

Question 1

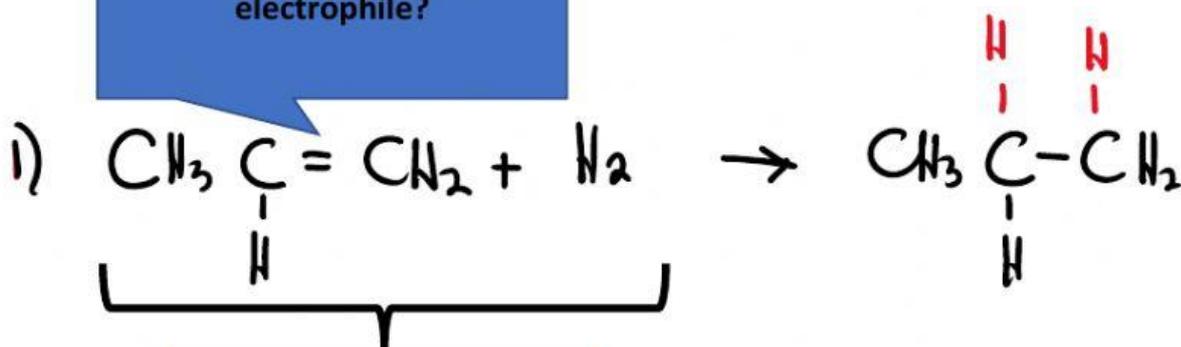
State three differences between homolytic and heterolytic cleavage:

No	Item	Homolytic cleavage	Heterolytic cleavage
1	Types of bond (polar or non-polar)		
2	Break-up of the bond (symmetrical Or unsymmetrical)		
3	Energized by/Initiated by (UV/Sunlight Or T/P/Catalyst)		
4	Name of intermediate species		

Additional Question

Based on the chemical equation given, complete the related info in the given box

Classify the species as Free radical, Nucleophile or electrophile?



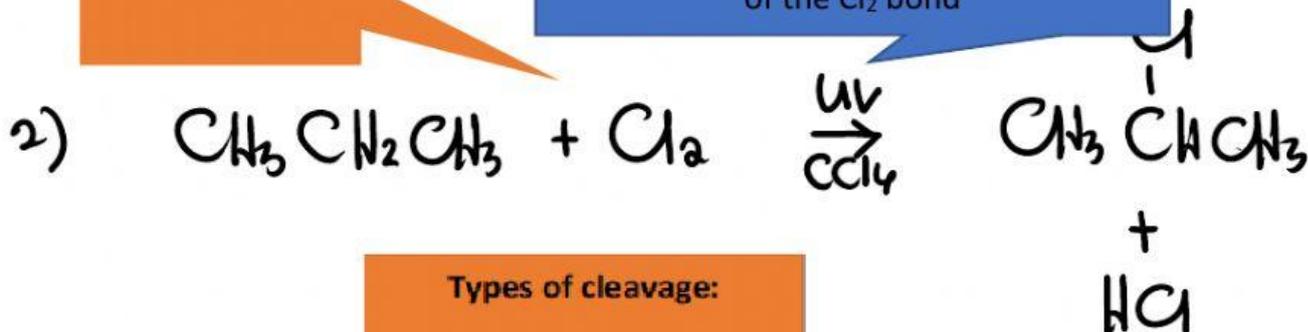
Types of cleavage:

Types of organic reaction:

Polarity of the bond?

Function of UV:

Supply of _____ for breaking of the Cl₂ bond

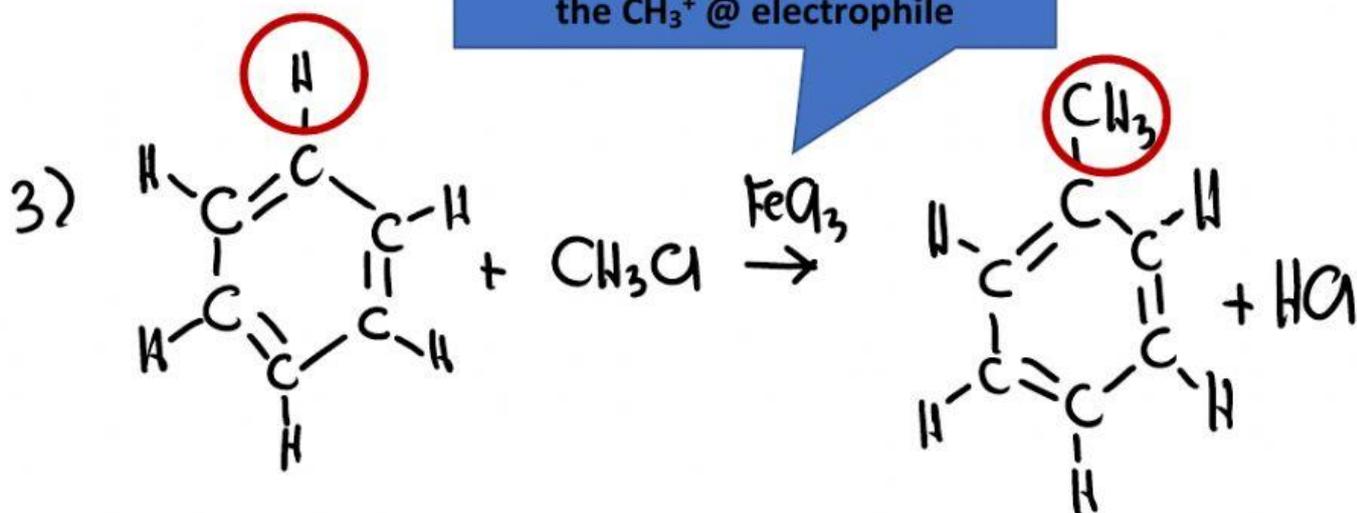


Types of cleavage:

Types of organic reaction:

Function of FeCl₃:

FeCl₃ is Lewis Acid that produce the CH₃⁺ @ electrophile



Types of cleavage:

Types of organic reaction: