z_{N}(OH)_{2} + 4NH_{3} \rightarrow Z_{N}(NH_{3})_{4}^{2\dagger} + 2OH^{-}$