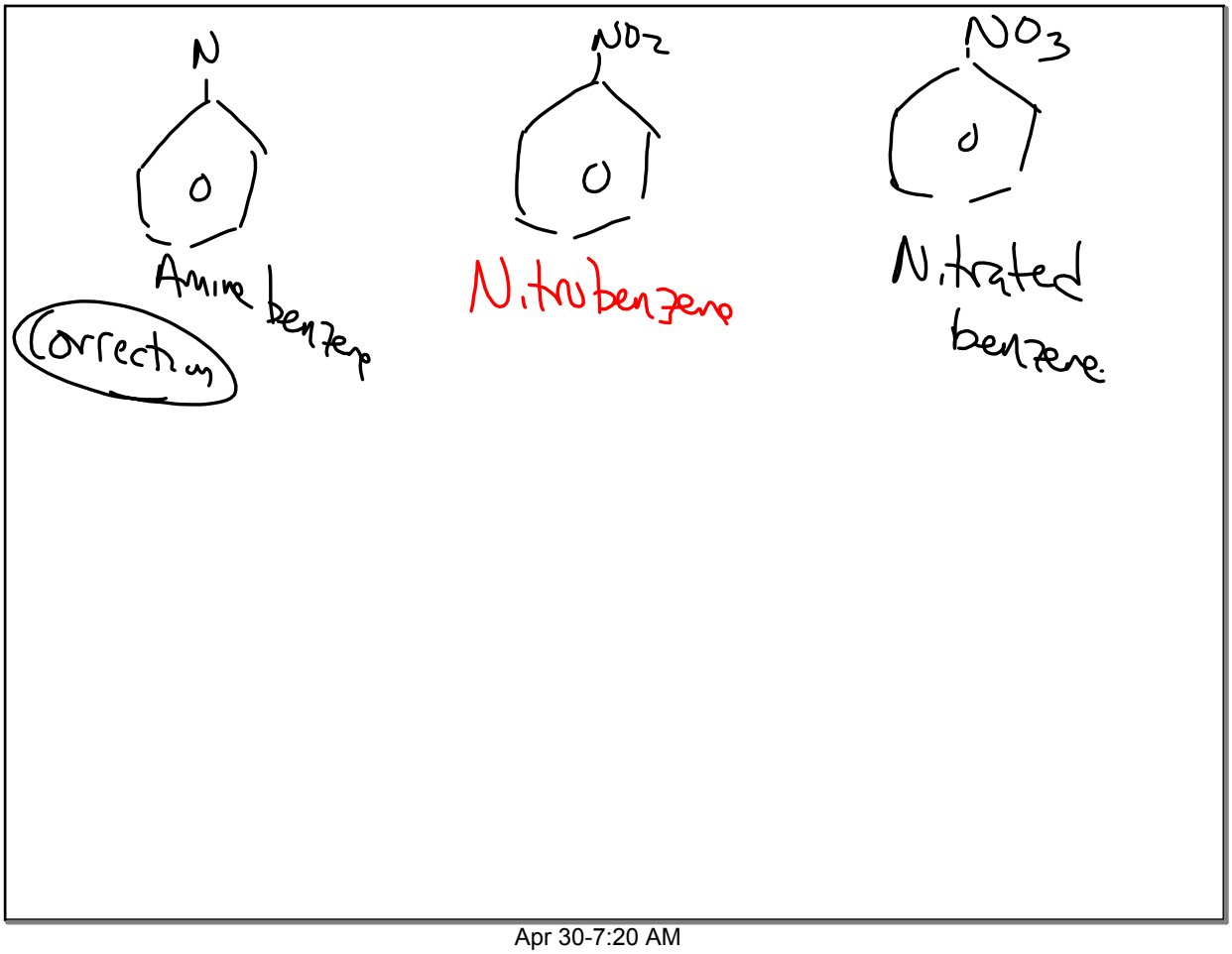


Apr 30-7:20 AM

Functional Groups

1 Fluoro propane

① Halogenation

1,2 di fluoro ethane.
(Teflon Monomer)

