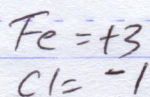
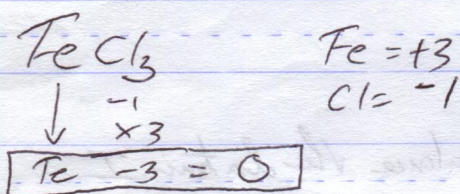
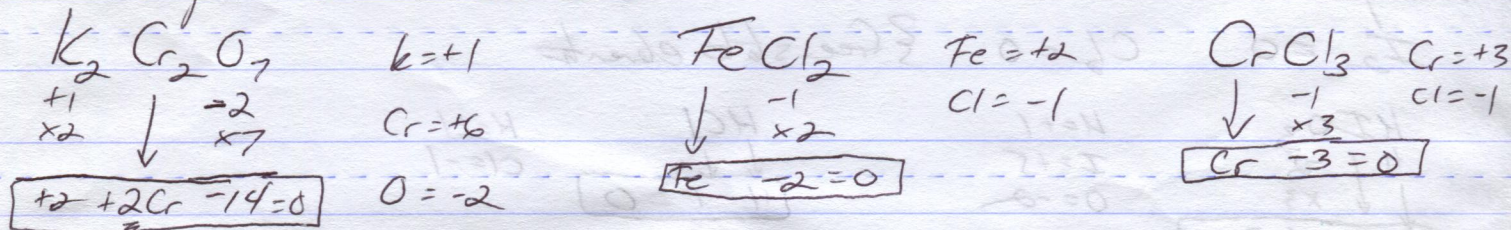


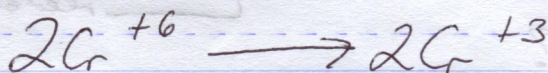
• no free state elements - but there are two transition metals to look at

① Assign oxidation numbers



• There is no need to check KCl , KCl , and H_2O (it's okay if you do).

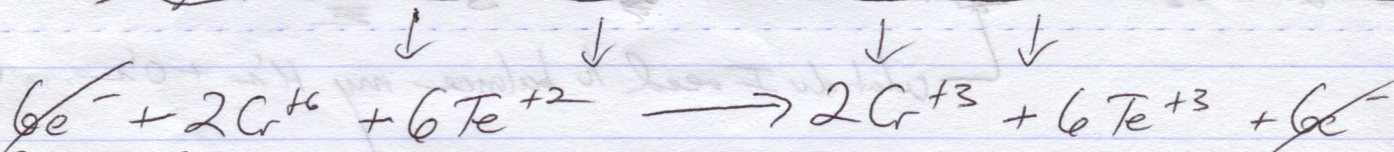
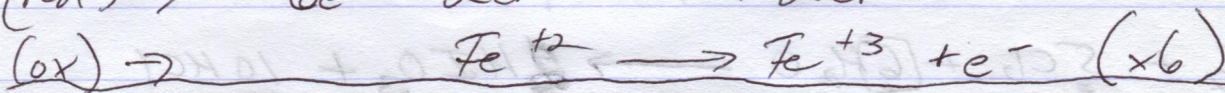
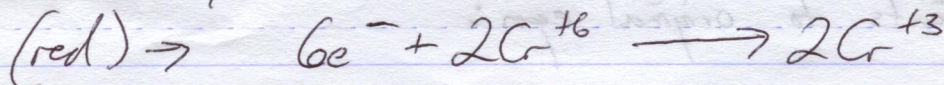
② What's changed?



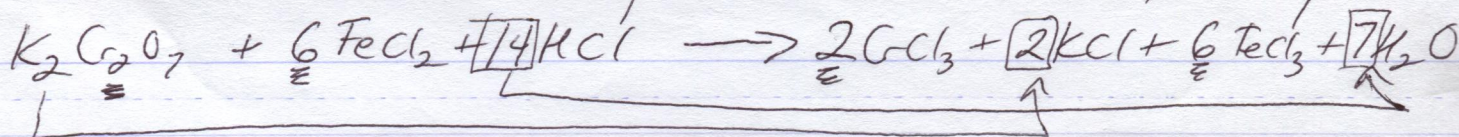
↑ I need to add this two because of the 2 Cr's in $K_2Cr_2O_7$



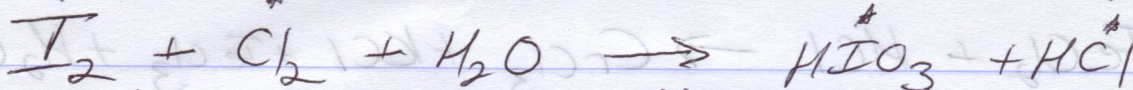
③ Oxidised / Reduced?



