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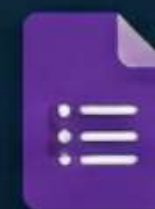


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CSIR NET JRF **AIR 01** के खुशी में

★★★ TOPPER'S CELEBRATION EDITION ★★★



NAME REACTIONS

A diagram illustrating a chemical reaction. It shows a ball-and-stick model of a molecule on the left, with arrows pointing to the word 'NAME' in large blue letters. To the right of 'NAME' is a flask containing orange liquid with an arrow pointing to the word 'REACTIONS' in large yellow letters. Further right is a benzene ring with an arrow pointing to it. Below the main title, there are chemical structures including a carbanion and a carbonyl group.

Carbanion and It's Reactions

LECTURE 01

Complete Chapter Free 🔥





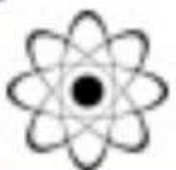
Topics to be cover

#01



- 1) Introduction to Carbanions
- 2) Generations of Carbanions
- 3) Reactions of Carbanions



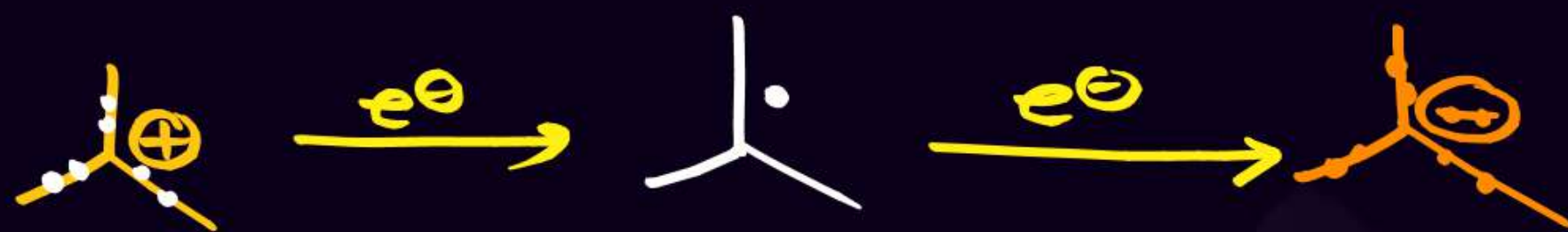


Revision

- Carbanion
- Enolates
- Alkylation
- Enolate Equivalent.
- Michael.
- Aldol Type
- Aldehyde
- Alpha Halo.
- Fragmentation.



Introduction to Carbanions



→ Trivalent

→ 6 e⁻'s

→ +ve charge

→ Carbocation

→ e⁻ deficient

→ Trivalent

→ 7 e⁻'s

→ No charge

→ Free Radical

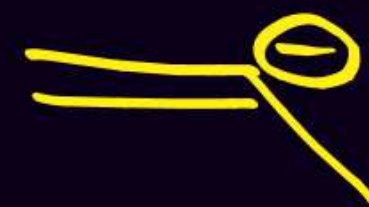
→ Trivalent

→ 8 e⁻'s

→ -ve charge

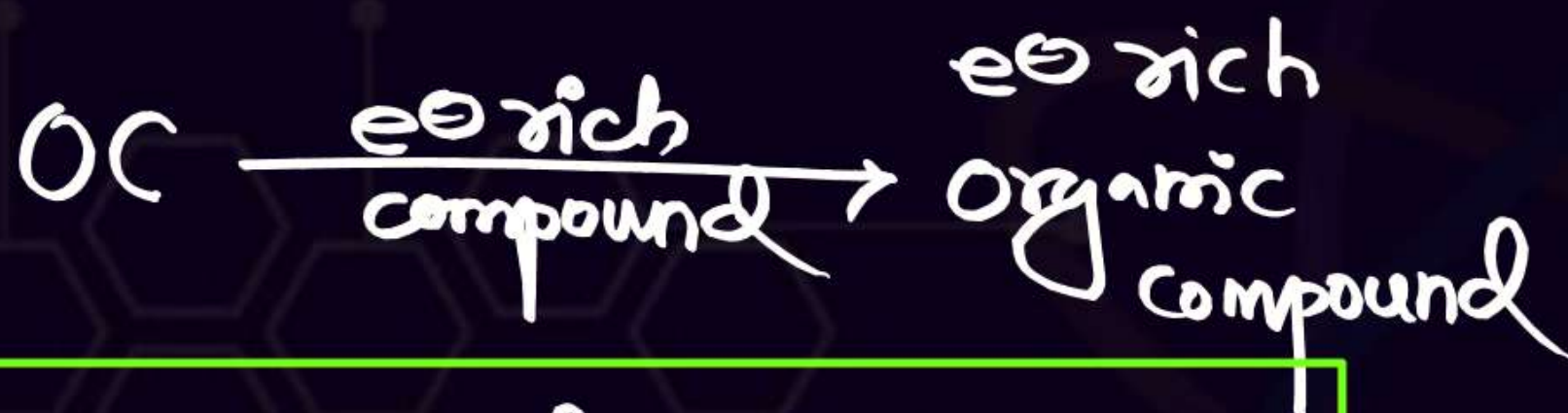
→ Carbanion

→ e⁻ rich





Generations of Carbanions

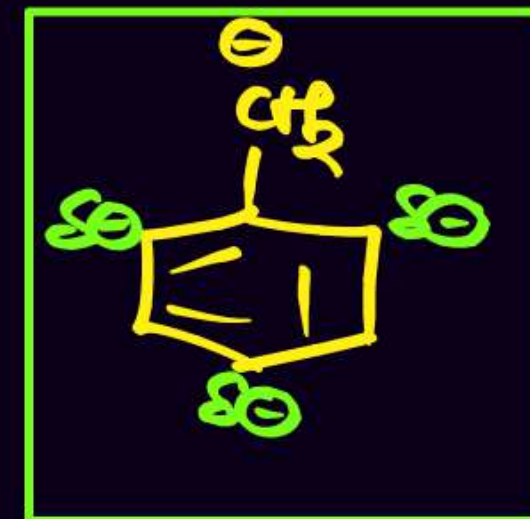




Introduction to Carbanions

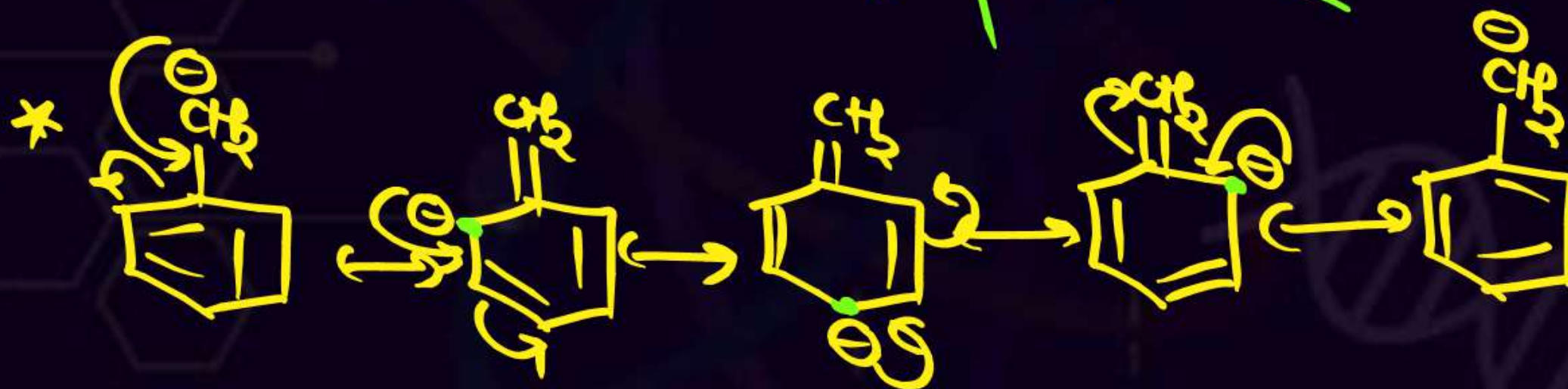
* Stability of Carbanion $\propto -I, -R, -M$
 $\propto \frac{1}{+I, +R}$

$sp > sp^2 > sp^3$
 EN \uparrow ses.