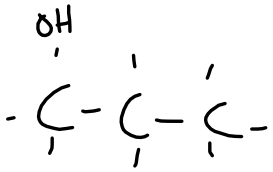
Apr 30-7:33 AM

② Alcohols

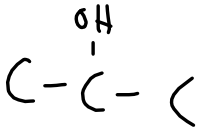
-ol

R - OH

# of carbons



1propanol



2propanol

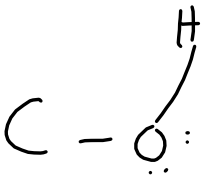
} isopropyl alcohol / isopropanol

Apr 30-7:38 AM

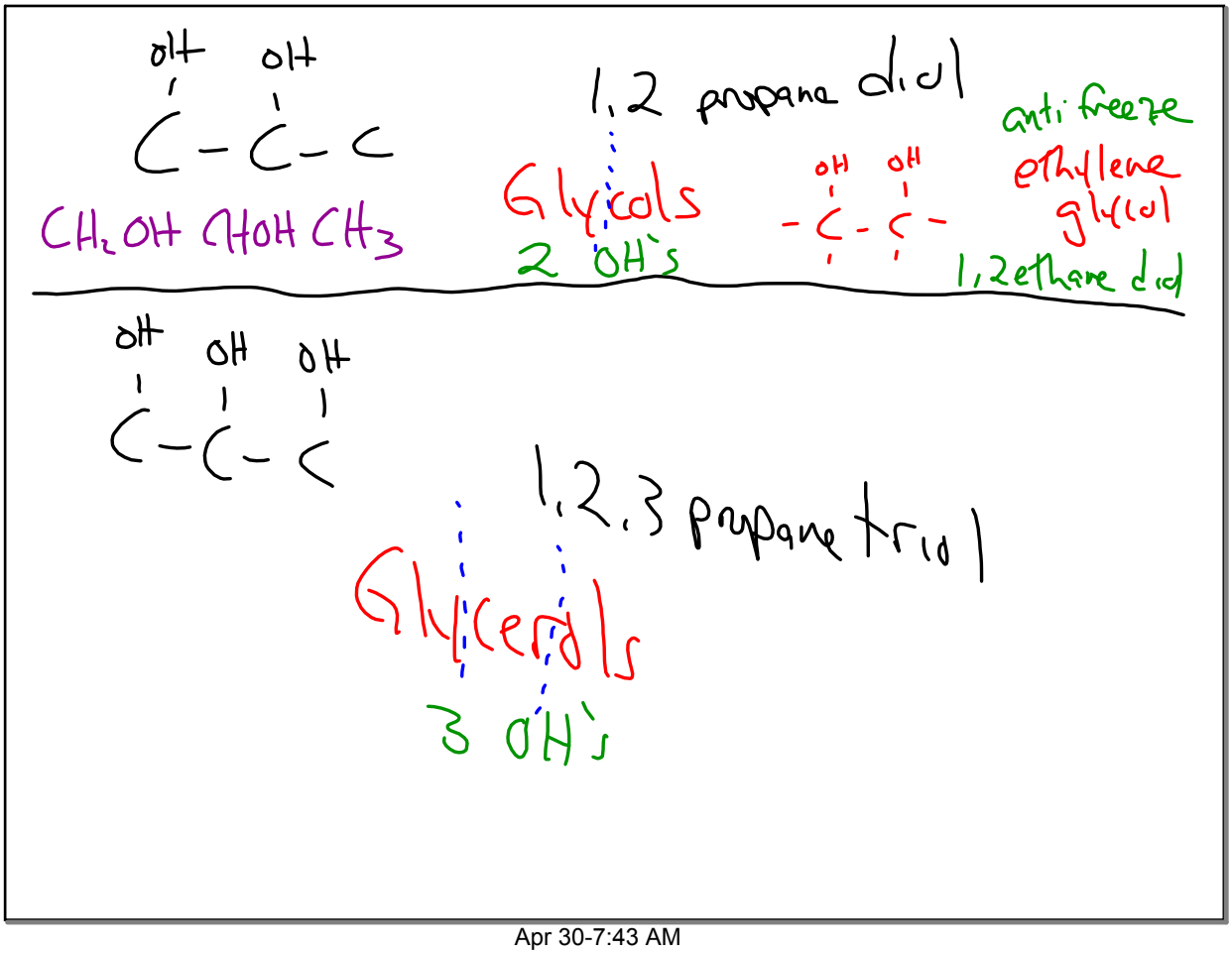
1,2 propane diol

~~OH - C~~

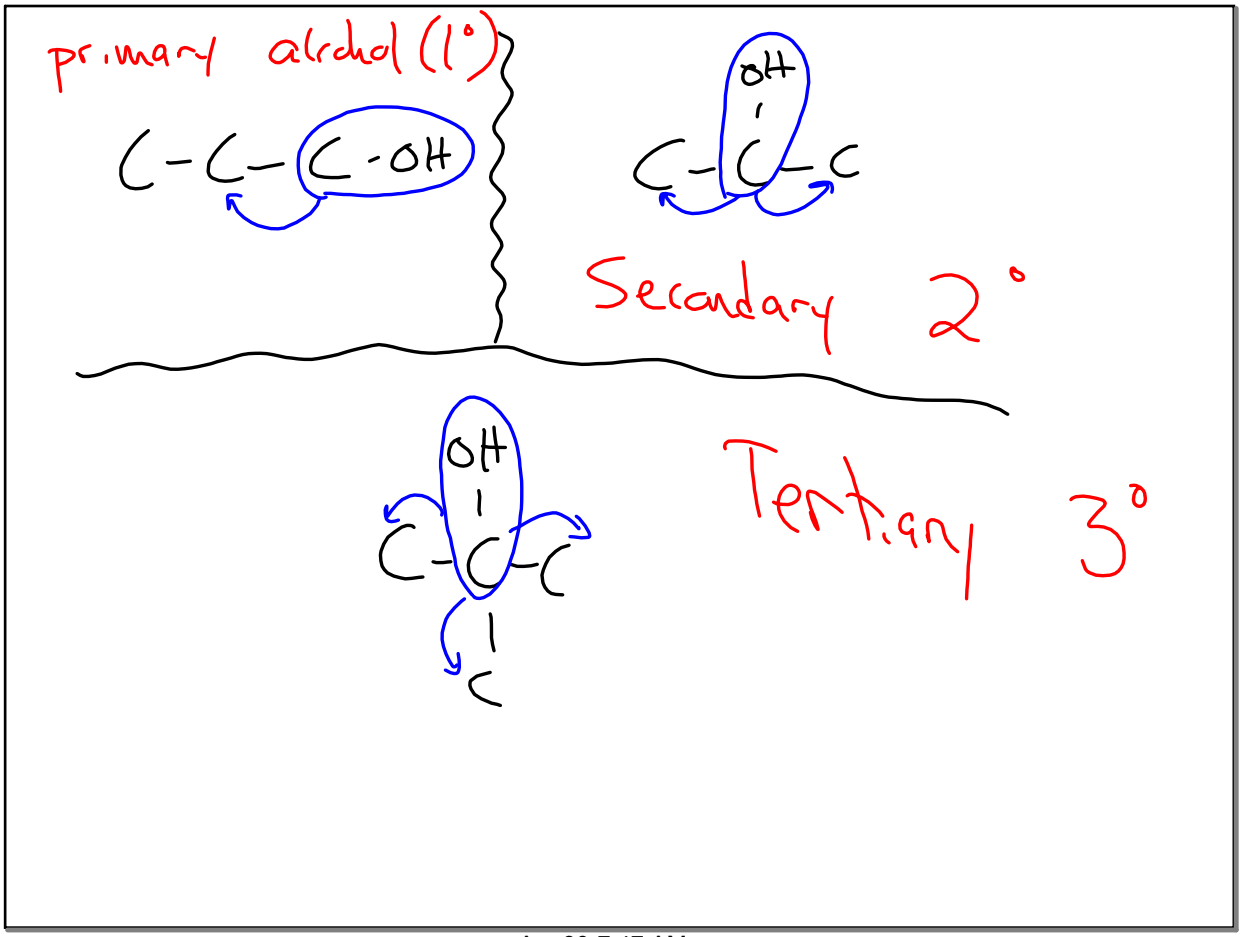
H only has 1 spot to bond



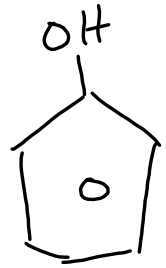
Apr 30-7:41 AM



Apr 30-7:43 AM



Apr 30-7:47 AM



phenols

benzyl hydroxide

Apr 30-7:49 AM

Alcohol Polarity

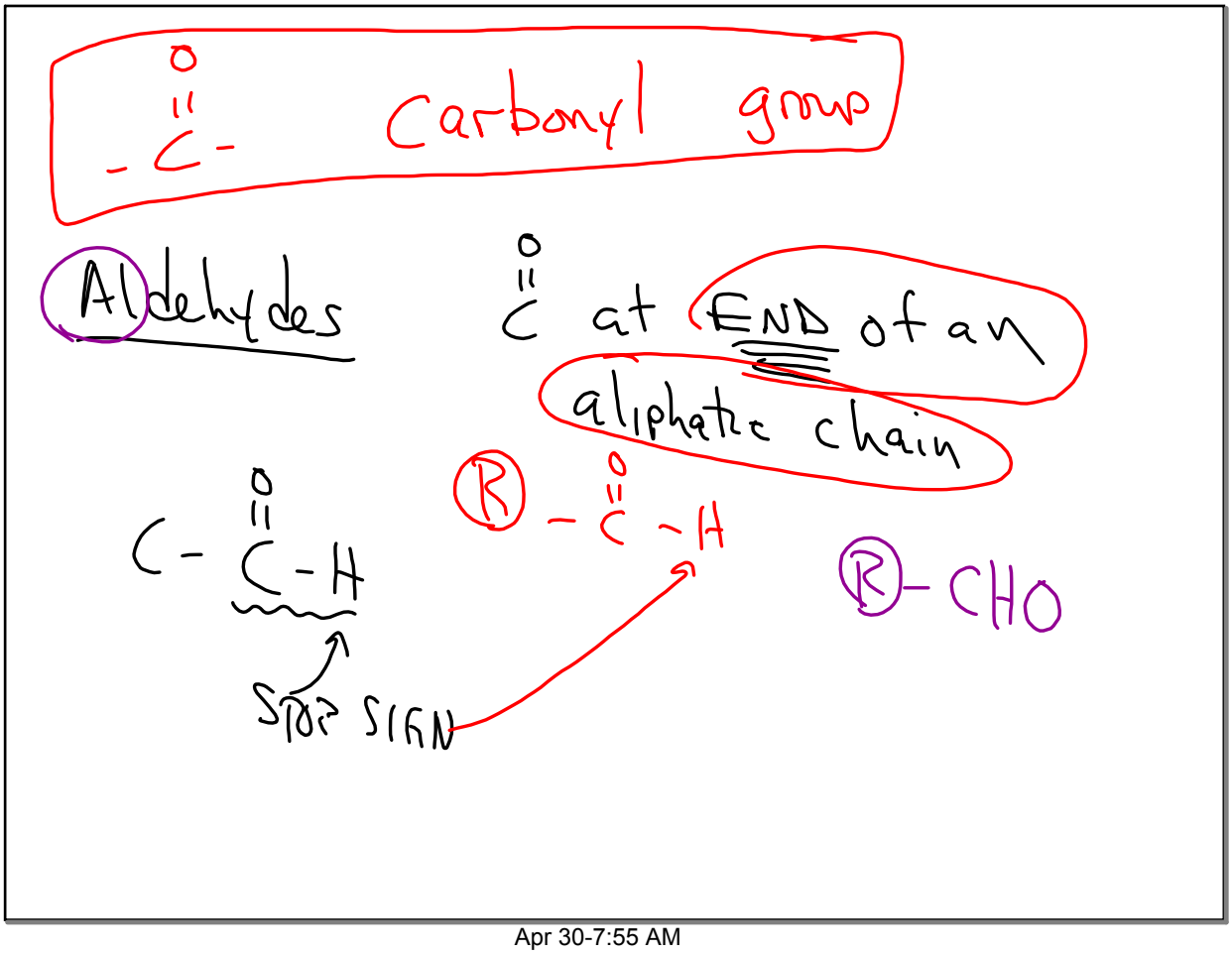
ETOH

→ C-C-OH (drinking) ethanol ethyl alcohol (most polar of this group.)

→ C-C-C-C-OH

→ C-C-C-C-C-C-C-C-C-C-OH (least polar of this group.)

Apr 30-7:51 AM



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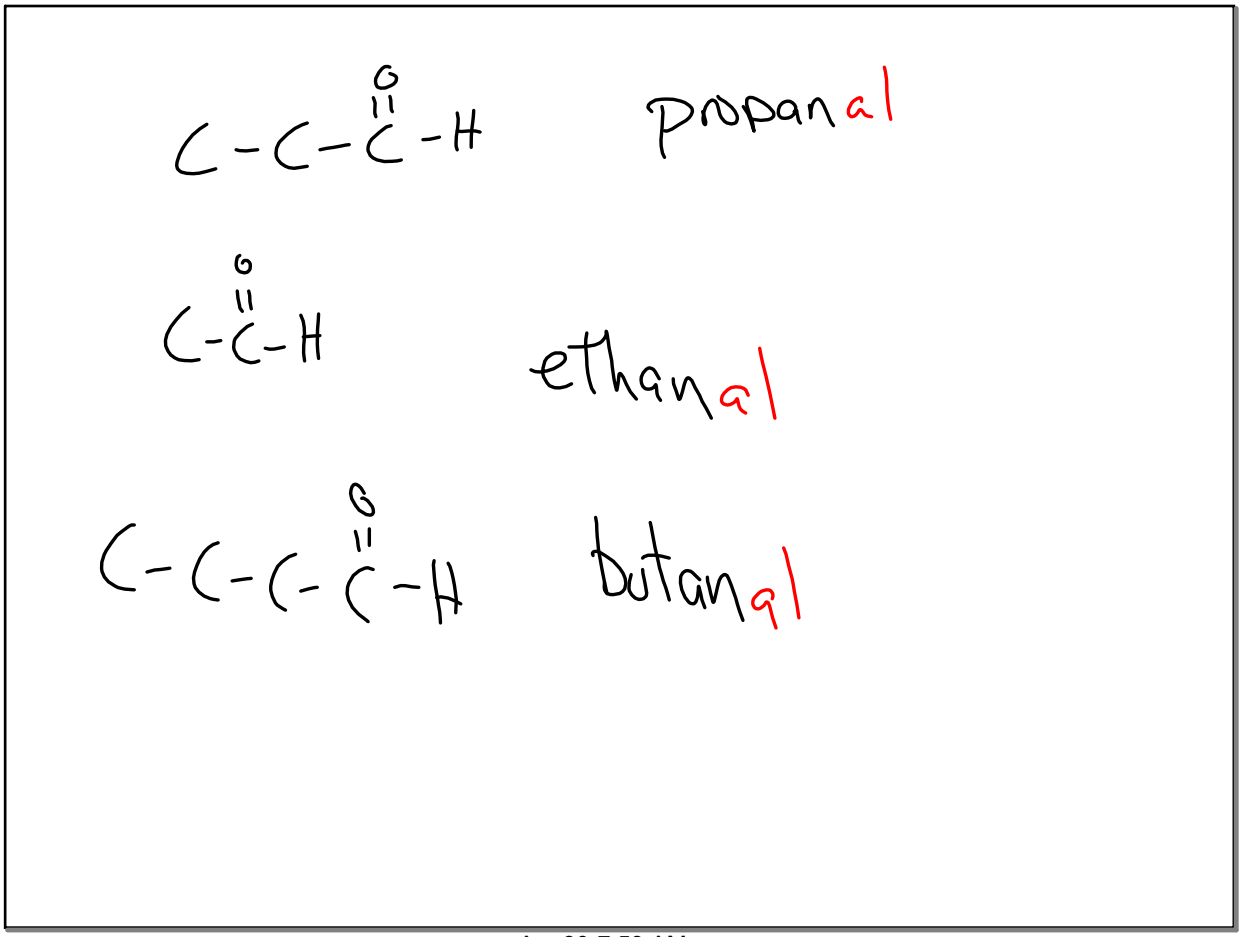
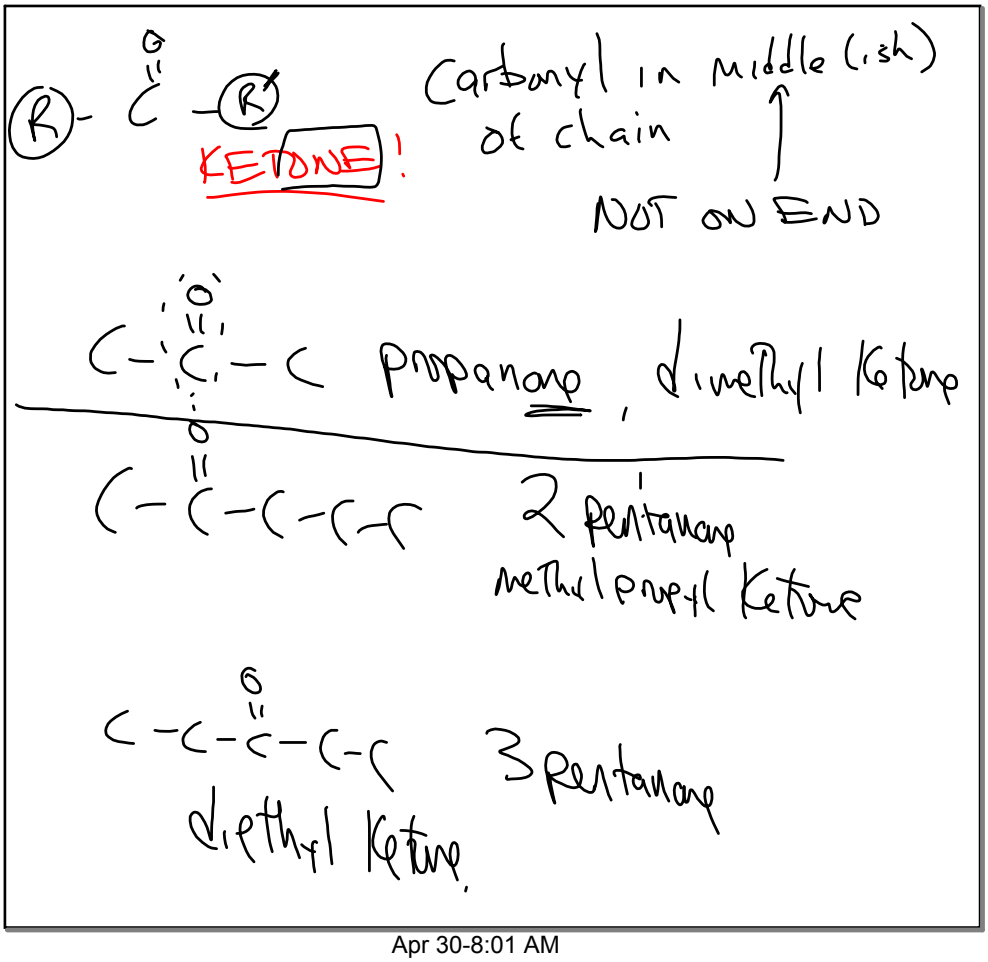
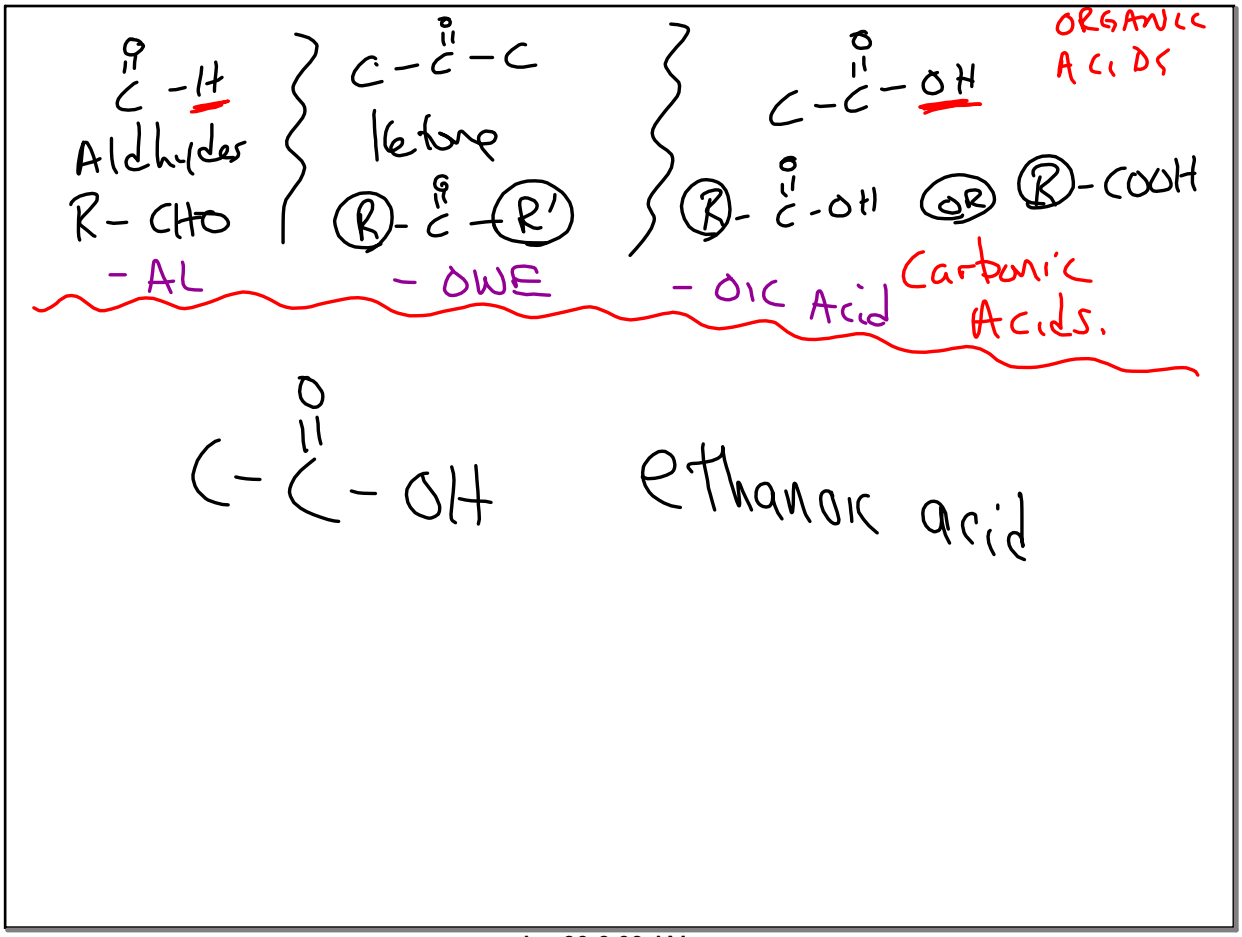