④ Add coefficients to original + balance HCl , KCl , + H_2O by hand:

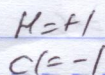
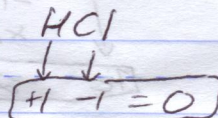
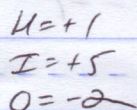
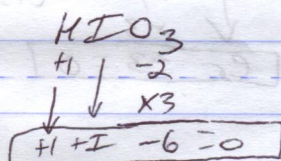
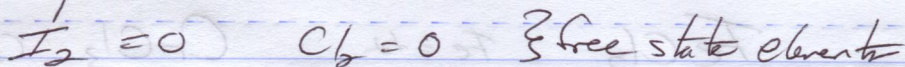


check these guys out

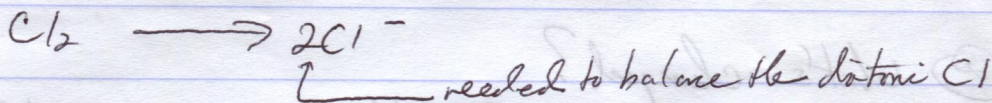
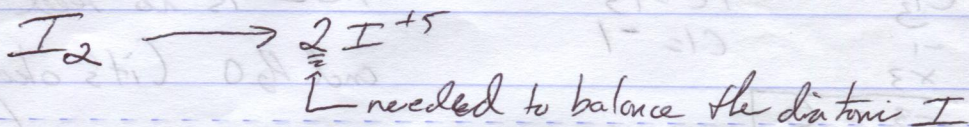


• 2 free state elements - yes!!

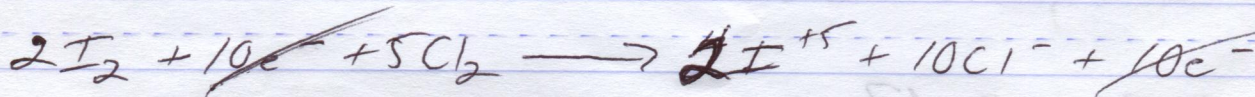
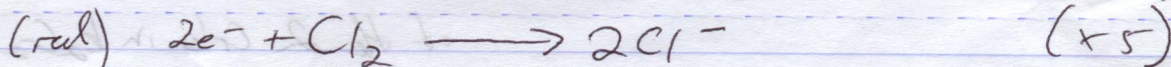
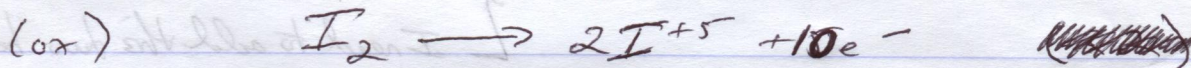
① Assign oxidation numbers



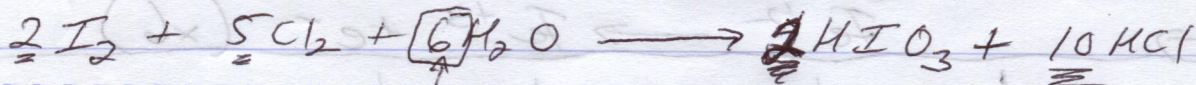
② What's changed?



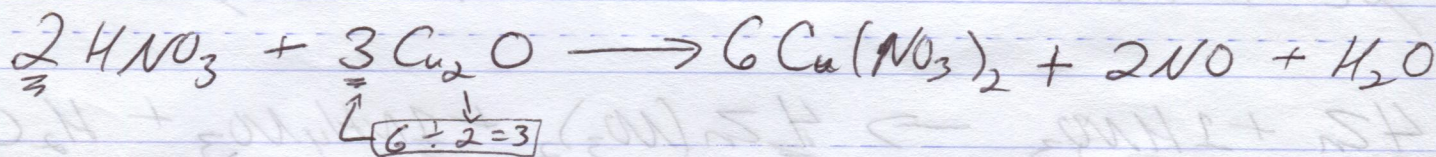
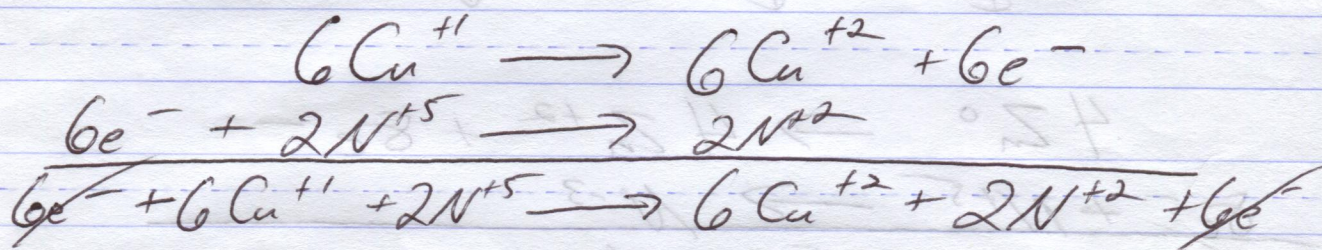
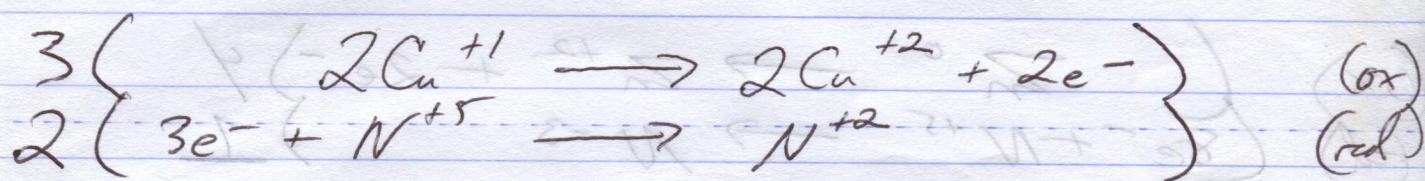
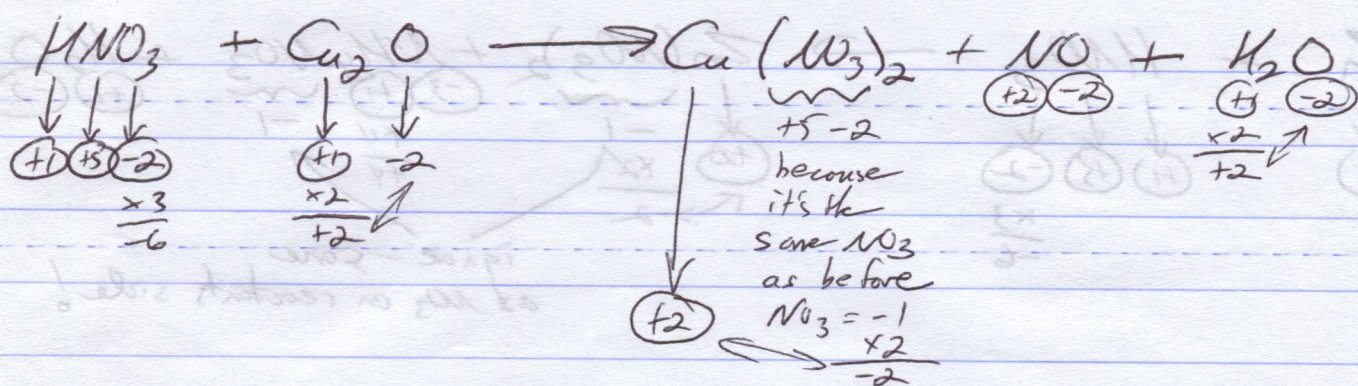
③ Oxidized / Reduced?



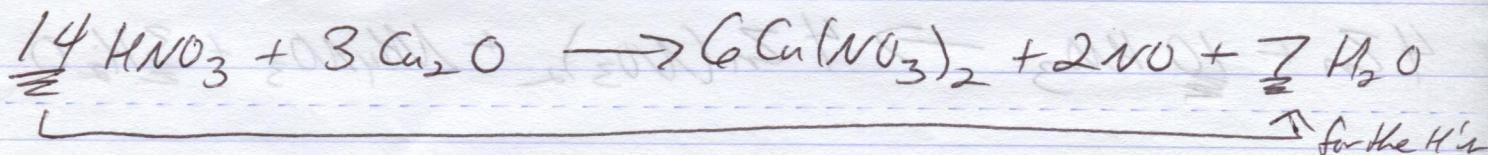
④ Add coefficients to original eqn:

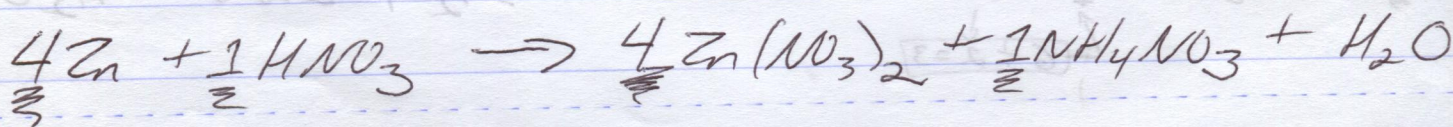
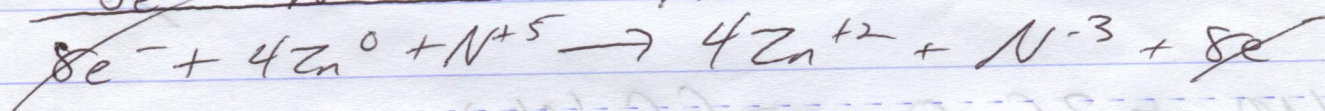
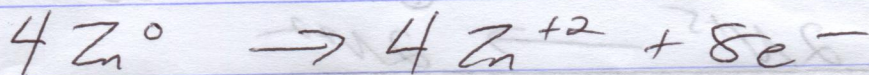
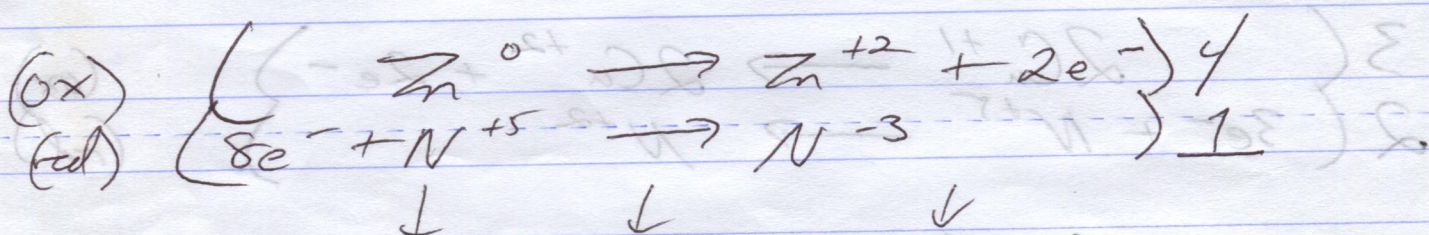
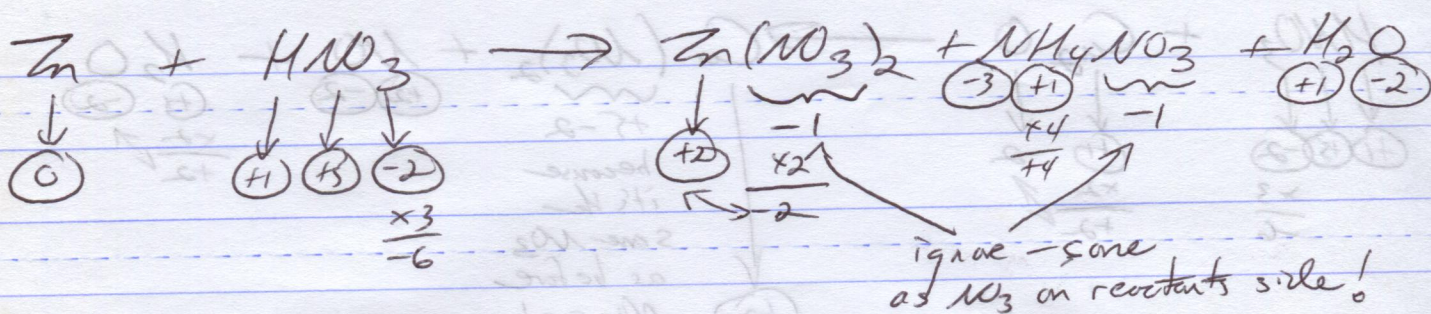


what do I need to balance my H's + O's... 6!



* The number of N's isn't quite right...





* N's are on issue again... :-