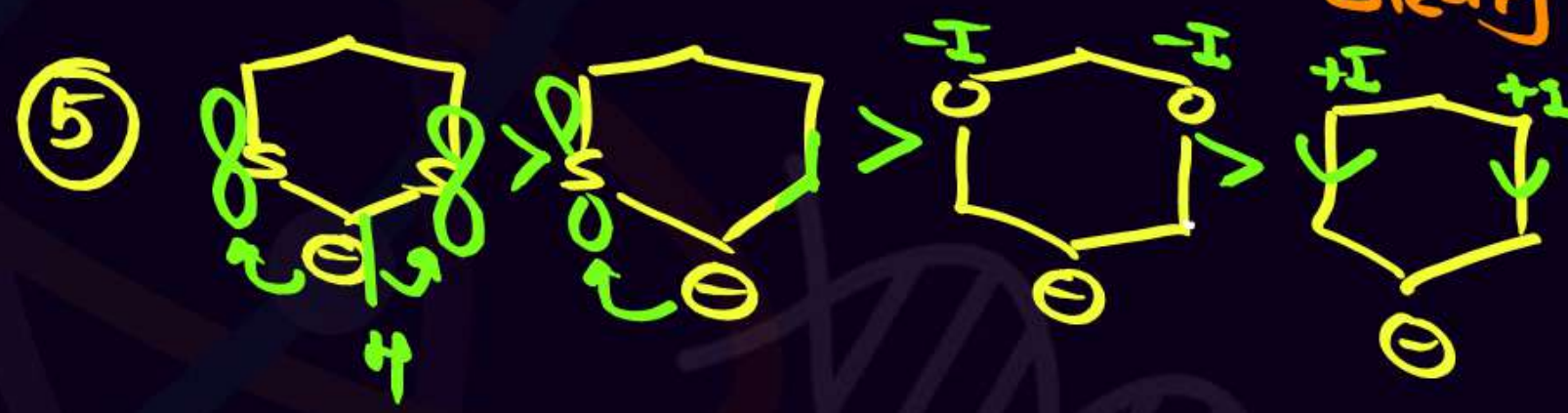
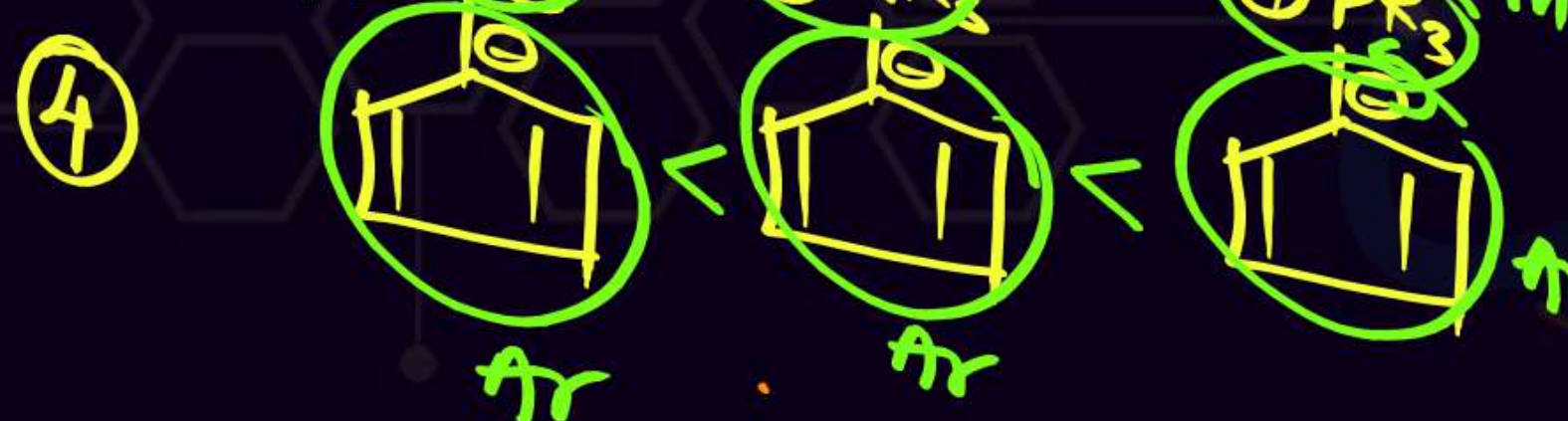
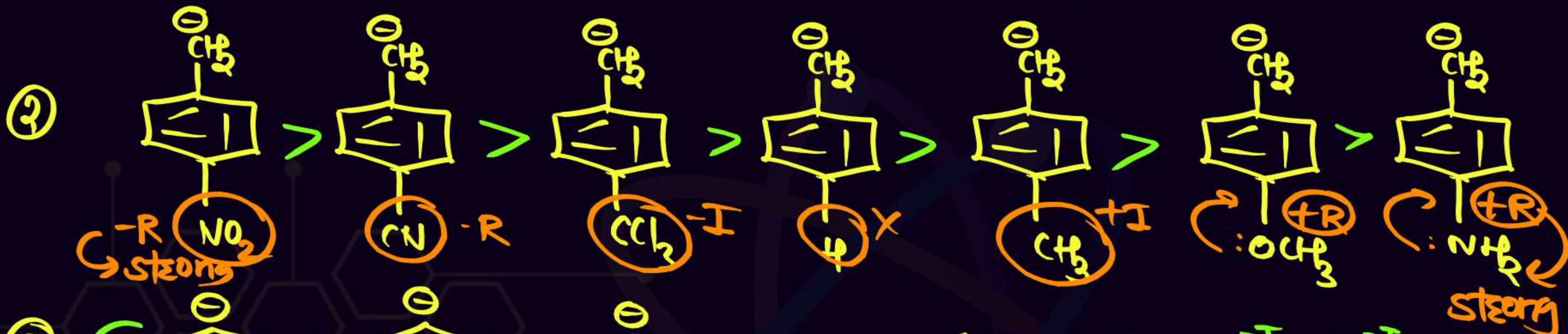
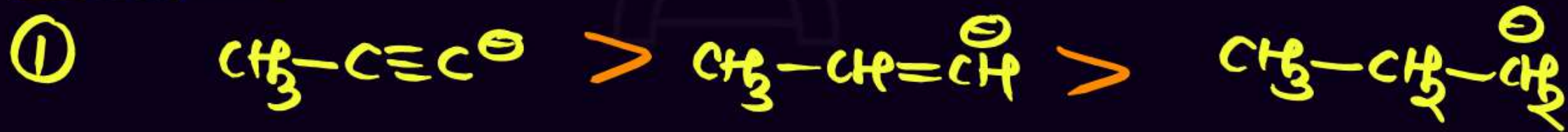


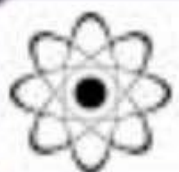
Aromatic $\rightarrow -M > -R > -I > \otimes > +I > +R >$ Anti-Aromatic