Apr 30-7:59 AM



Apr 30-8:01 AM



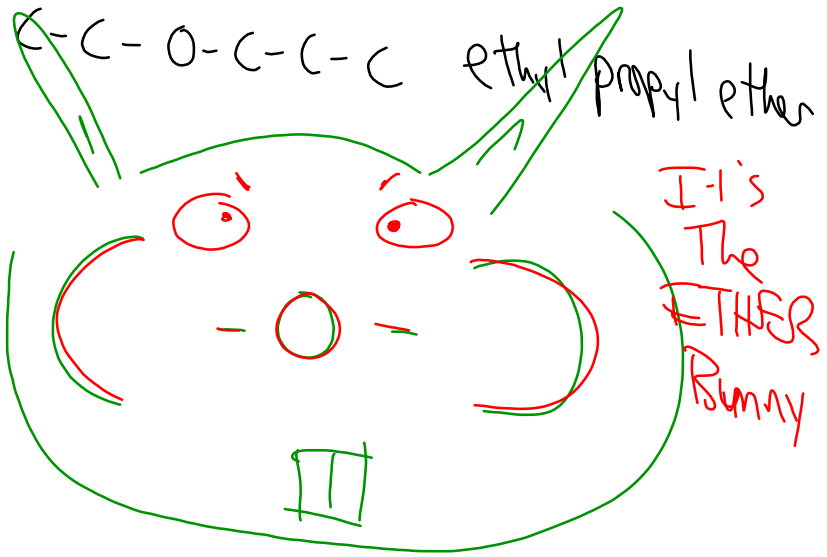
Apr 30-8:09 AM

Ether R – O – R'

