

* C=N +1) RM9 Br 2) H30+ -> X

** For any of these o can be replaced with S

Cope rearrans ment:

1 ikes more substituted alkere

alkere

closet points of double bands must be

2 (s apart!

Claisen regrangement:

closest prints on double bonds must be 10e 10 apart. Disbonded to closer -ere.

Aldol Condensation:

Aldol rendion:

Direct this by deprotomity over before addly the other!

Robinson Annulation; RIVER + RESPANSE

> The O Ketol is where the fathe double bond will be

3 bone (LOA)

bose

(EtoNA)

(EtoNA)

Claisen Contasation;

Ester + cabonyl 1. N. OR' beta-Ketoester + alcohol Rulo-R'+ Rulo-R'+ R'OH

Dieckmann Condensation.

Intra molecular chaisen contensation. 1,6 diesurs term 5 member rings and 1,7 diesters for m 6 members rings.

Base catalyed opining is AM; acidls P.M. Both come in on opposite sides of the O.

Describing when the meleophile goes.

Organ goes to opposite.

Oxy regrantion - demegacionation

- PM

- Racial C

Hot wis is available

NR SNICHR SNIET

1 et tory - lethyl cyclo herore

thy drobation Hy drakan Hd rominm hydroxy win w/0504

Halomition tlalohrolin forton DINITIOXYILIZA

Nucleophillic Aromatic substitution

3 criteria:

- Ring most be e-pool - e-with armis - must be a good lears group - most be ontho/para to e-visito)

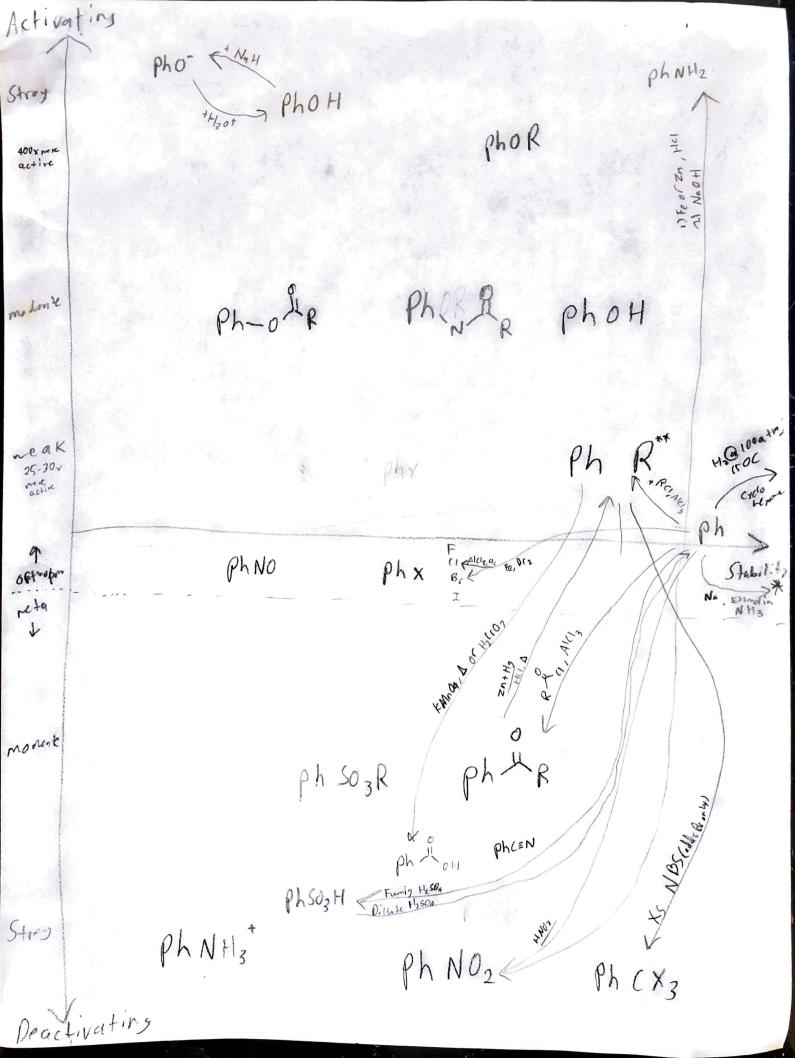
group

It Not all 3:

Elim - Addition

- Insuly strong bese read (NaNH2)

- Neta, para addition observed



* If the carbon has an E dorating group it doesn't get reduced. If it's E with drawing it does, (For Birch Reduction),

* *

RgrovP needs 21 Benzylic H