## (35) **Today**

Section 7.7 Electrophilic Addition Reactions

Section 7.7 - 7.11 Electrophilic Addition Reactions

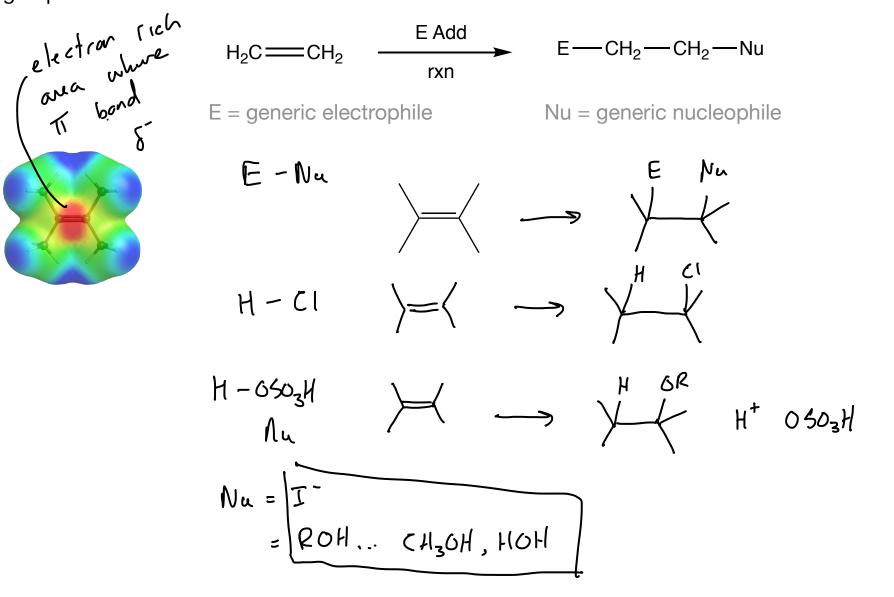
## (37) Second Class from Today

Section 8.2 and 8.3 Halogenation and Halohyrins

Test 3 corrections due Dec 13

#### Alkene Reactivity

The reactions are called <u>electrophilic additions</u> because the are initiated by an electrophile and two groups/atoms are added across the double bond.

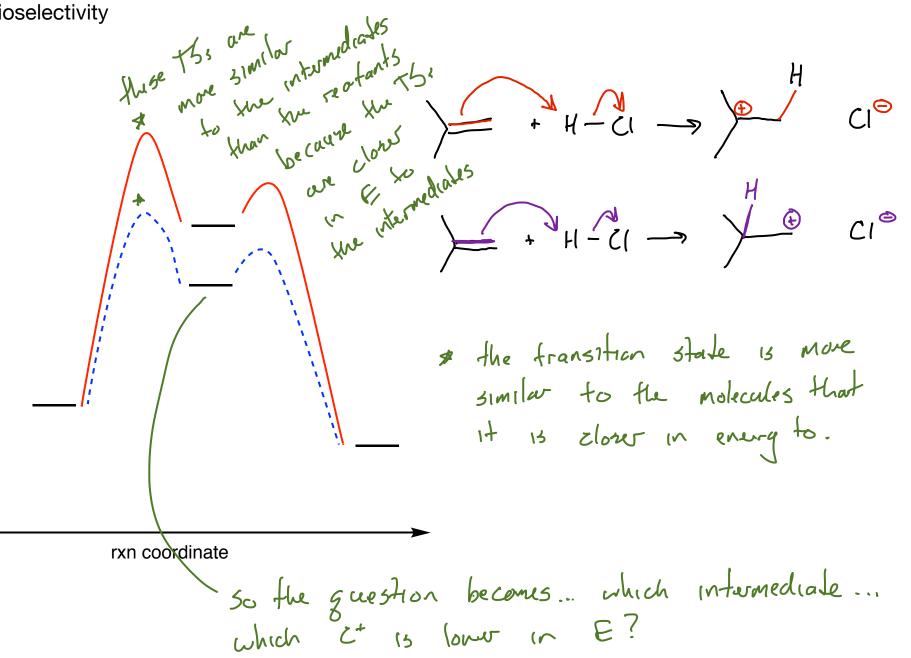


## Orientation of Electrophilic Additions: Markovnikov's Rule

Regioselectivity: The ability of a reaction to prefer the formation of one constitutional/structural isomer over another.