↓
 stabilize
 by empty
 orbital

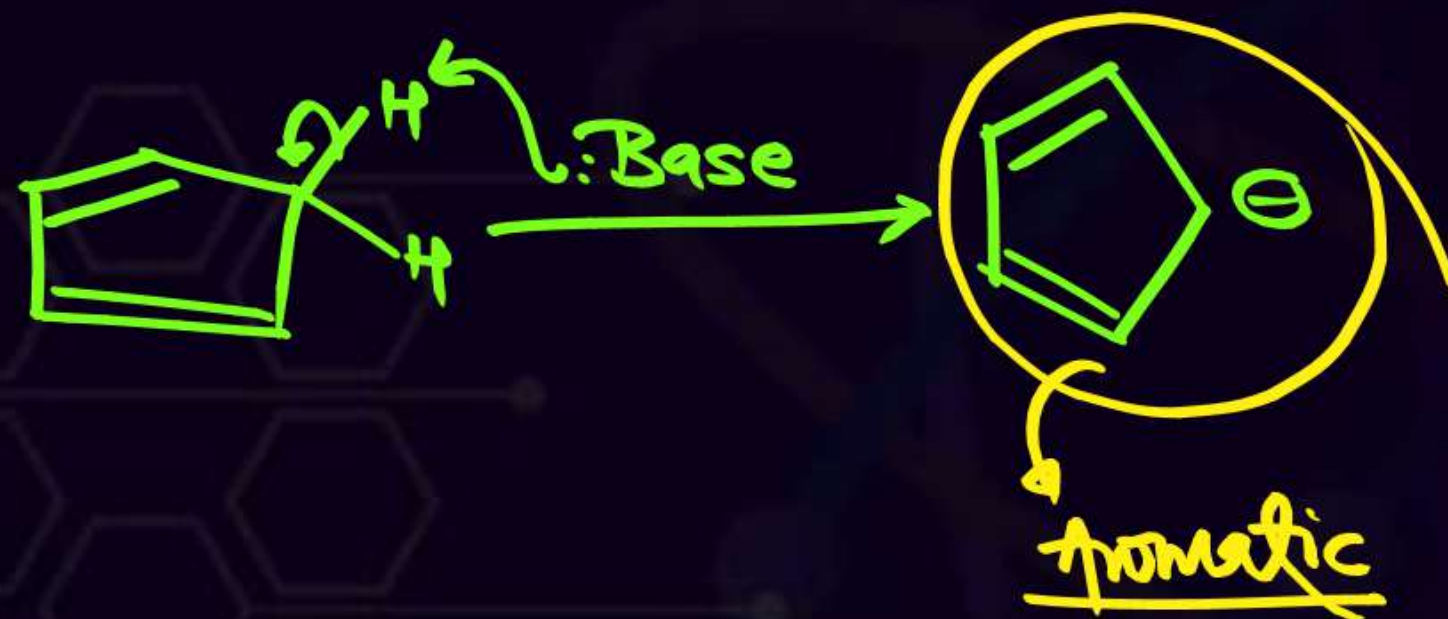


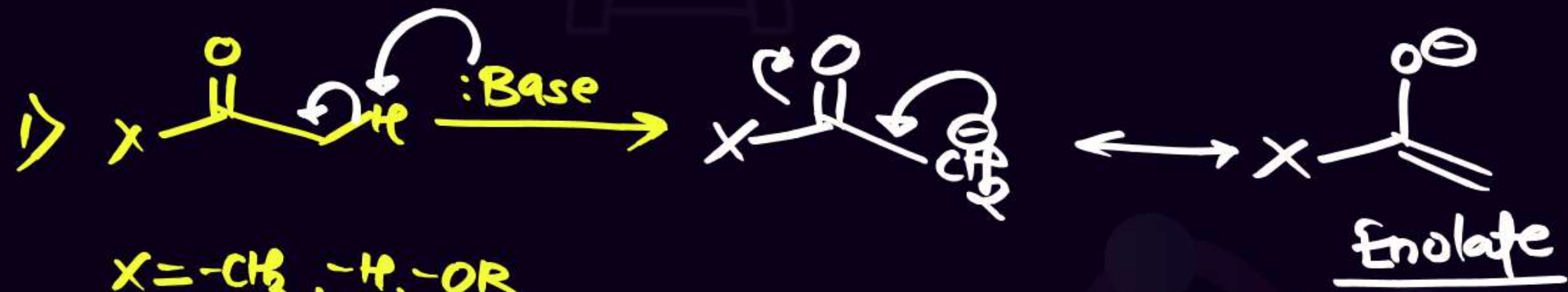
Examples :-



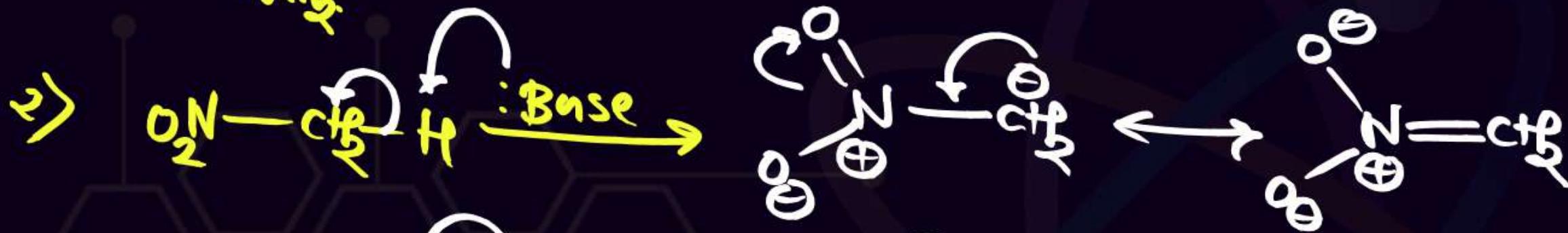


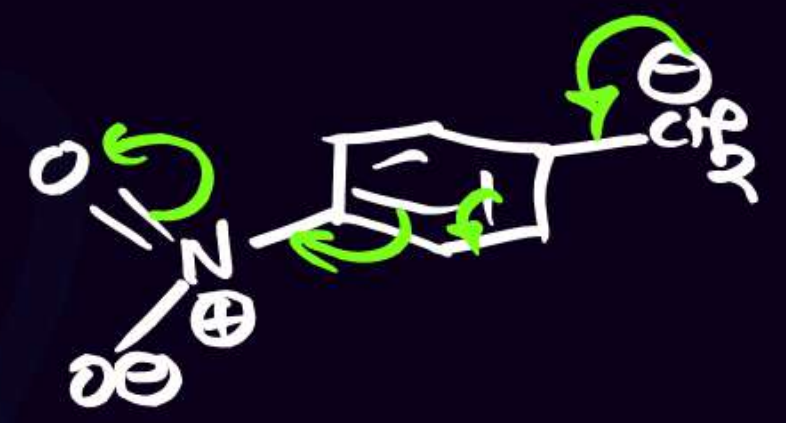
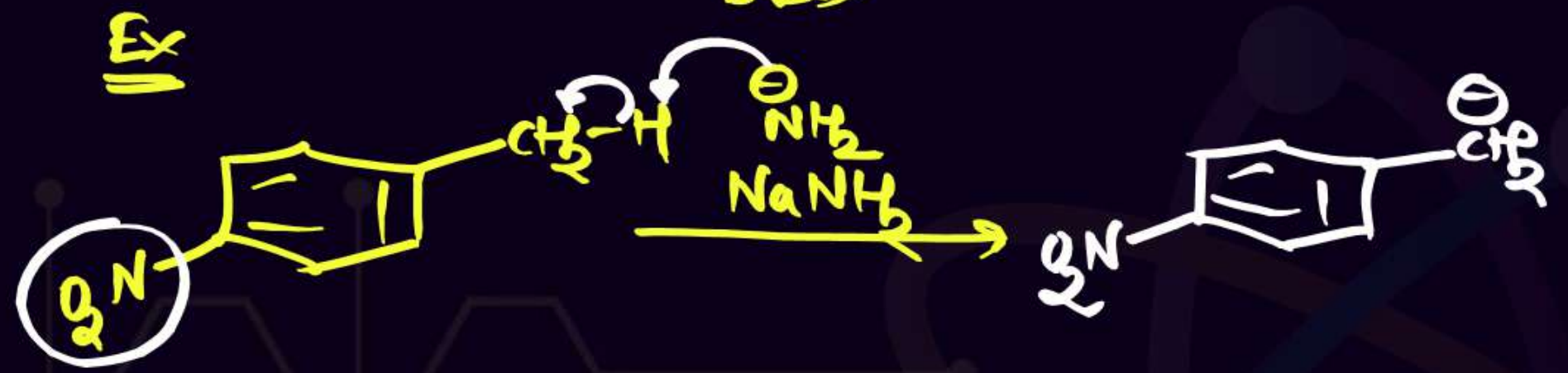
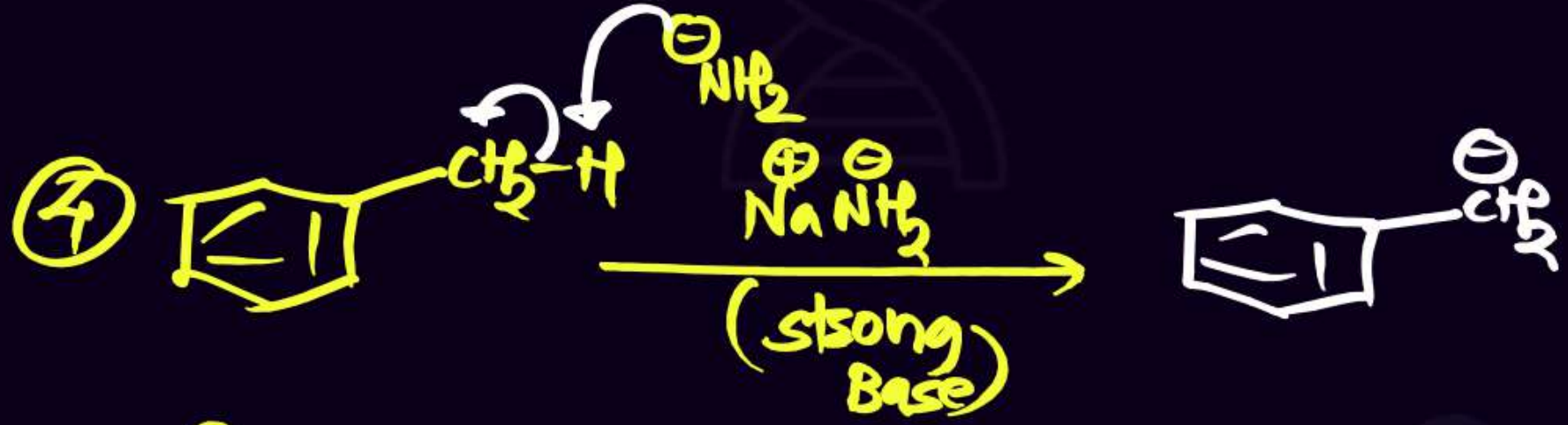
Generations of Carbanions

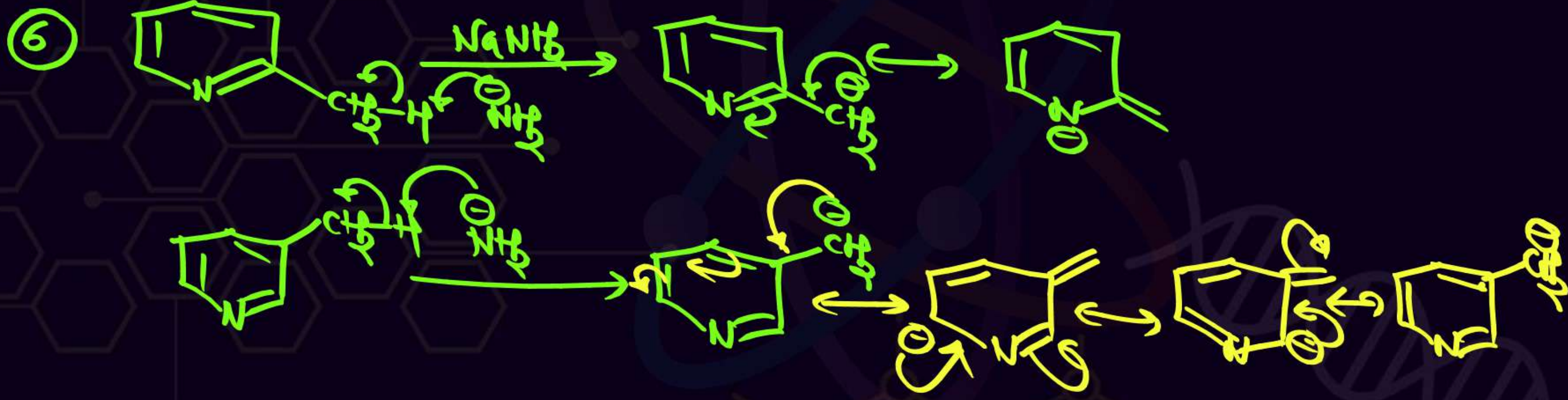
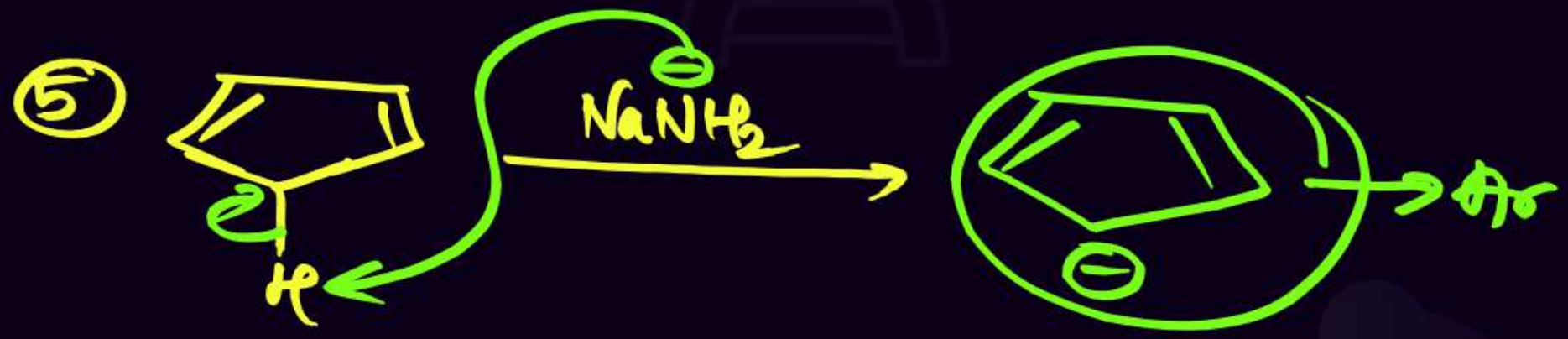


