=> 2R-X + Na [diedus]> R-R + 2 Nax => wurtghern => 2 (x + Na diether () () + 2 Nax => OTX+R-X+2Na diethis> OR+2Nax Nucleophilic Substitution Reaction $\Rightarrow R - x + H_2 0 \longrightarrow R - 0 + H + H \times |\Rightarrow R - x + Ay c N \rightarrow R - N c + Ay \times R$ >R-X+KCN -> R-CN+KX => R-X+AgNO2 -> R-GAND2 + AgX > R-x+R-0=Na detail R-OR + Nax (williom synthesis) # Prepy ether 5 odlim alkoride Types of Nucl, Substi, Rex. a) SN' b) SN2 [Nucleophilic substitution enimollecular] [Nucleophilic substitution Bimolecular] * A compound is optically active if it ridates plane polarized light SN reaction · First order Reaction occurs in Plone Polorized 5 obvent The formation of c⁺ in RDS of SN' reaction occurs in 2 steps
Rate & [R-x] & stability of c⁺
SN' react is exothermic in nature => low temp -> rate1 * Tompounds hoving chiral compound are optically acting CO. UK # compound hoving 200 more chiral compound is optically acting CO. UK mirror image. Michney [Penoted by (+)] * Mixture of two enontioners Beau hace 5Nº reaction 5N² reaction · Second ordination secure belong the secure · Formation of Tronsition Stational Istep. Rate & [Nu-] [R-X]. No formation of c+ · SN'reaction is exothermic => Low Temp > rater · Only innersion takes place no Retention.