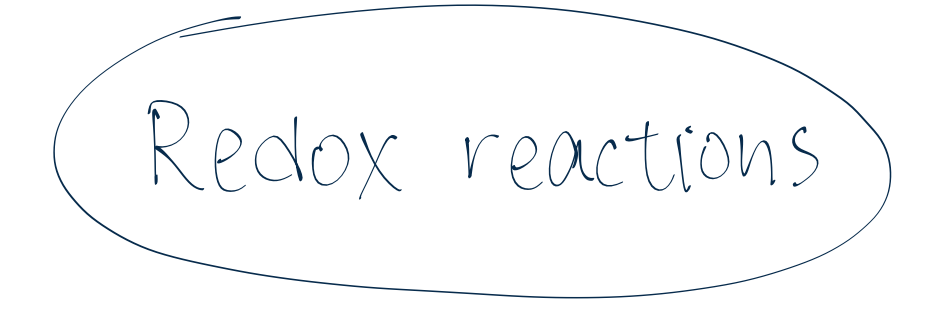
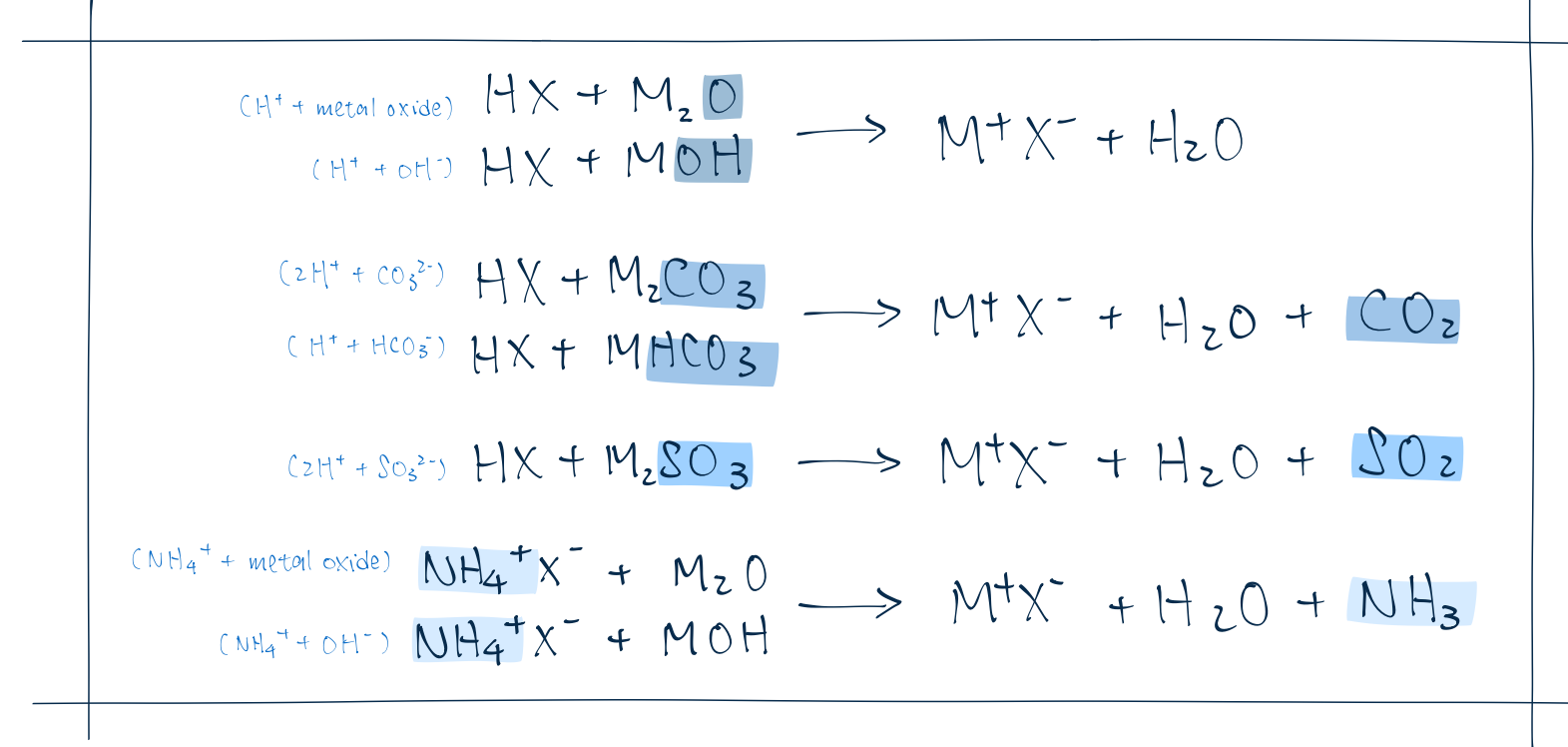
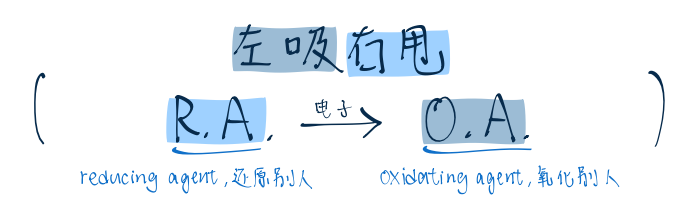