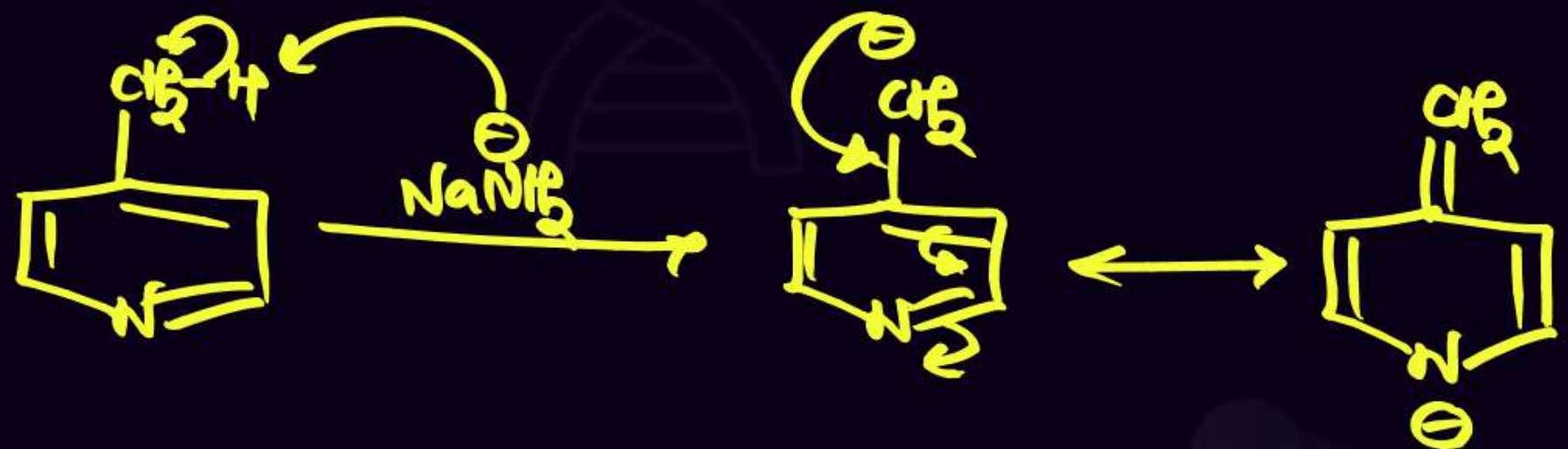


$\text{X} = -\text{CH}_3, -\text{H}, -\text{OR}, -\text{NH}_2$

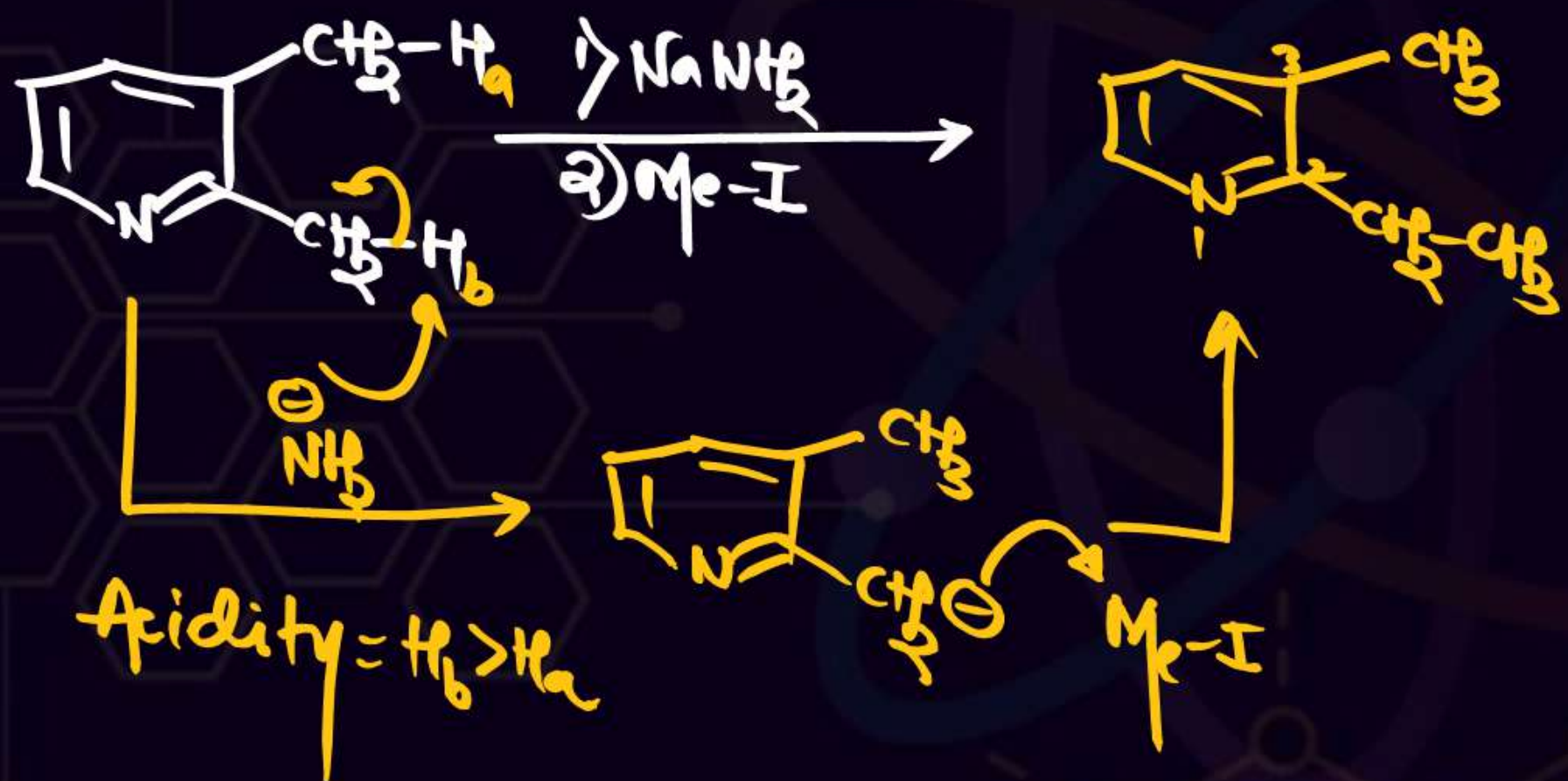




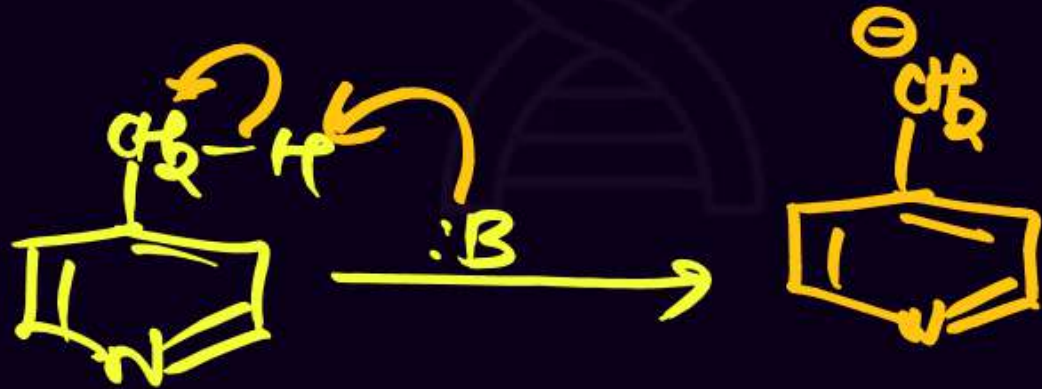




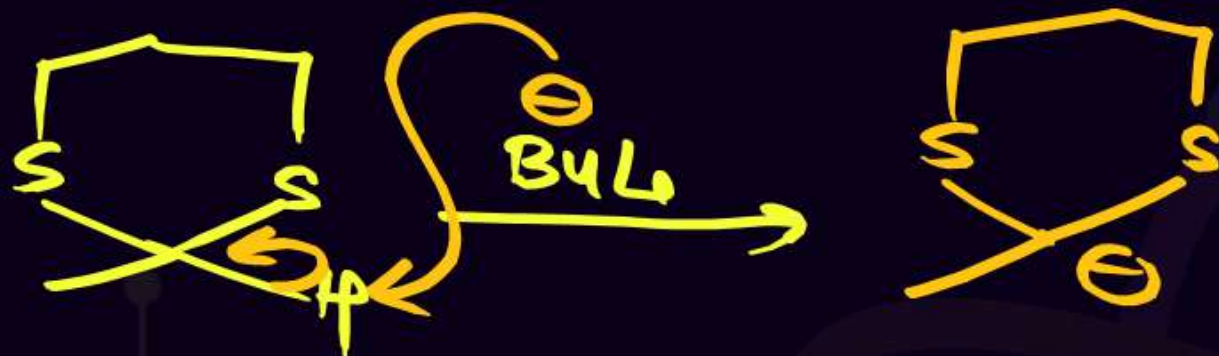
JAM



7



8



9



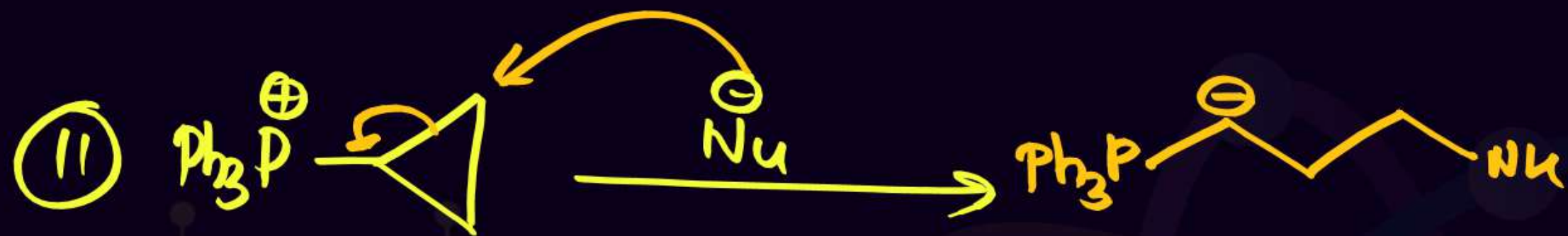