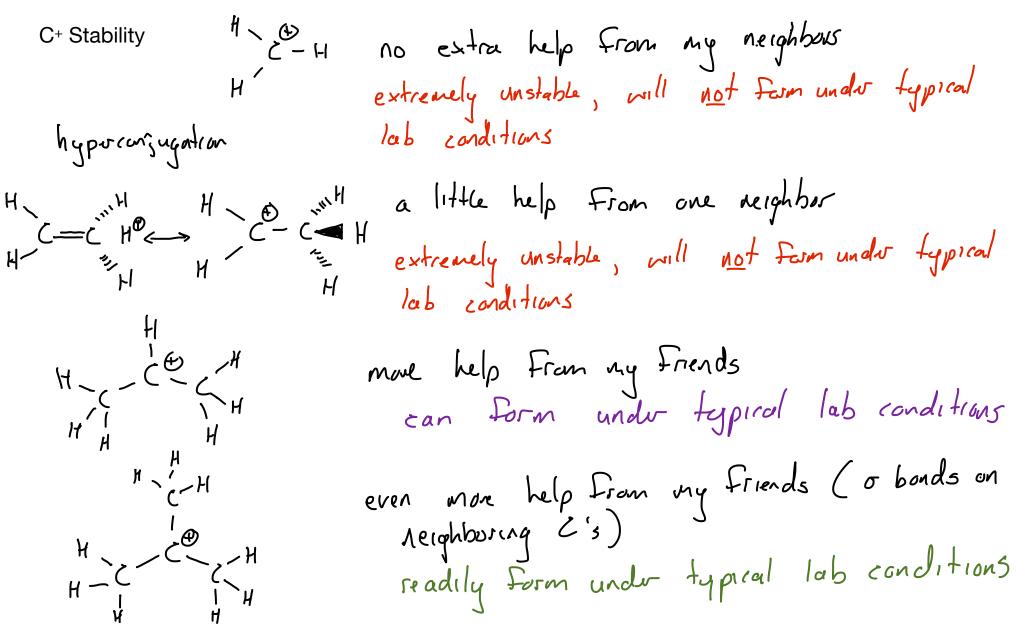
Section 7.8

The Carbocation Intermediate, the Hammond Postulate and Regioselectivity



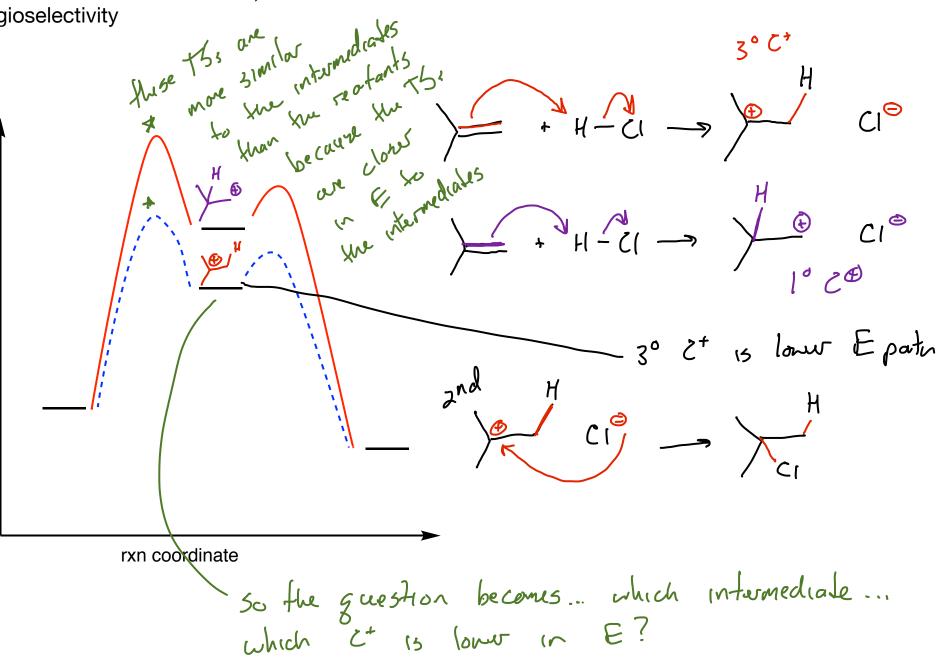
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# The Carbocation Intermediate, the Hammond Postulate and Regioselectivity



https://www.westfield.ma.edu/cmasi/organic/carbocation\_stabilization/carbocation-lumo-plain.html

The Carbocation Intermediate, the Hammond Postulate and Regioselectivity

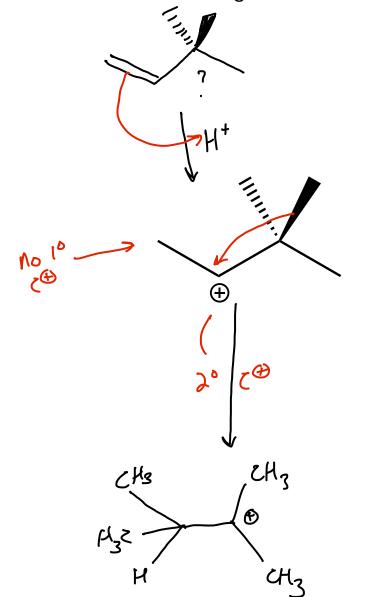


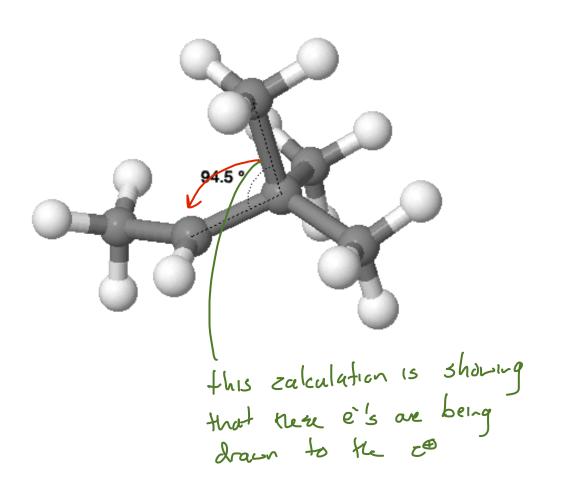
Restating Markovinkov's Rule

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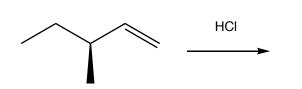
Section

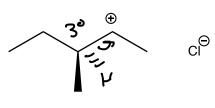
#### Carbocations rearrange: Evidence for the C<sup>+</sup> based mechanism



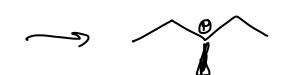


## Carbocations rearrange

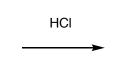


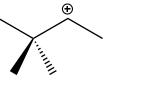


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