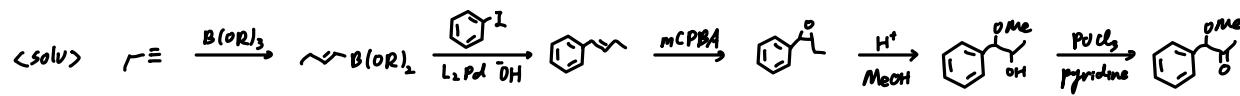
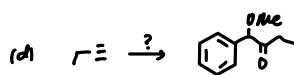
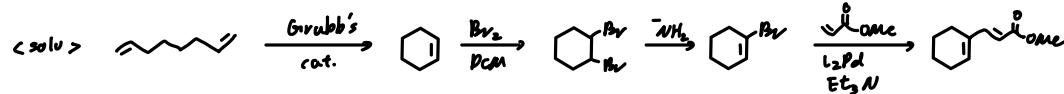
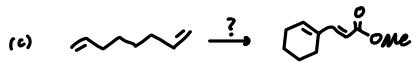
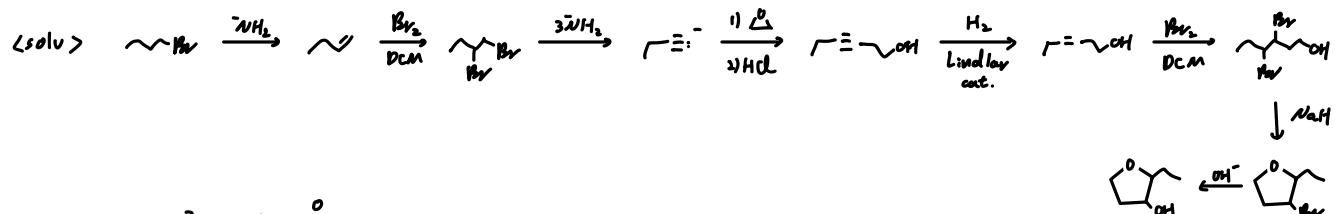
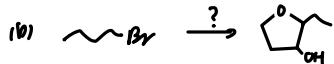
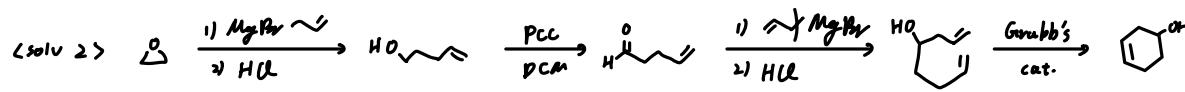
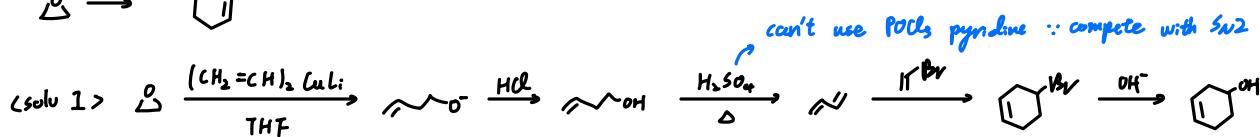
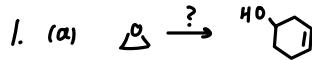
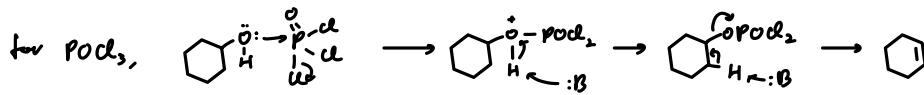
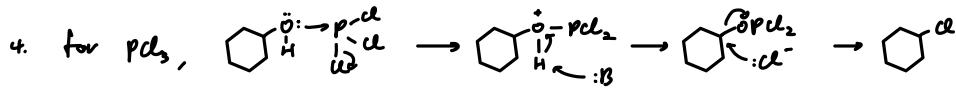


* 因為這張考卷有几題很難，所以額外拿出來寫詳解

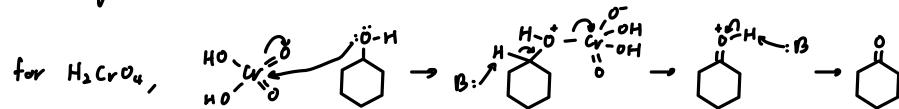


2. (a) Suzuki (b) Swern reagent



\therefore The polarity of OPoCl_3 group is bigger than that of OPdCl_2 group \therefore The $\beta\text{-H}$ in POCl_3 rxn. is more acidic withdrawing ability

\Rightarrow easy to withdraw \Rightarrow In POCl_3 rxn., it prefer to undergo E rxn., and in PdCl_3 , it prefer S rxn.



\therefore The withdrawing ability of $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$ group is so strong that $\alpha\text{-H}$ will be eliminated to stable the O on $\alpha\text{-C}$ \Rightarrow oxidation rxn.

7. (g) $\text{C}_6\text{H}_5\text{CH}_2^- \quad \therefore \text{HBr}$ in alkyne is anti addition \therefore the final product will be Z form.