(真正 react 为  $H^+$ )

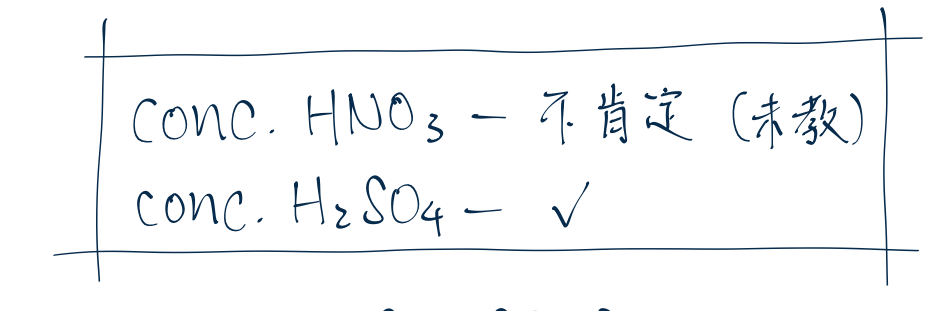
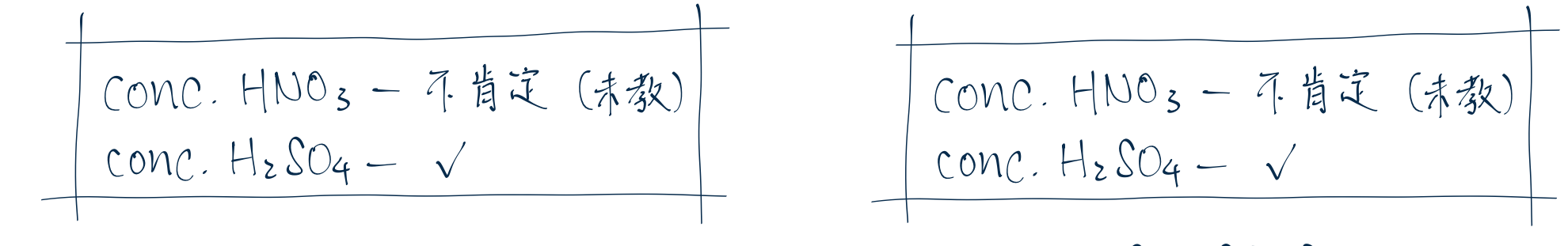
conc. 与 dilute acid reaction 一样 只是 rate 不同



Transfer of electrons



- 四部曲
- 1. 只 O 加水
  - 2. 只 H 加  $H^+$
  - 3. 平衡电荷 (加电子)
  - 4. 左右两边的 LEM 加进
- HALF EQU.
- FULL EQU.

