### REVIEW: ACIDITY

RESONANCE & INDUCTION STABILIZES THE CONSUGATE BASE AND HENCE EAVOURS DEPROTONATION, LEADING TO A STRONGER ACID.

- · MUBICIDIZATION INCREMES ACIDITY
- O LONE PAIRS DECREASE ACIDITY
- PRODUCTS AM, ARE AFFECTED BY THE INTERMEDIATE RESONANCE STRUCTURES

LEWIS ACID

ELECTRON PAIR ACCEPTOR

REMARK

LEWIS DELOS GENERALLY HAVE AN EMPTY ORBITAL AND ARE AFFECTED BY THE ELECTRON WITHDRAWING ATOMS IN THE YOU CTURE

EXAMPLE

LEWIS acios and bases

# a ADDITION

H

$$c = c'$$
 $H - Br$ 
 $H - C - c - H$ 
 $H + H$ 

ETHONG

ETHONG

MUDPOHALOGENATION

### o ELIMINATION

$$\frac{1}{1} \cdot \frac{1}{1} \cdot \frac{1}$$

## O SUBSTITUTION

## O REARRANGEMENT

& HOMOLYTIC (SYMMETRICAL) BOND CLEAVAGE

NO - B - > A : B SYMMETRICAL BOND-MARING (RAMICOL)

O HETEROLYTIC BOND WEAVAGE

PERICYCLIC REACTIONS

SEVERAL BONDS ARE FORMED/ REOLEN WITHOUT INTERMEDIATES

~ CONCERTED REACTION

ENAMPLE

#### POLAR REACTIONS

· NUCLEOPAILE

IN ELECTRON-RICH SPECIES THAT REALTS BY DONATIONG AN ELECTRON PAIR TO AN ELECTRON - POOR SPECIES

· · ELECTROPHILE

AN ELECTRON-POOR - FRECIES THAT REACTS BY ACCEPTING AN

ENMANDLES

HO:
BASE & NVLLEGPHIL

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NUCLEOPHILE TV. BASIC