Orgo I Review -ROM can act as Tadd - nucleoghile -electrophile - can improve LG ability by using PBrs, 50 Cl2, tos Cl, otc. (inverting (noninverting) -eg RON+PBr3 -> R-Br R-OH CP-8 PBr3 R-O-PBr2 -4 R-Q-PB2 - R-Br 1) 0 acts as nuc. 2) depostonation 3) 5N2 R-ON C25 0 tosC1 R-0-5-00 = R-0-5-00 Same steps as above

[2] - At high temperatures, pyr can act as a base, causing an elimination to occur

At high temperatures, pyr can act as a base, causing an climination to occur workup: > On 70012 -note: Jultur is more nucleophilic, strong hvc, weak base, will 502 Converts alcohol to carbonyl (ROM -> R=0) -regures: worker (r03 = 40-11=0 -steps! 1) improve LG ability of charge from charge con 2) m2 0-50 - 0 CM2 = 0 0 cm- cr = 0

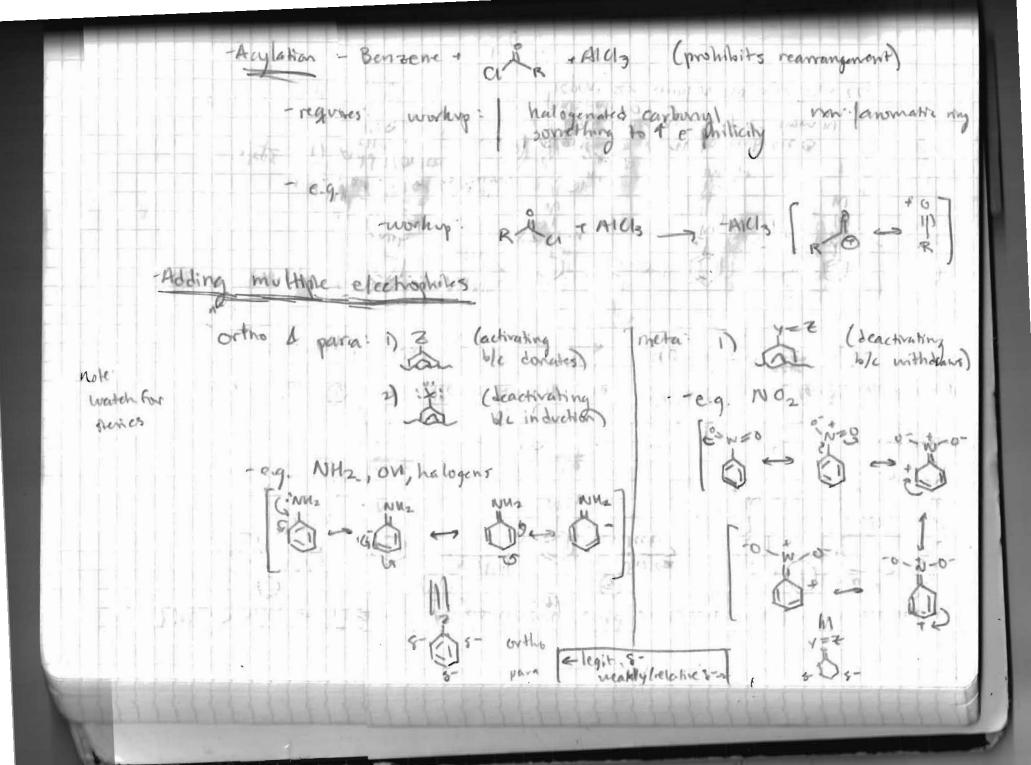
Epoxide - in acidic, Ot mores away from stenes, allowing for more sub. side to receive the O -in basic, me will attack less steneally hindered side - this concept is generalizable (3)