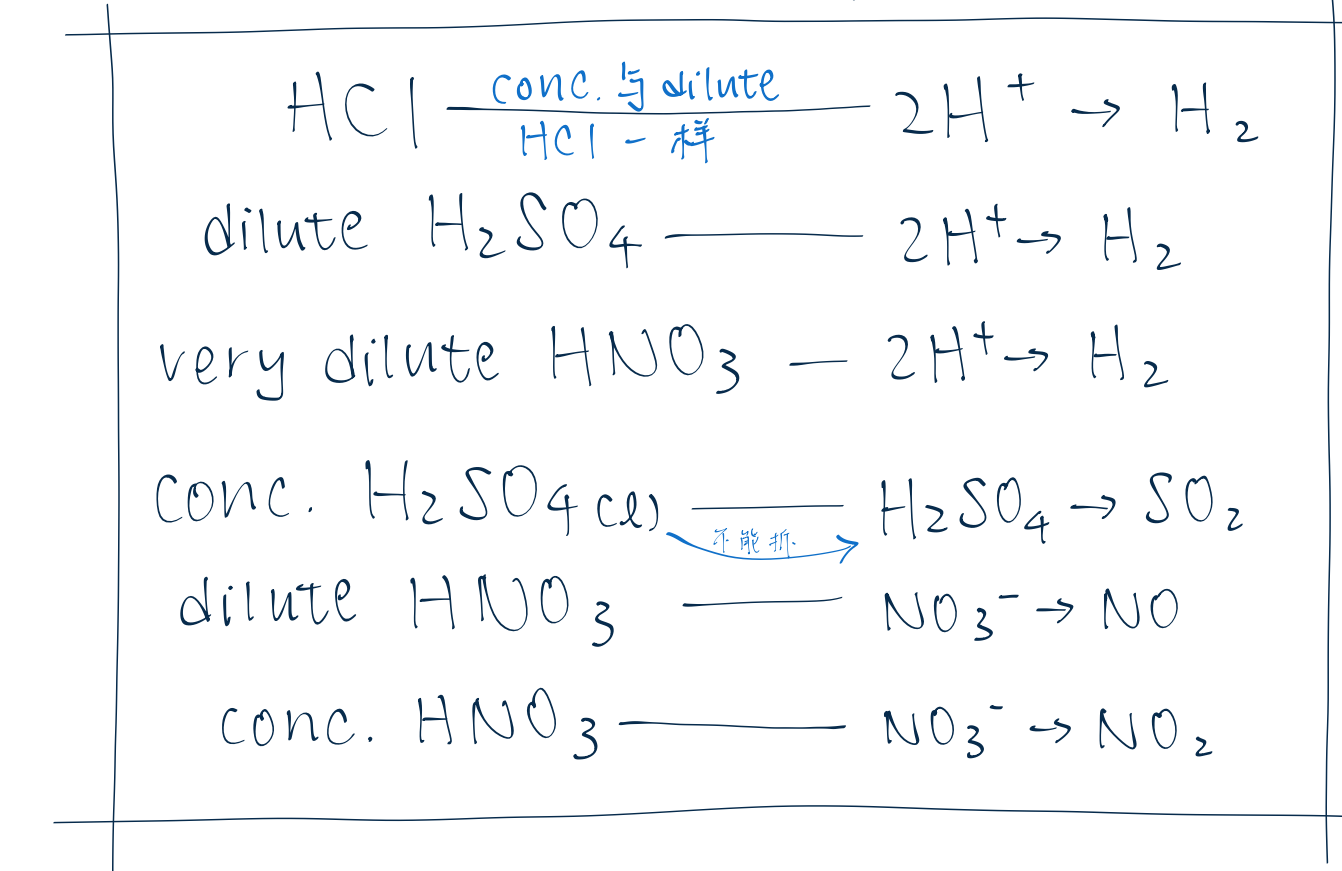


( $Fe^{2+} \rightarrow Fe^{3+}$ )

RA ③: ions

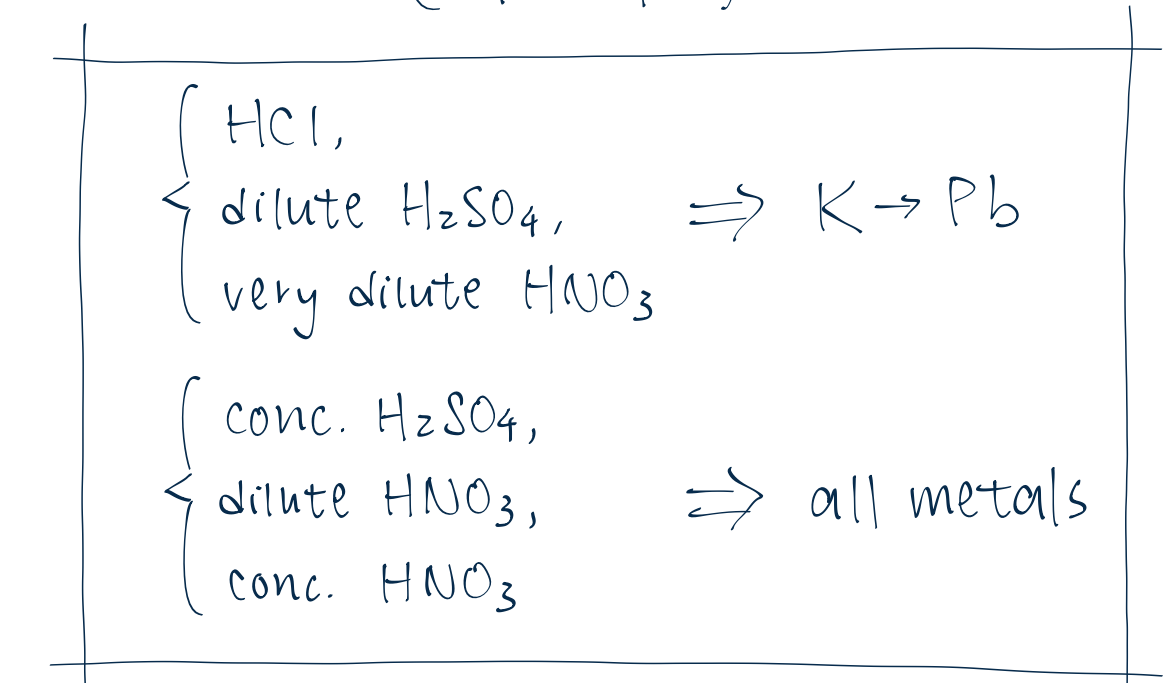
( $C \rightarrow CO_2$ ,  $S \rightarrow SO_2$ )

RA ③: non-metals



RA ①: metals

( $M \rightarrow M^{n+}$ )



K	钾
Na	钠
Ca	钙
Mg	镁
Al	铝
Zn	锌
Fe	铁
Sn	锡
Pb	铅
H	氢
Cu	铜
Hg	汞
Ag	银
Au	金

Reactivity Series

看 reaction 是

① 弱  $\rightarrow$  强 (x)

② 强  $\rightarrow$  弱 (v)

判断有没有 reaction?

