CHEM 261 Nov. 20, 2020

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**E1 Reaction:**

 - Rate depends on one concentraion

 - Not concerted (carbocation intermediate)

 - Not stereospecific

 - Favoured with leaving group being 3º



**Example #1:**



**Zaitsev Rule:** Get the more substituted alkene

**Example:**



**Example #1:**





-OH and -OCH3 are bad leaving groups and so these reactions would not occur spontaneously without an acid catalyst.

**Example**



Substitution vs. Elimination:

 - Low Temp - High Temp

 - Weaker Base - Stronger Base

 - Dilute H+ - Conc. H+

 - Leaving group on 1º carbon - 2º, 3º

 - Small Nucleophile - Large Nucleophile