Redissolving of metal hydroxides

I what is redissolve?

- precipitate dissolve when excess reactant is used : further reactions

	All H level + NaoH cago All Truet Phet / KOH cago	# 级 + NHs(aq)	→ ① Add drop by drop until in excess
limited	$A ^{3+} + 3OH^{-} \rightarrow A (OH)_3$ $Zn^{2+} + 2OH^{-} \rightarrow Zn(OH)_2$ $Pb^{2+} + 2OH^{-} \rightarrow Pb(OH)_2$ © forms white ppt	$ZN^{2+} + 2OH^{-} \rightarrow Zn(OH)_{2}$ @ forms white PPT $Cu^{2+} + 2OH^{-} \rightarrow Cu(OH)_{2}$ @ forms blue 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 \rightarrow again	$Zn(OH)_2 + 4NH_3 \rightarrow Zn(NH_3)_4^{2+} + 2OH^-$ 3 then disso $Cu(OH)_2 + 4NH_3 \rightarrow Cu(NH_3)_4^{2+} + 2OH^-$ 3 organn $Coulon \rightarrow Cu(NH_3)_4^{2+} + 2OH^-$ 3 organn	olve

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 HClagy, Pb2+ +2Cl -> PbClz
- 用 redissolve 的例题
 - > eg. Zn(0H)2, A1(0H)3
 - -> Add both solids into NH3 (ag) respectively.
 - \rightarrow AI(OH)₃ does not dissolve, Zn(OH)₂ dissolves.
 - \rightarrow Zn(OH)₂ + 4NH₃ \rightarrow Zn(NH₃)₄^{2†} + 2OH⁻