P-ylide



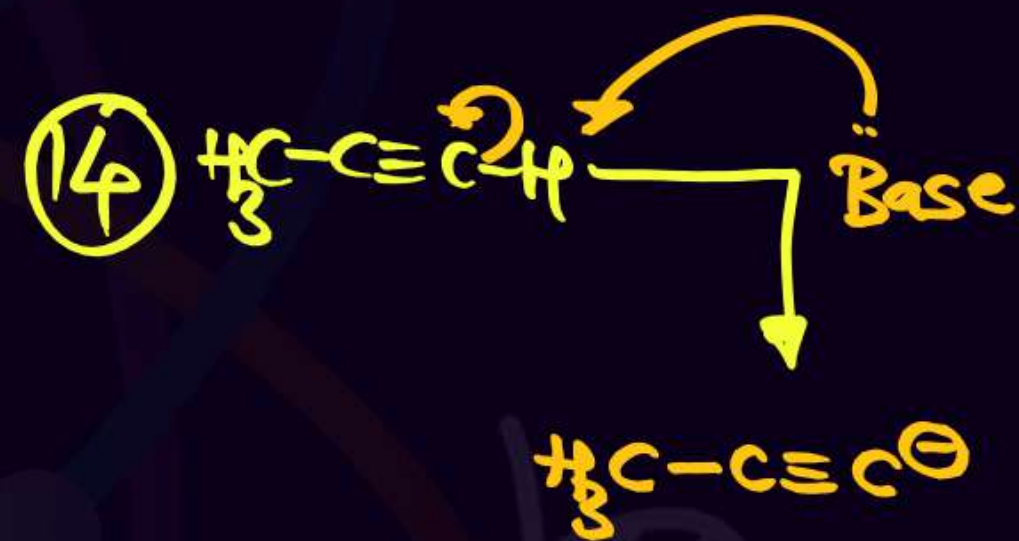
S-ylide

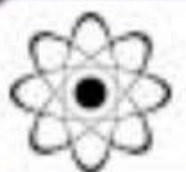


N-ylide

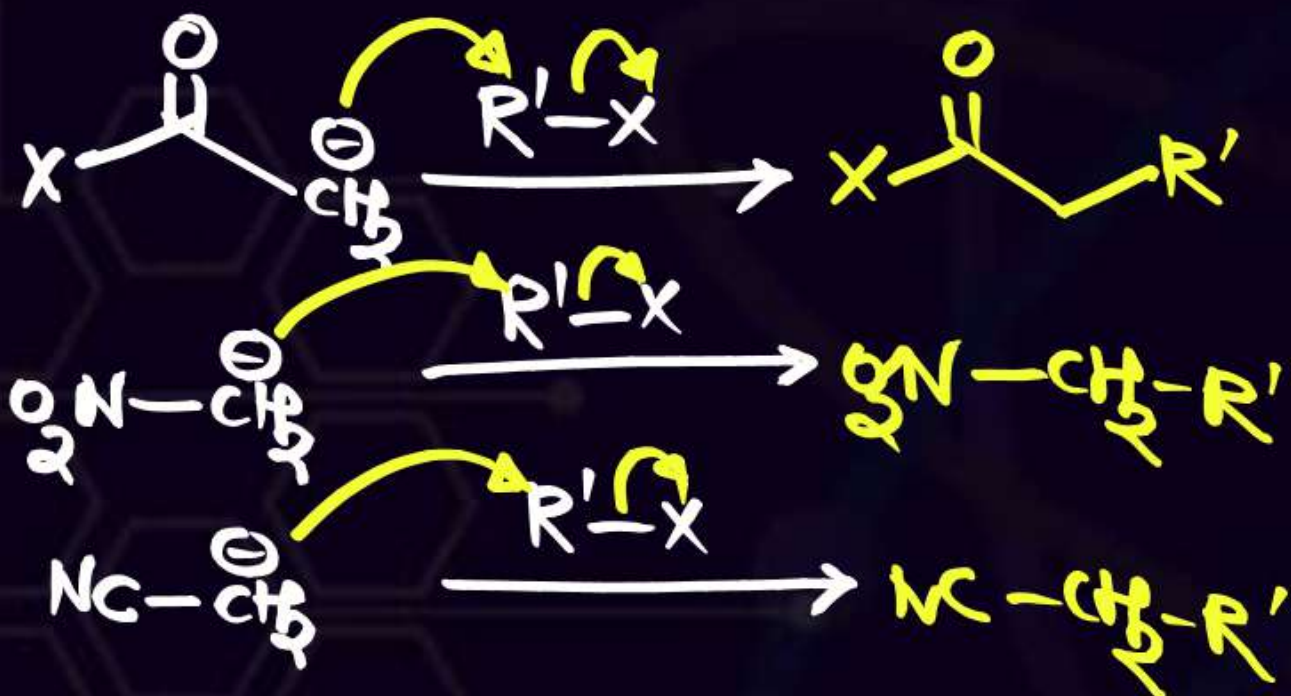


* By using Metals:-

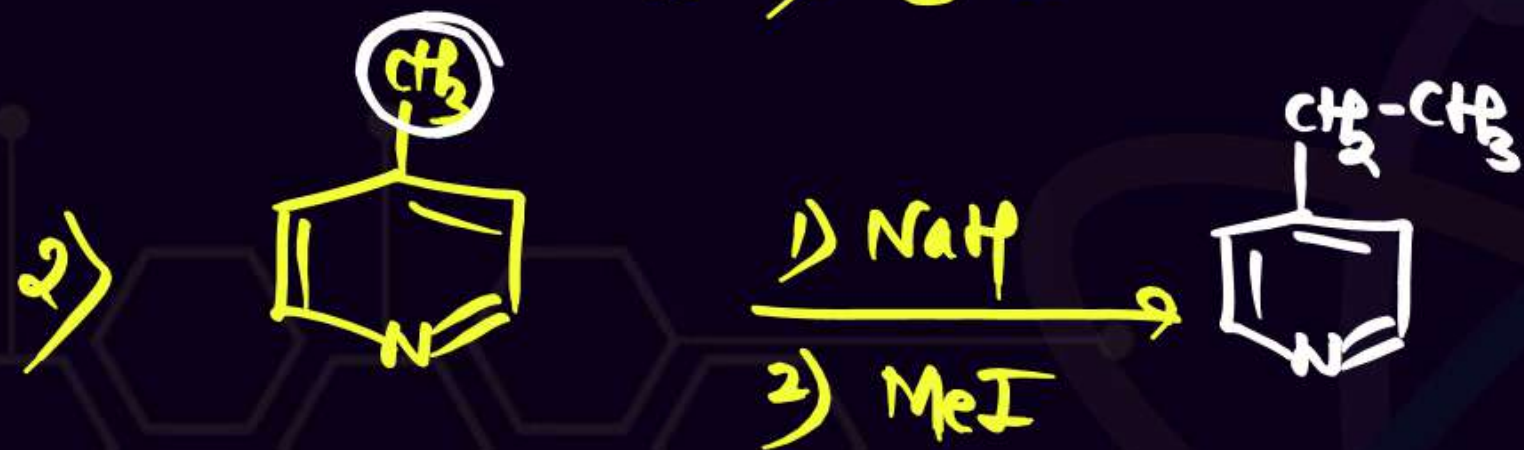
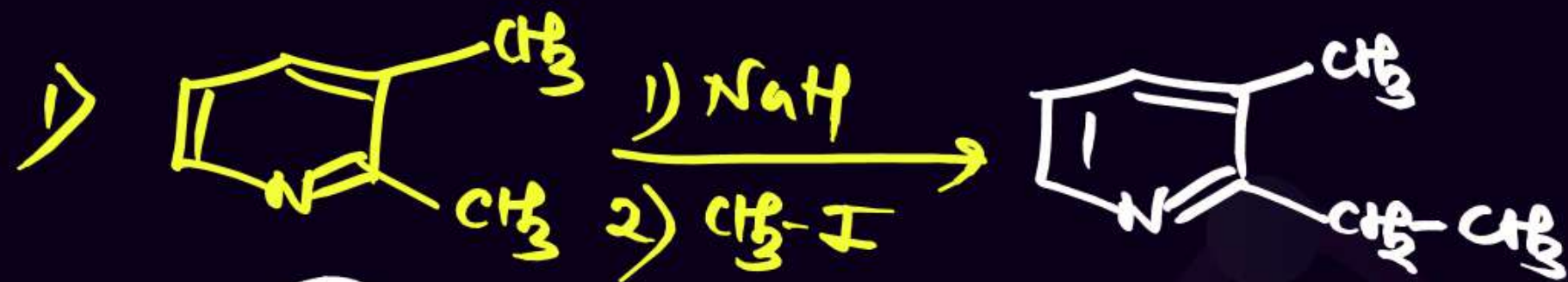