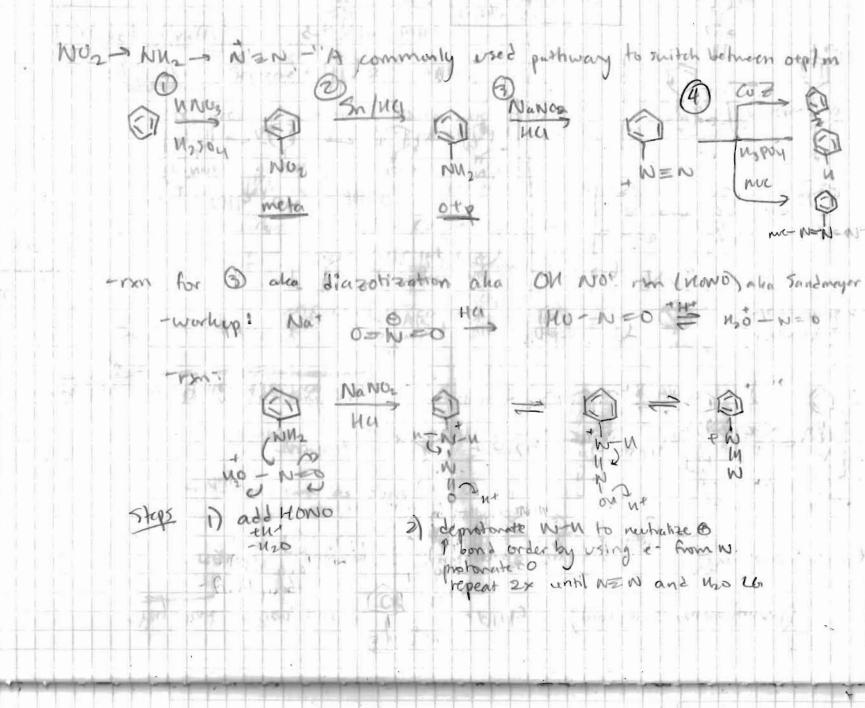
Anomatic Reactions

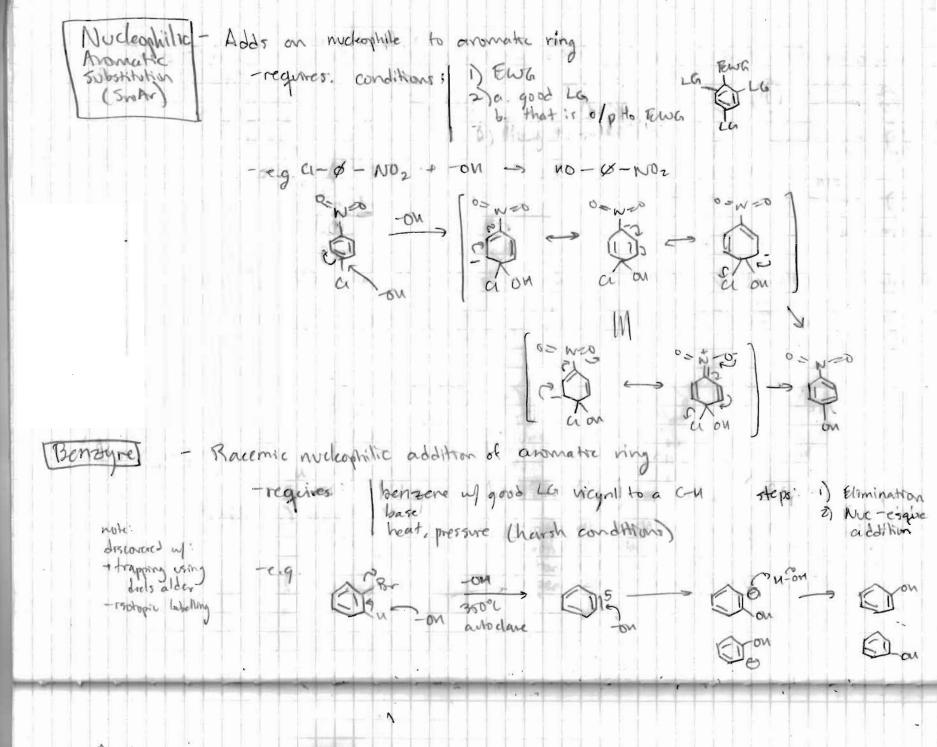
Momatic Keactions - Adds an electrophile to an animatic ring Electrophilic Ave -sleps: -requires: workup: enough nue on ring enough election explice 500 1) grab electrophik by breaking a Lord U Using All Fe / B/En to 1 electrophilicity 2) resonate + charge -workup AICI3 + CI2 - CI-AICI4 3) Elimination using H April C on CX, this remove @ drarge. Tran) (+ CI AICLY (CIL) AICLY -e.g. Benzere + 11NO3/112504-> Tworking: No_N=0 == No_N=0 Nsson Not-10-0 -> 0=N=0 -rxn: same process as above 0 + 6NO2 - 0 -

Friedel Crafts	
-Alkylation - Benzore + CI-R +Alciz	
requires working halogenated molecule something to rephilicity	rxn. I aromatic n'ny
-e.g. work rearrangement benzene + cime + R	ners
-works: Cl - Ch3 + Alclo -> &	AICI4
trin some as electrophilic aromatic rub.	a
+ ch3 ALLY CICH3	
	+ Alci3
worker wa + Alcl3 - TE	Aluy - Aluy
-nxn: same as above.	Ary Transfer
D = & AIGH OF AIGS D-	-
TAICI3 X	

-Acylation - Benzene + CIR Aldiz (prohibits rearrangement)







Anomatic summary

Sty - on avodance - 150topic labelling Anomatic summary. 1) Elato Ano Sub crtho + para vs. meta X/Al X3 MNO3/1/2504 - 5n/HCl -> NaNO2/HC -> Sandweyer Friedel Crafts Alleylation/ Acylation 2) Nucleophilic And Sub Eura La July La 3) Benzyne ron