Middle (ish)

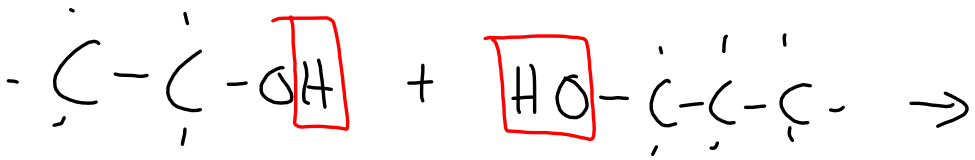
C – O – C dimethyl ether

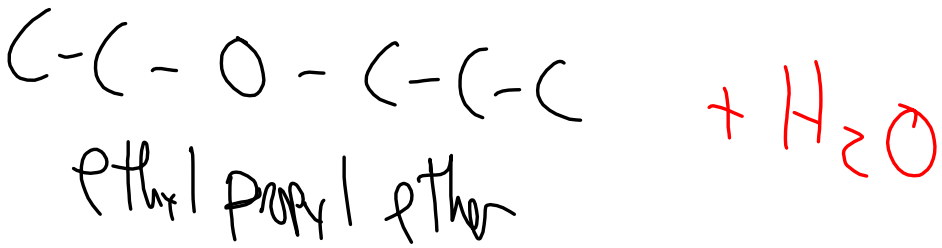
C – C – O – C – C – C ethyl propyl ether



Apr 30-8:12 AM

Dehydration synthesis of two 1° alcohols



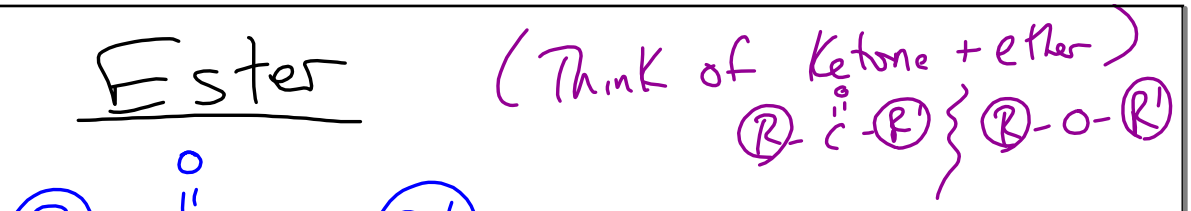


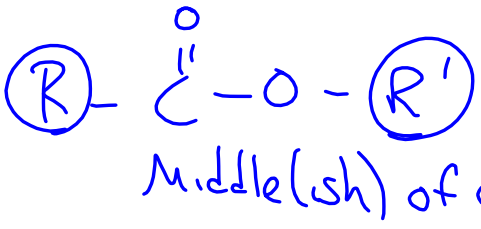
ethyl propyl ether

Apr 30-8:21 AM

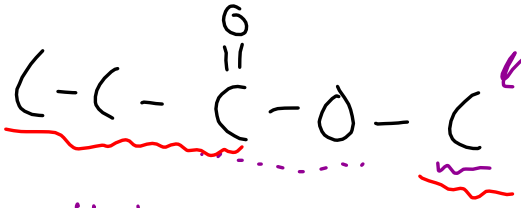
Ester

(Think of Ketone + ether)



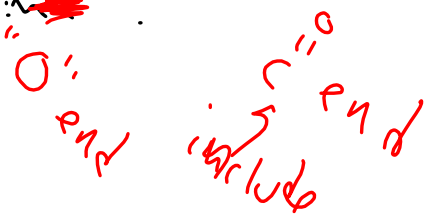


Middle(ish) of chain



ethyl methyl ester

methyl propanoate



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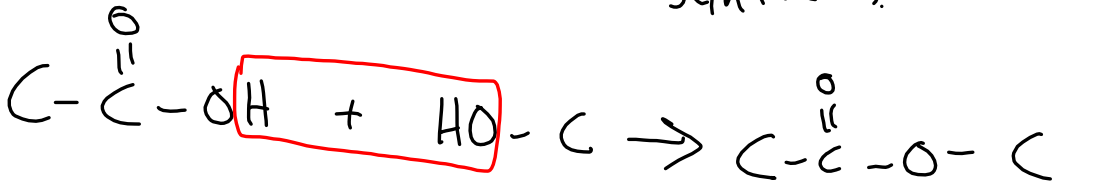
Org Acid + 1° Alcohol → ester

