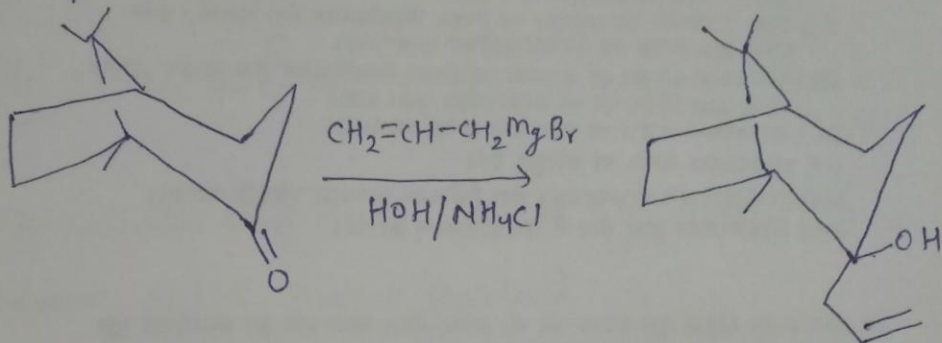


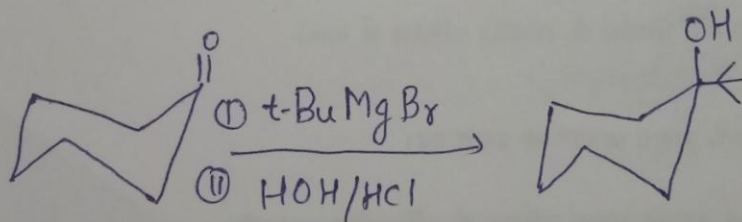
Grignard Reagents

Reactions with cyclic ketones:

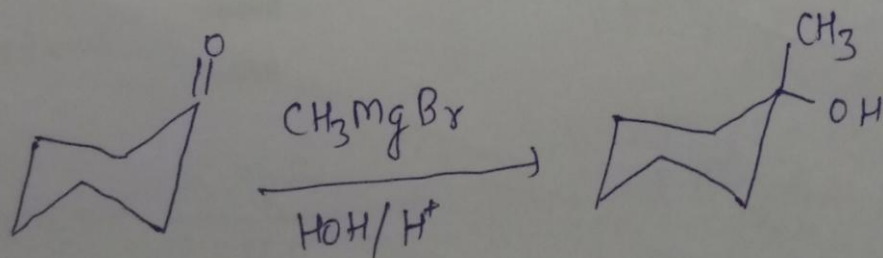
⇒ attack from less hindered face of the carbonyl group.



⇒ If R of Grignard Reagent is bulky then the OH group is situated at axial position

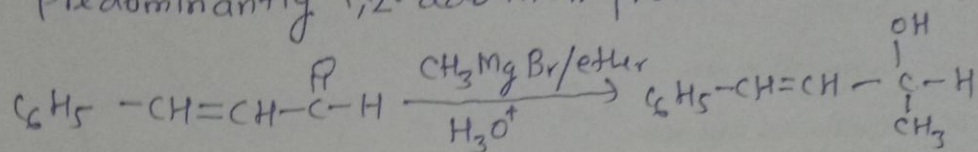


if R is not bulky then OH group is situated at equatorial position

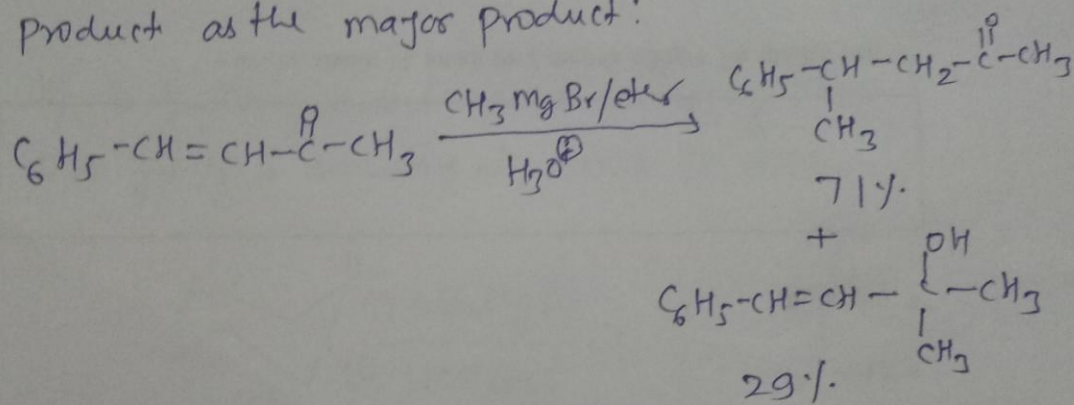


Reaction with α - β -unsaturated aldehyde and ketone:-

⇒ In General, α - β -unsaturated aldehyde gives predominantly 1,2-addition product.



⇒ α - β -unsaturated ketone gives 1,4-addition product as the major product:



Reaction with ketenes and isocyanates:-

