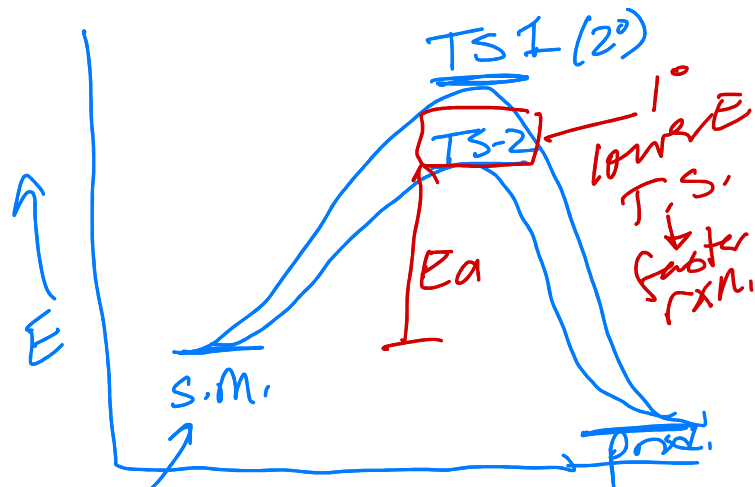
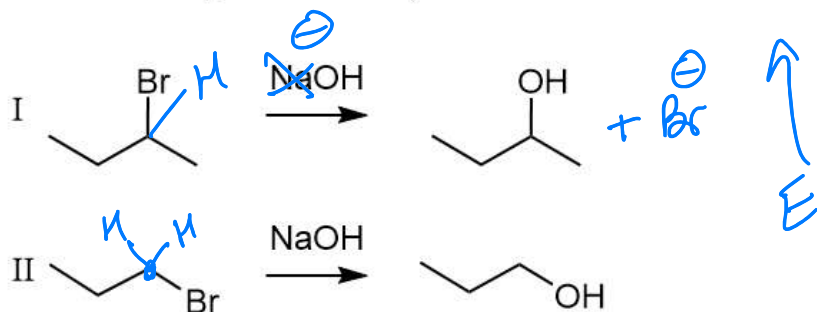


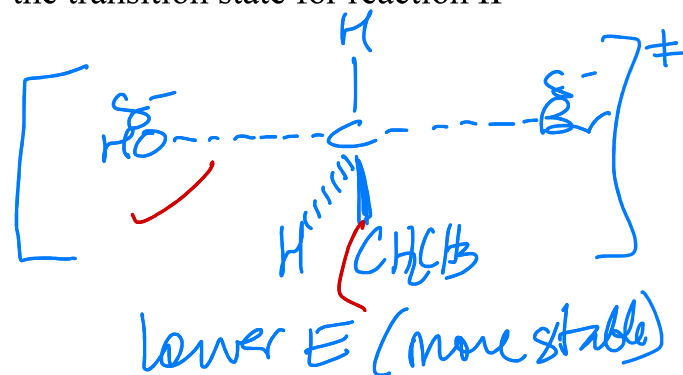
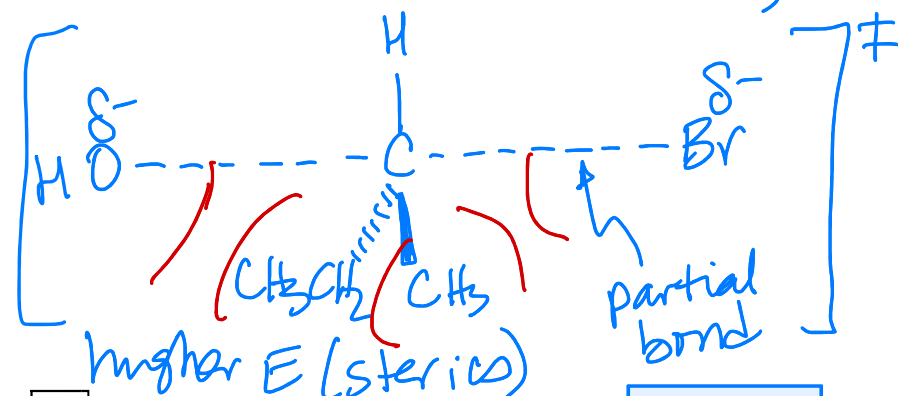
6

Which of the following is the FASTER reaction? Explain briefly.



Draw the transition state for reaction I (2°)

Draw the transition state for reaction II



7

Categorize each reagent as a **strong** nucleophile, a **weak** nucleophile, or **not** a nucleophile:

Nu: electron-rich!

K⁺ CN⁻ Strong Nu:	Na⁺ OMe⁻ Strong Nu:	H⁺ O⁻ H₂O weak Nu: (no backside attack)	K⁺ OH⁻ Strong Nu:	(CH₃)₂CHCH₂CH₃ alkane NOT a Nu:
I⁻ Strong Nu:	CH₃ OH weak Nu:	Neutral :NH₃ Strong Nu:	HCl Strong acid NOT a Nu:	EtONa Strong
Et NH₂ Strong	Na⁺ SH⁻ Strong	ROH CH₃CH₂OH weak Nu:	NH₄⁺ no LP NOT a Nu:	ROH iPrOH weak

Klein section 6.7, Skillbuilder 6.2