dehydration synthesis

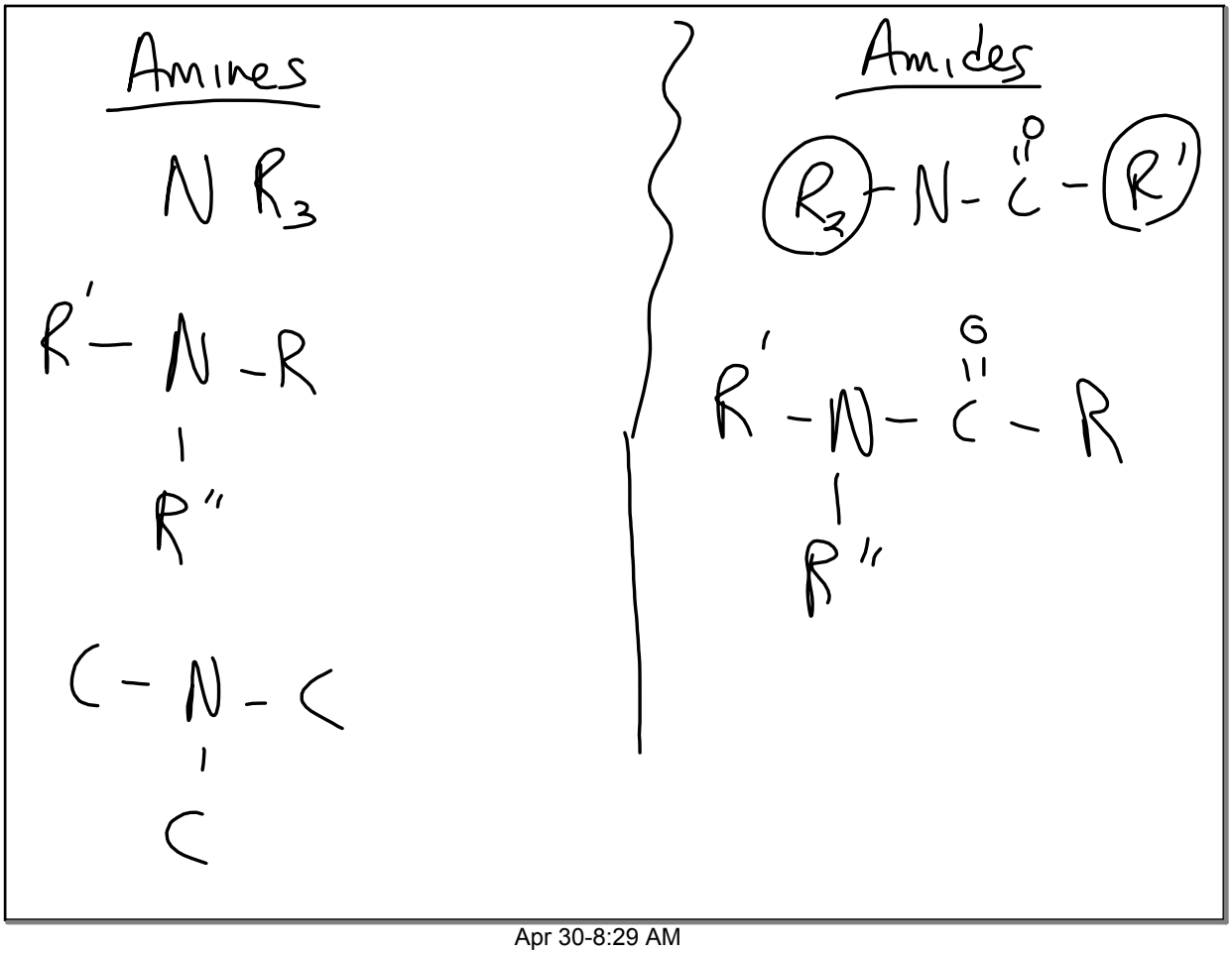


methyl ethanoate

+

H_2O

Apr 30-8:27 AM



Apr 30-8:29 AM

L + R hands

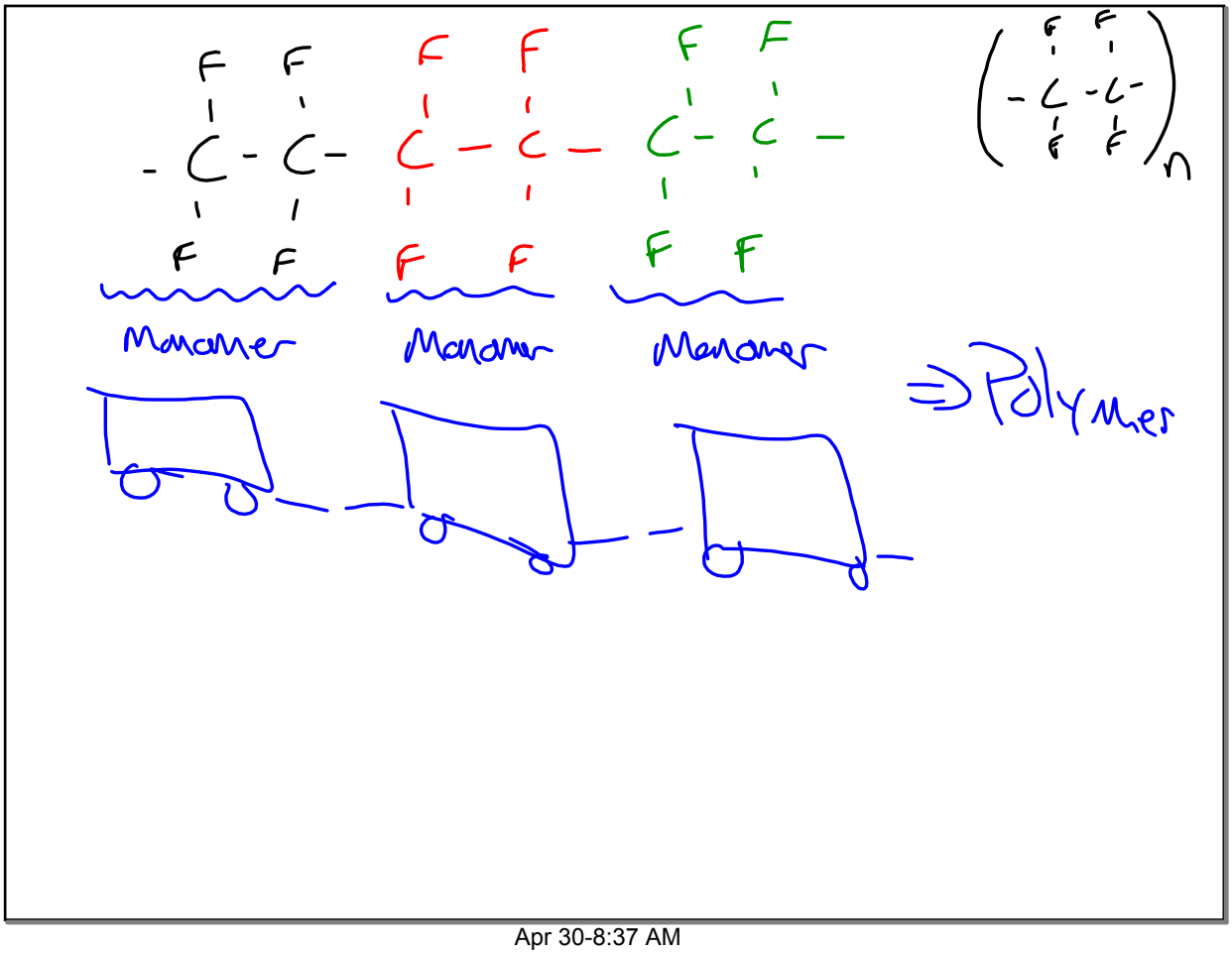
4 different R_4 group LIGANDS

Stereo Mirror images = CHIRAL

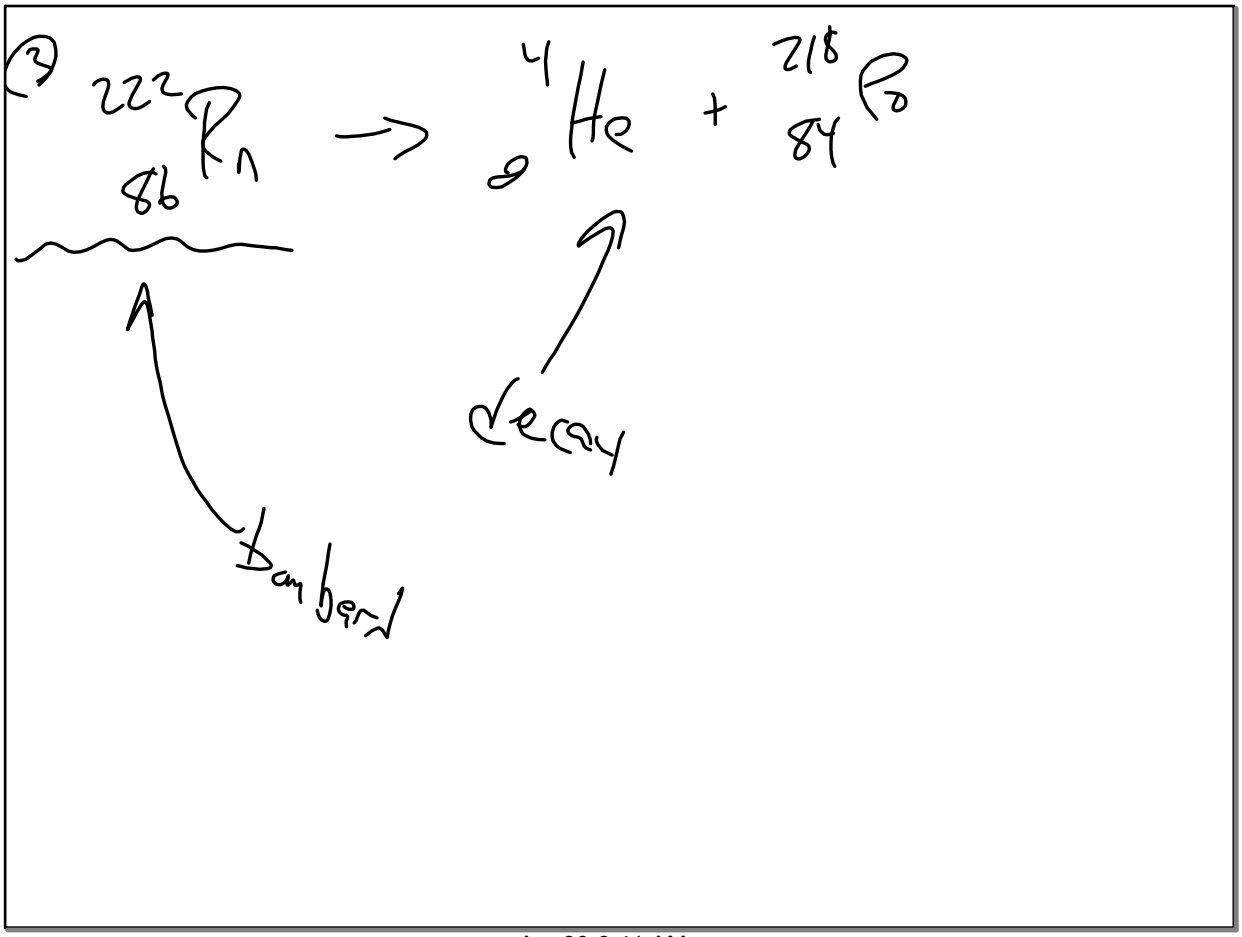
Enantiomers of each other

Non Superimposable Mirror image

Apr 30-8:32 AM



Apr 30-8:37 AM



Apr 30-8:41 AM

(4) $^{83}_{38}Sr$ $t_{1/2} = 32\text{ hrs}$

$A_0 = 10\text{ mg}$ $t = 96\text{ hrs.}$

$10 \xrightarrow{1} 5 \xrightarrow{2} 2.5 \xrightarrow{3} 1.25$

$1 \to 1/2 \to 1/4 \to 1/8$

12.5%

Apr 30-8:42 AM

(7) $^{14}_{7}N + {}^{1}_{0}n \to {}^{1}_{1}H + {}^{14}_{6}C$

(8) (9) ✓ ${}^{1}_{1}H \to {}^{1}_{0}n + {}^{0}_{+1}e^{+}$

(10) ${}^{1}_{0}n \to {}^{1}_{1}N + {}^{0}_{-1}e^{-}$

Apr 30-8:45 AM