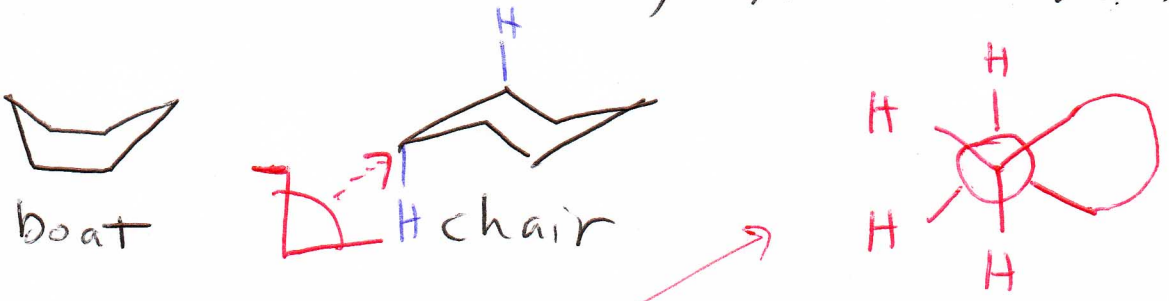
Chapter 1

line structures
bond vs ant. bond
hybridization
σ vs π
VSEPR shapes
acids + bases → pka

Chapter 2

nomenclature - alkanes, alkyl halides, alcohols, alkenes, alkynes, alkenols
- no ethers or amines

rotomers
cyclohexane - chair/boat; axial vs equat.



Chapter 3

Cis/trans vs E/Z
CIP rule
kinetics, thermo, equilibrium
RLS, RCD

Chapter 4

electrophilic add'n

Chapter 5

R or S?

phantom atoms

chiral?

enantiomers, diastreomers, epimers

optical rotation

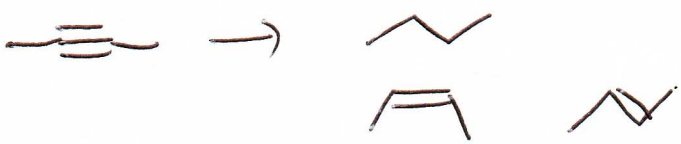
racemic

meso

Chapter 6

acetylide ions

$(\text{TII})_2\text{B}-\text{H}$ + tautomerization

hydrogenation 

Chapter 7

resonance → SMO

conjugation

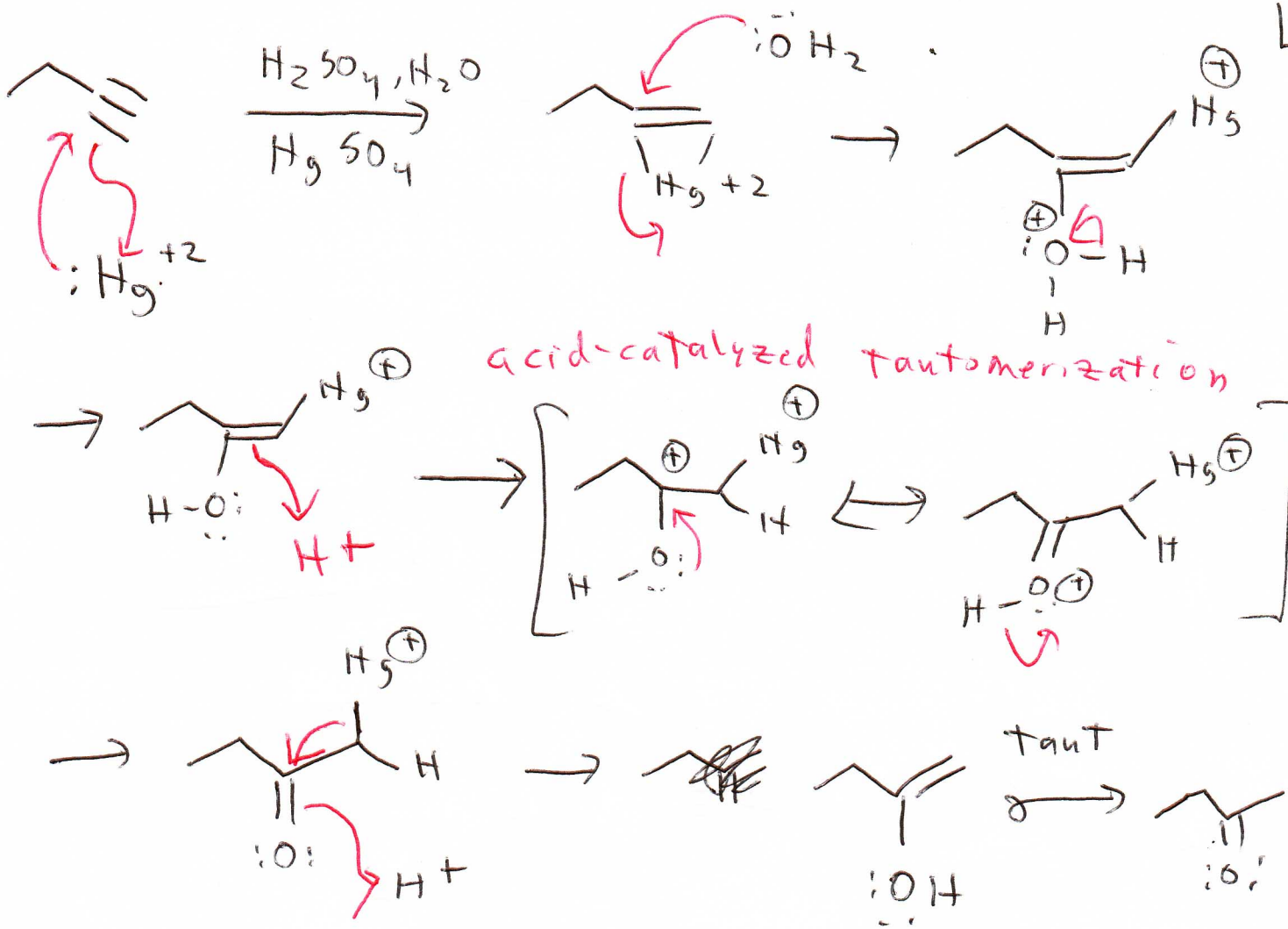
Chapter 8 + 9

S_N1, S_N2, E1, E2

substrate, nucleophile, leaving group, solvent

Chapter 12

free-radical halogenation



End of Chem 12A