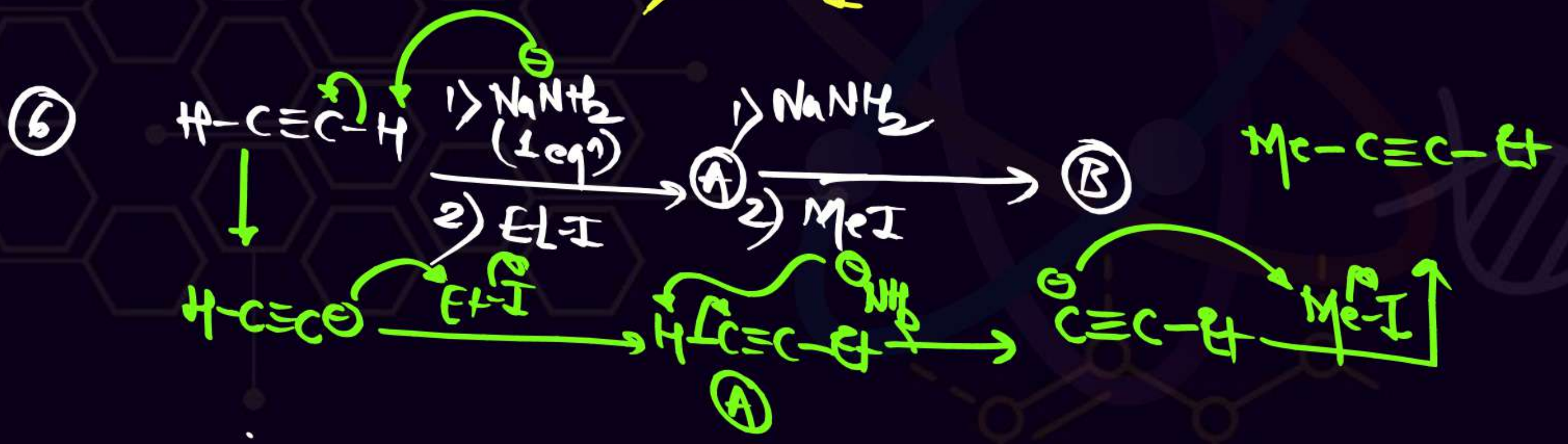


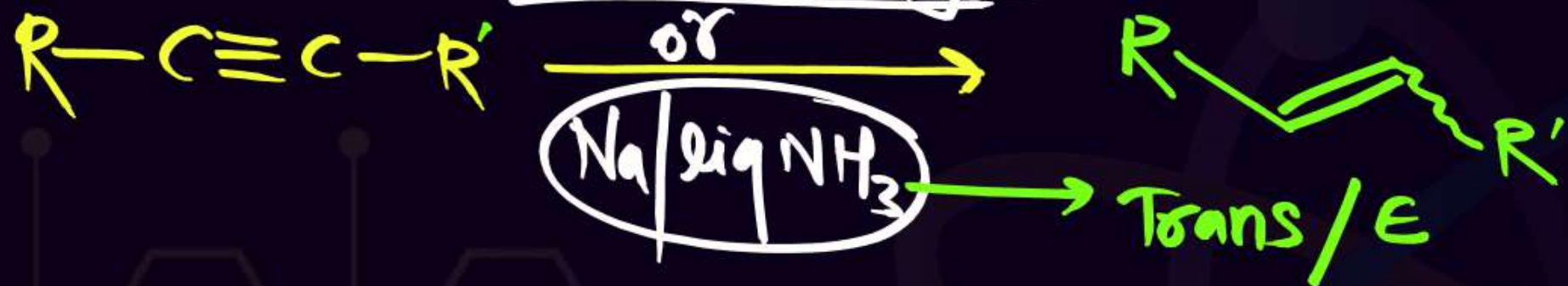
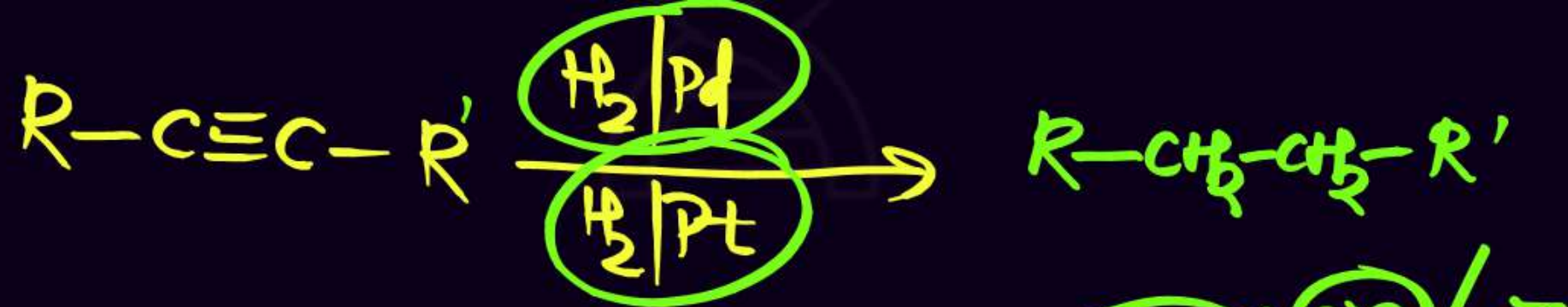
Reactions of Carbanions



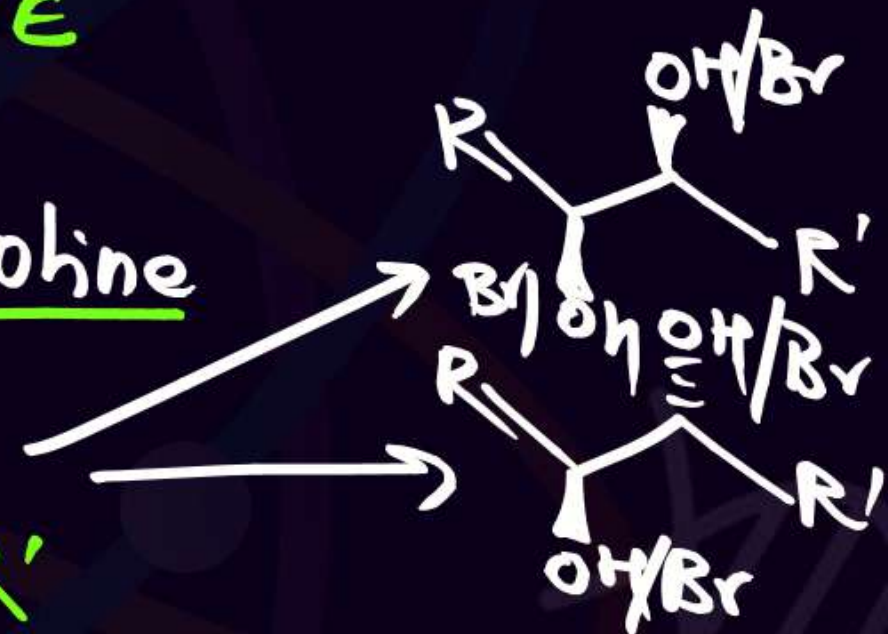
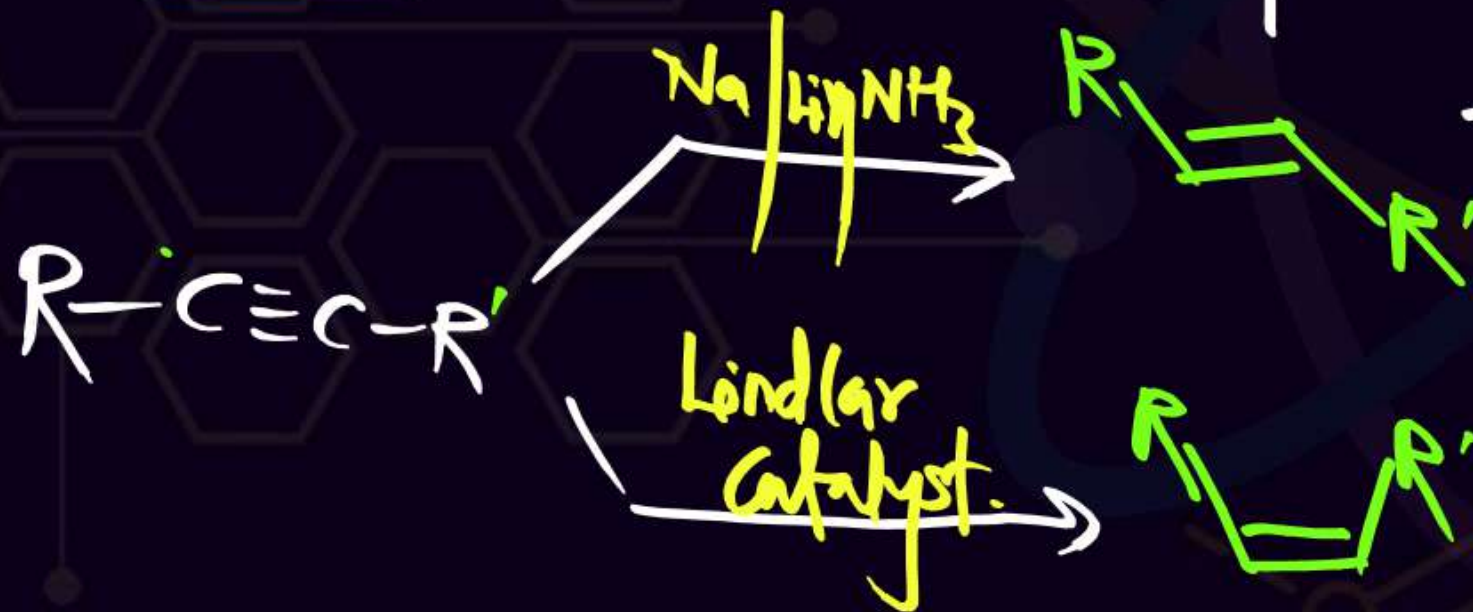
Examples :-

