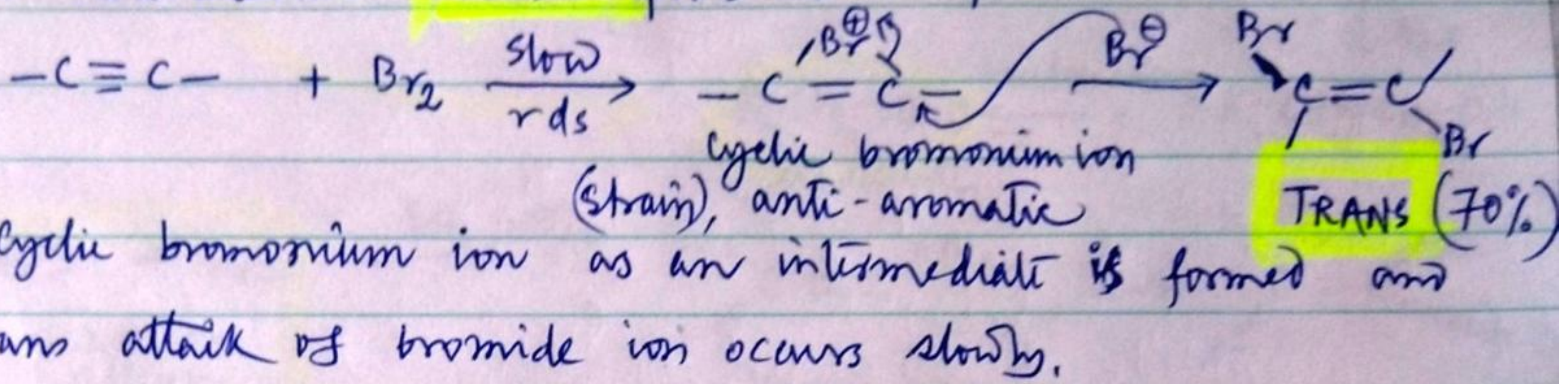


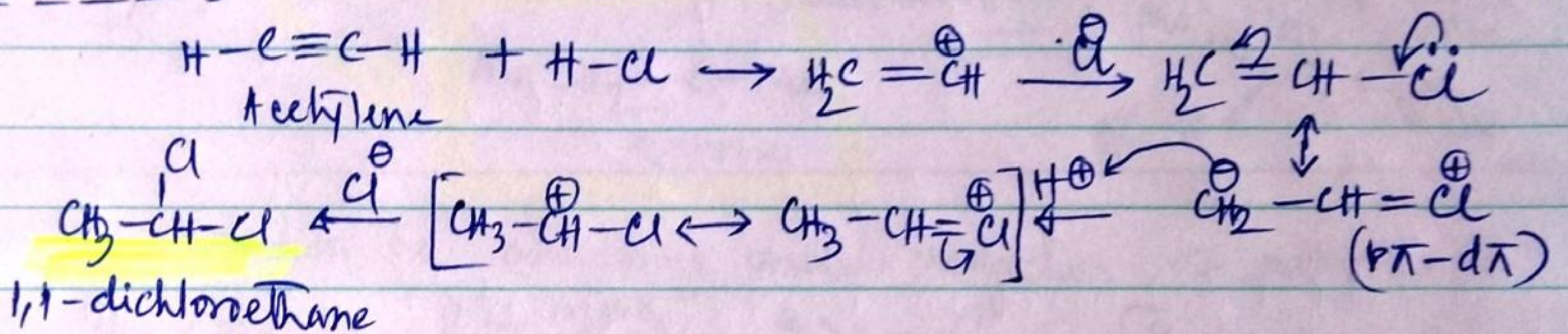
CEMA - SEM-III - $C \equiv C$ (alkynes) - SD Sir
 ADDITION TO $C \equiv C$ (ALKYNES)

Addition of halogens to alkynes:

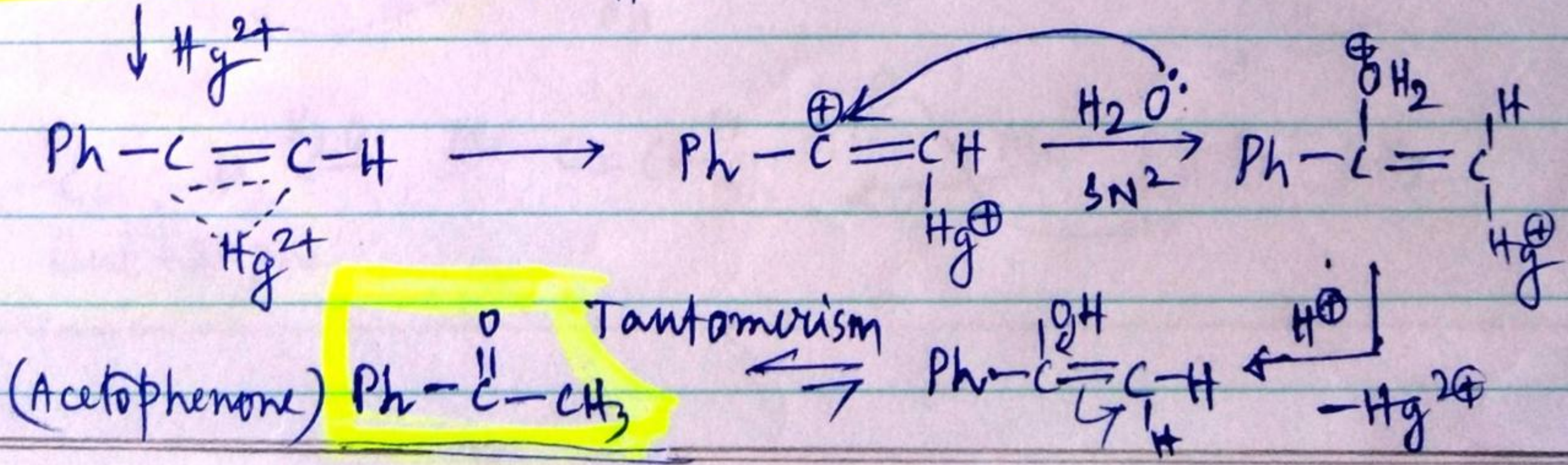
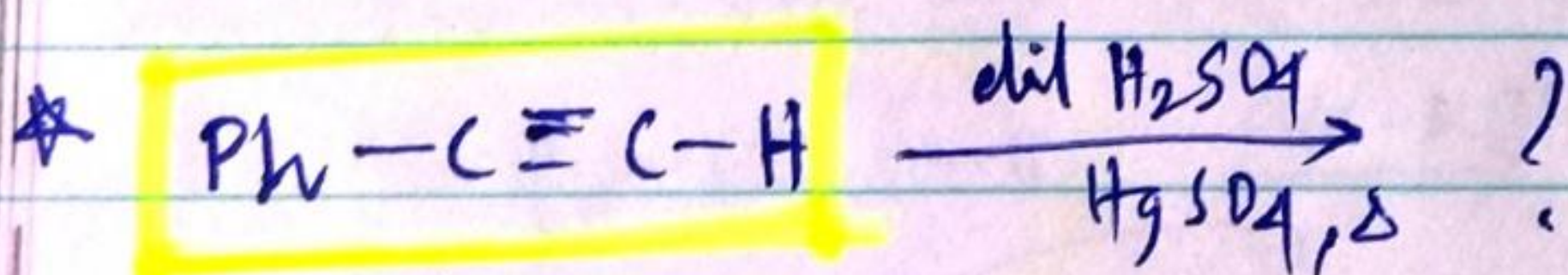
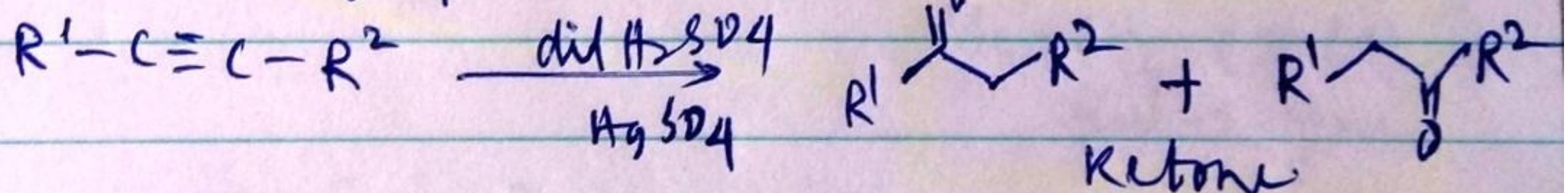
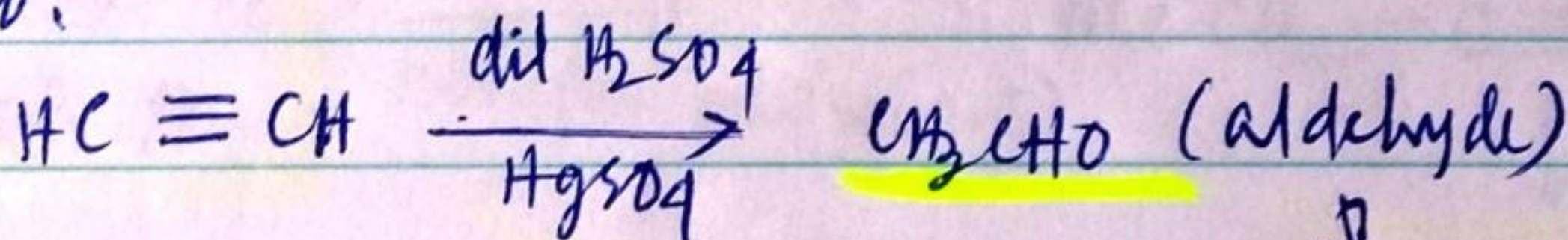
III Bromination: The addition of bromine to an alkyne is found to be stereoselective - **trans** product is predominant.



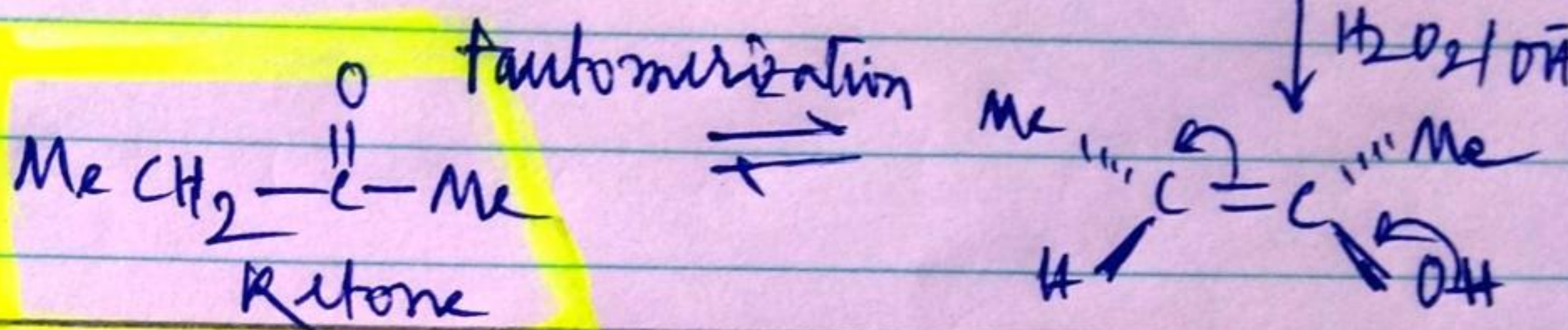
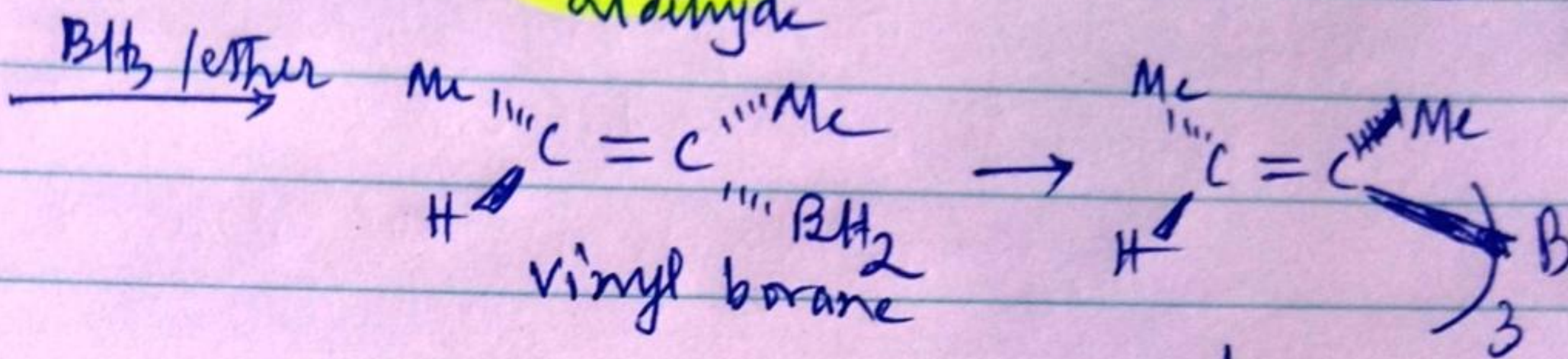
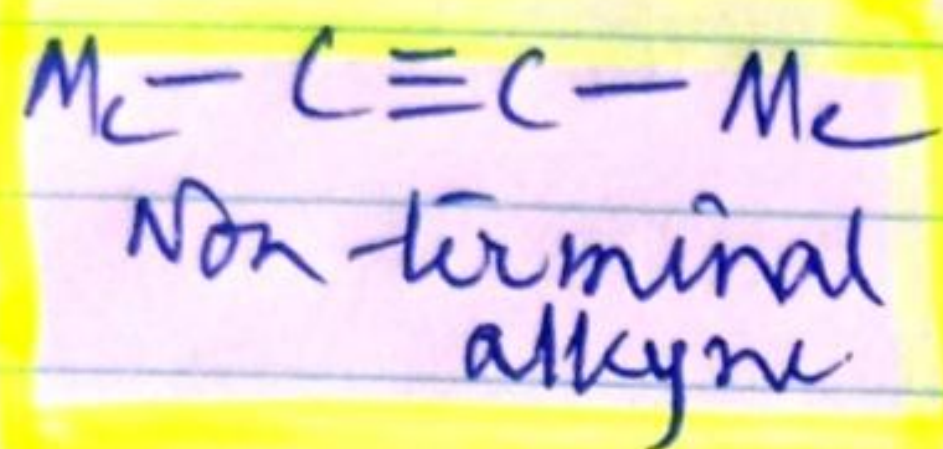