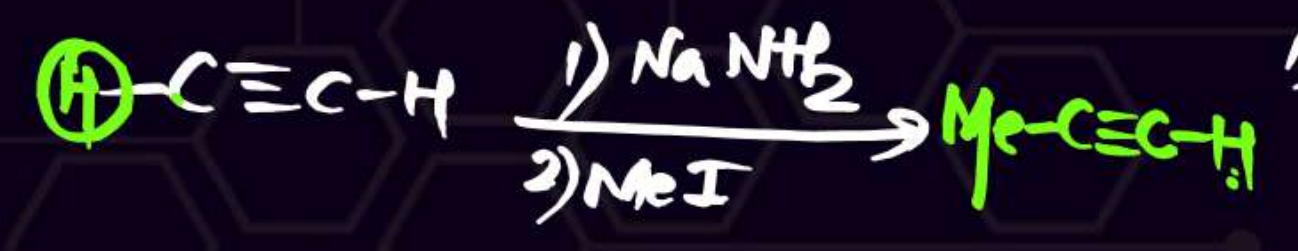
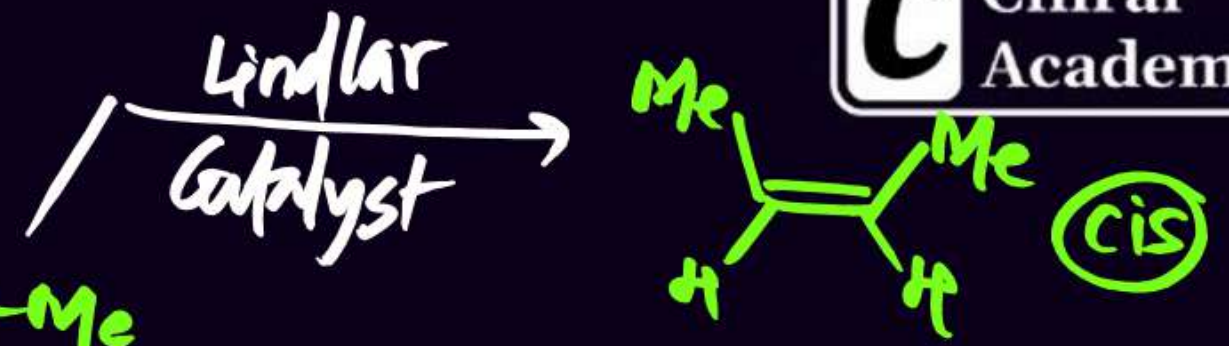
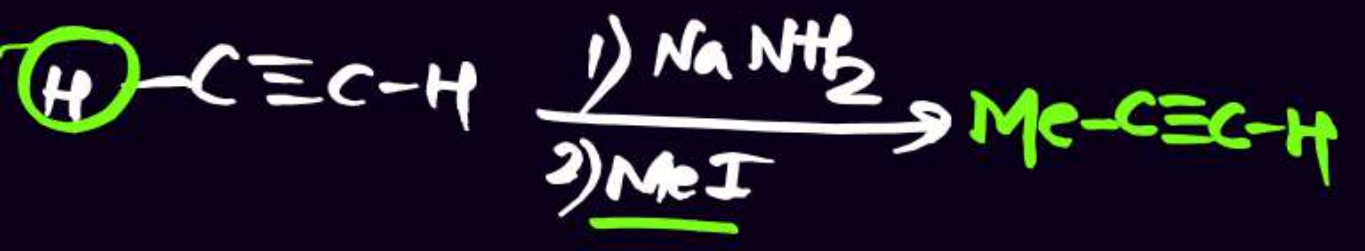


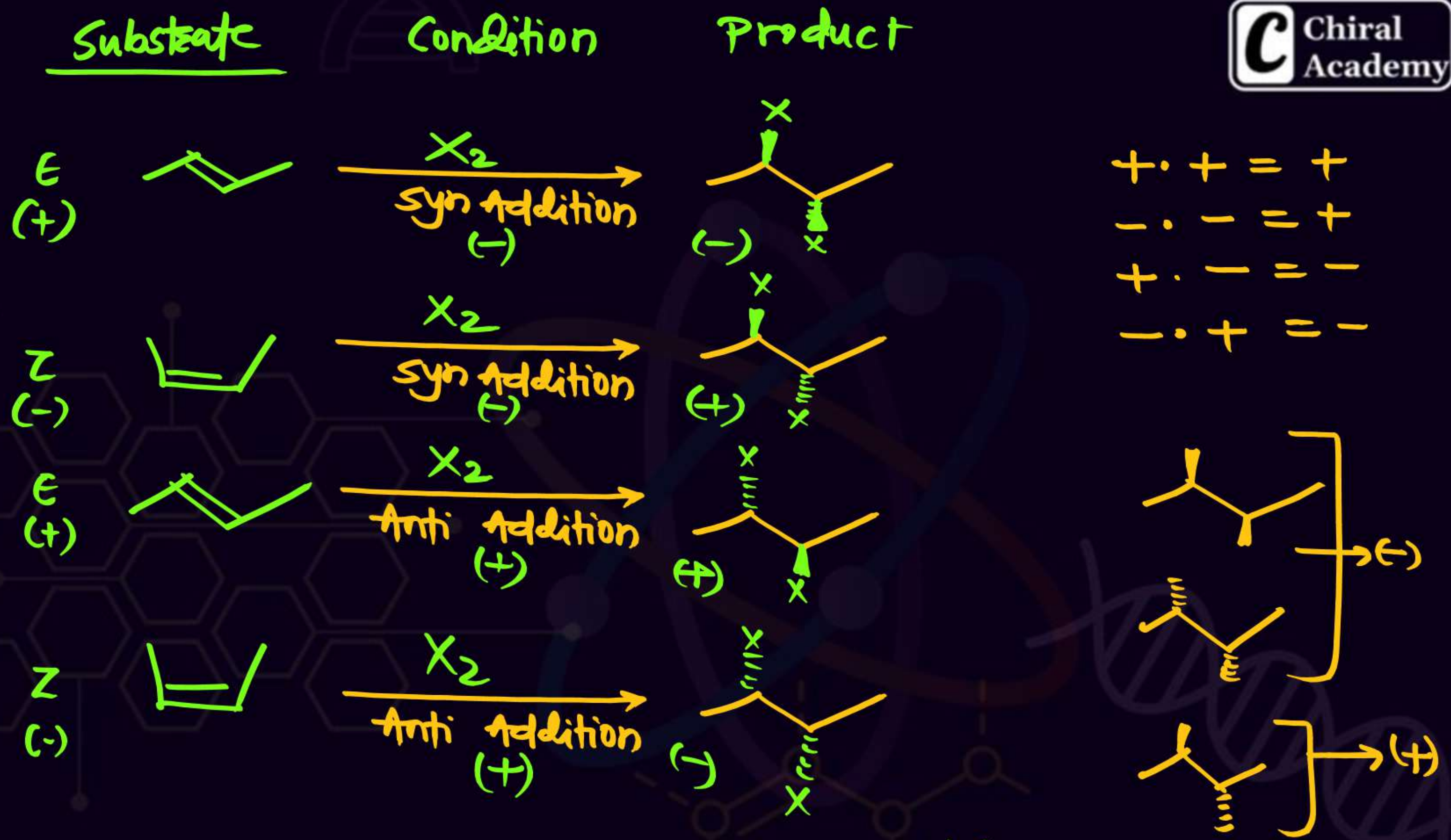




Lindlar Catalyst = H₂, Pd, CaCO₂, quinoline

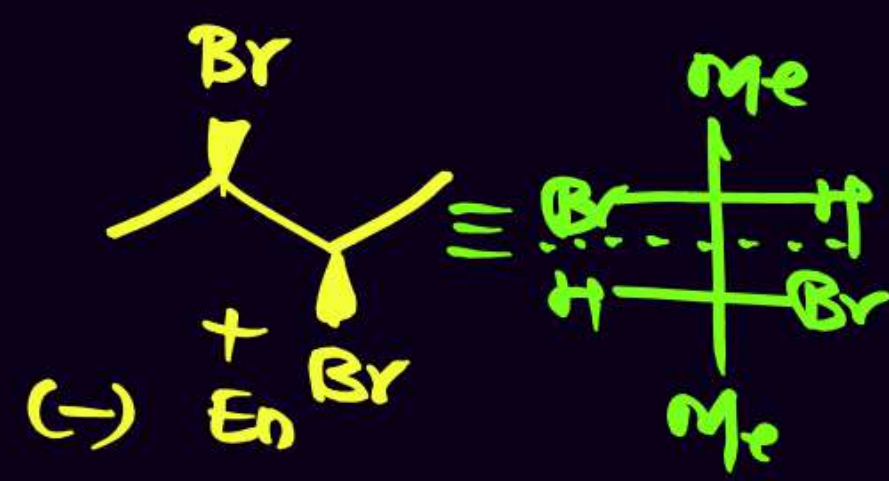
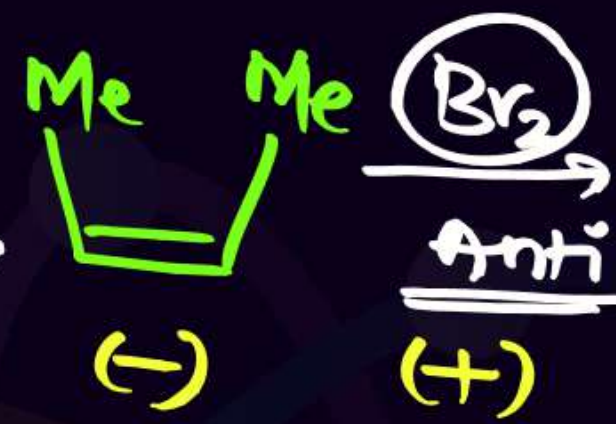




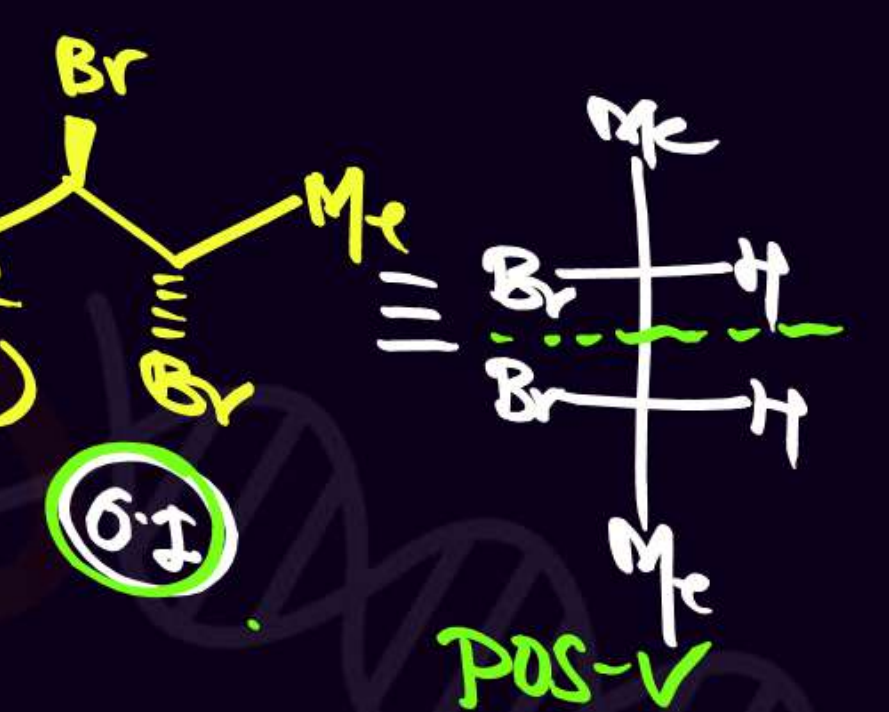




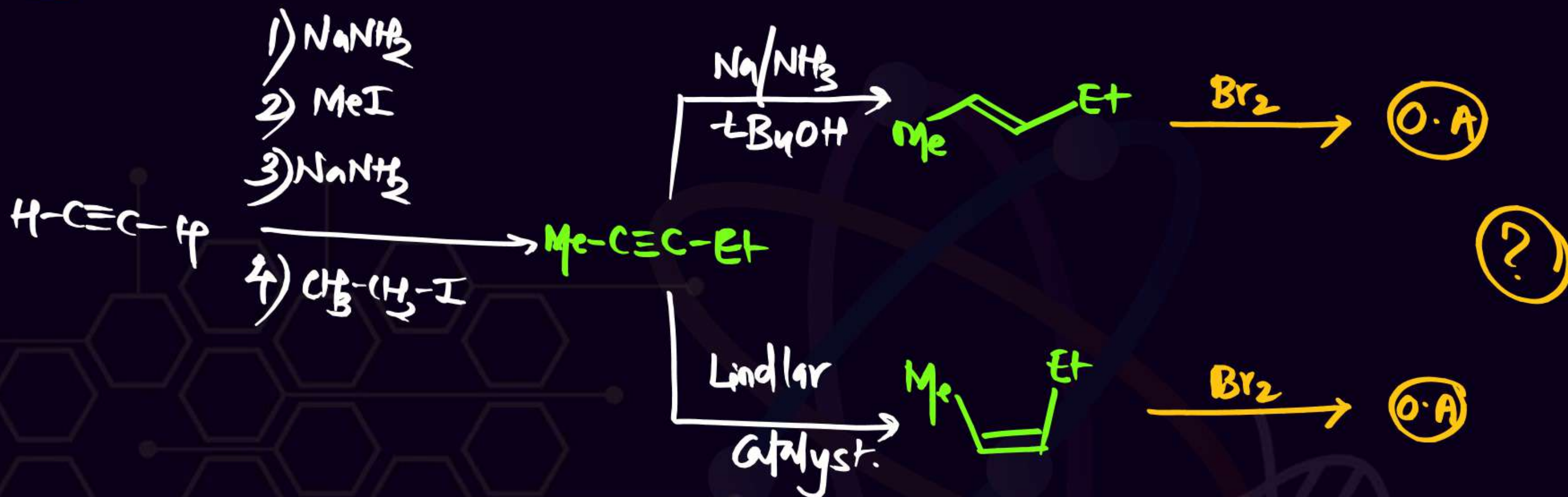
Lindlar Catalyst

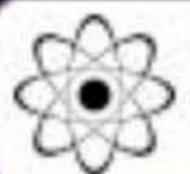


Na/NH_3 / $t\text{BuOH}$

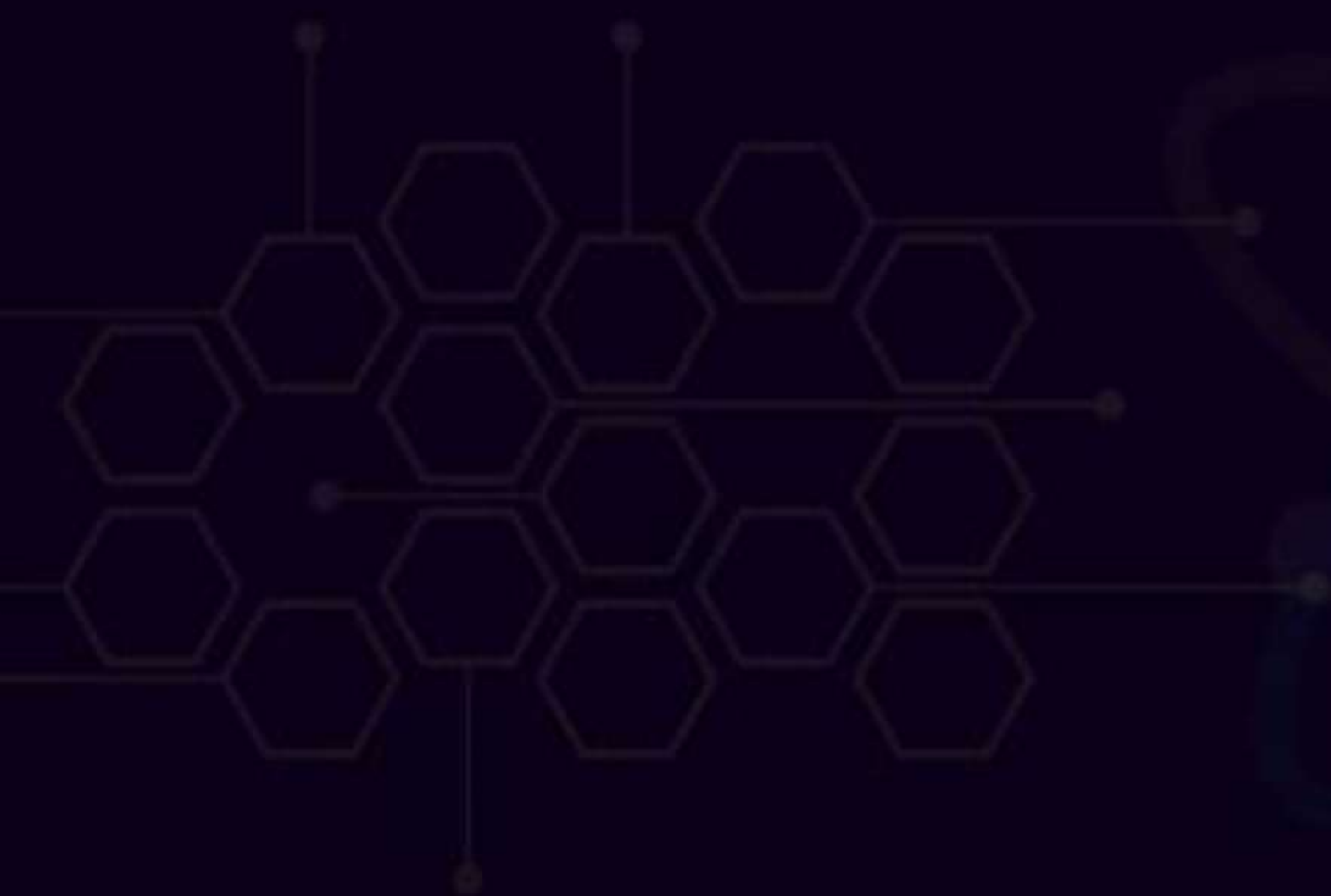


H.W.





SUMMARY



The background features a dark laboratory setting with several glass beakers and flasks. The central focus is the text 'Thank you' in a white, cursive font. Surrounding the text are various scientific illustrations: colorful atomic models with elliptical orbits, ball-and-stick molecular structures, and test tubes containing blue and purple liquids. The overall aesthetic is clean and professional, emphasizing a scientific theme.

Thank you