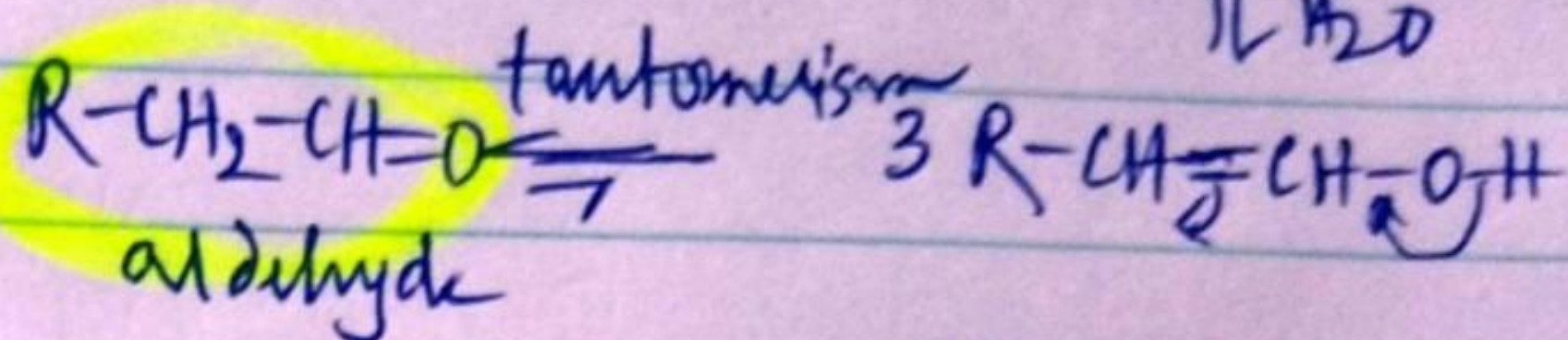
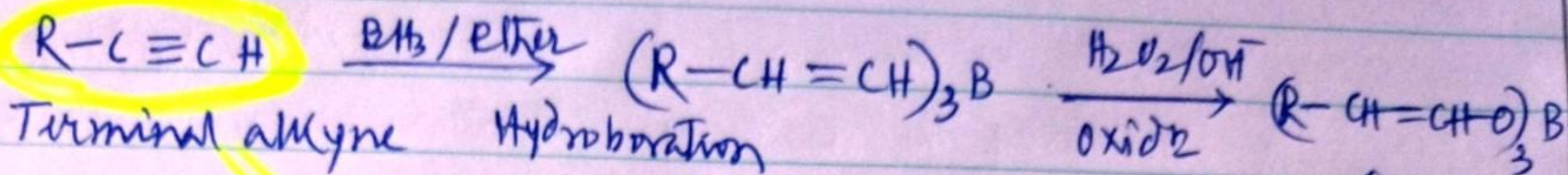
IV Hydrohalogenation:



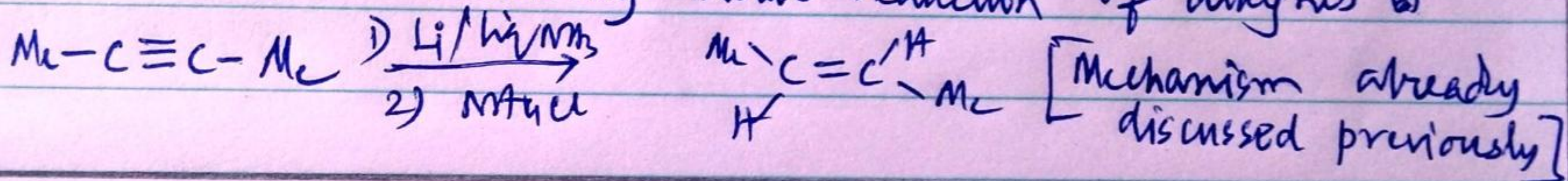
V Hydration: When an alkyne is treated with dil H_2SO_4 / $HgSO_4$ at 60-80°C, hydration occurs and a carbonyl compound is formed.



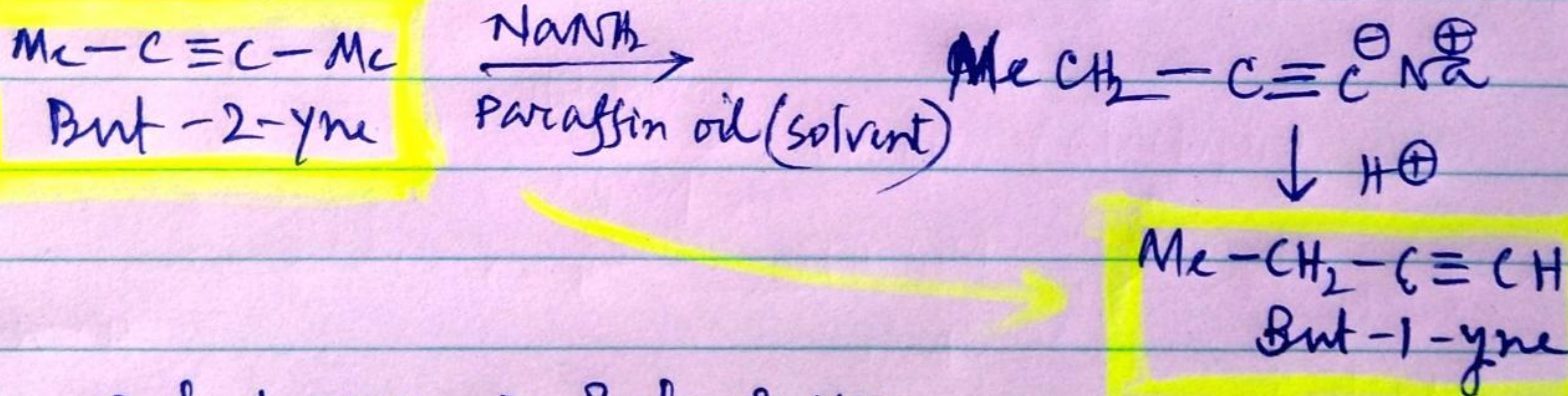
Hydroboration - Oxidation:



Birch reduction i.e. Dissolving metal reduction of alkynes to



Conversion: 1) But-2-yne \rightarrow But-1-yne



2) But-1-yne \rightarrow But-2-yne.

