

Exam 3

① $\Delta S \oplus$ $S \rightarrow L \rightarrow G$

③ $\Delta G = -RT \ln K$

⑦ Spont $\Delta G \ominus$ \rightarrow Switch \leftarrow Non Spont $\Delta G \oplus$

$\Delta G = \Delta H - T\Delta S$

$\Delta H = T\Delta S$

$T = \frac{\Delta H}{\Delta S} = \frac{573}{1.64} = 349.39 K = 76^\circ C$

Apr 17-7:27 AM

① $E^\circ = ?$, $E = 1.5 V$

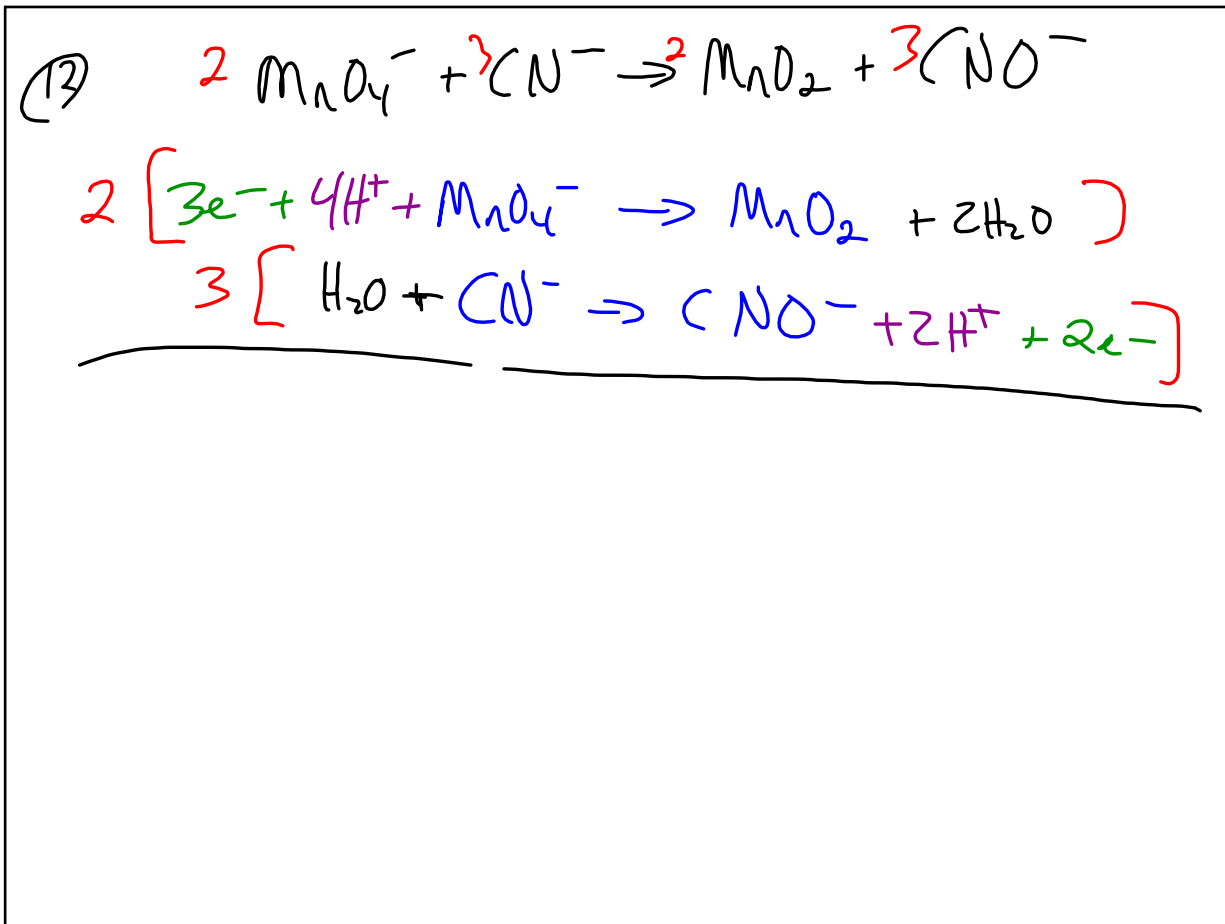
$Cr(s) + 3Ag^+_{0.1M} \rightarrow Ag(s) + Cr^{3+}_{0.3M}$

$Q = \frac{[Cr^{3+}]}{[Ag^+]^3}$

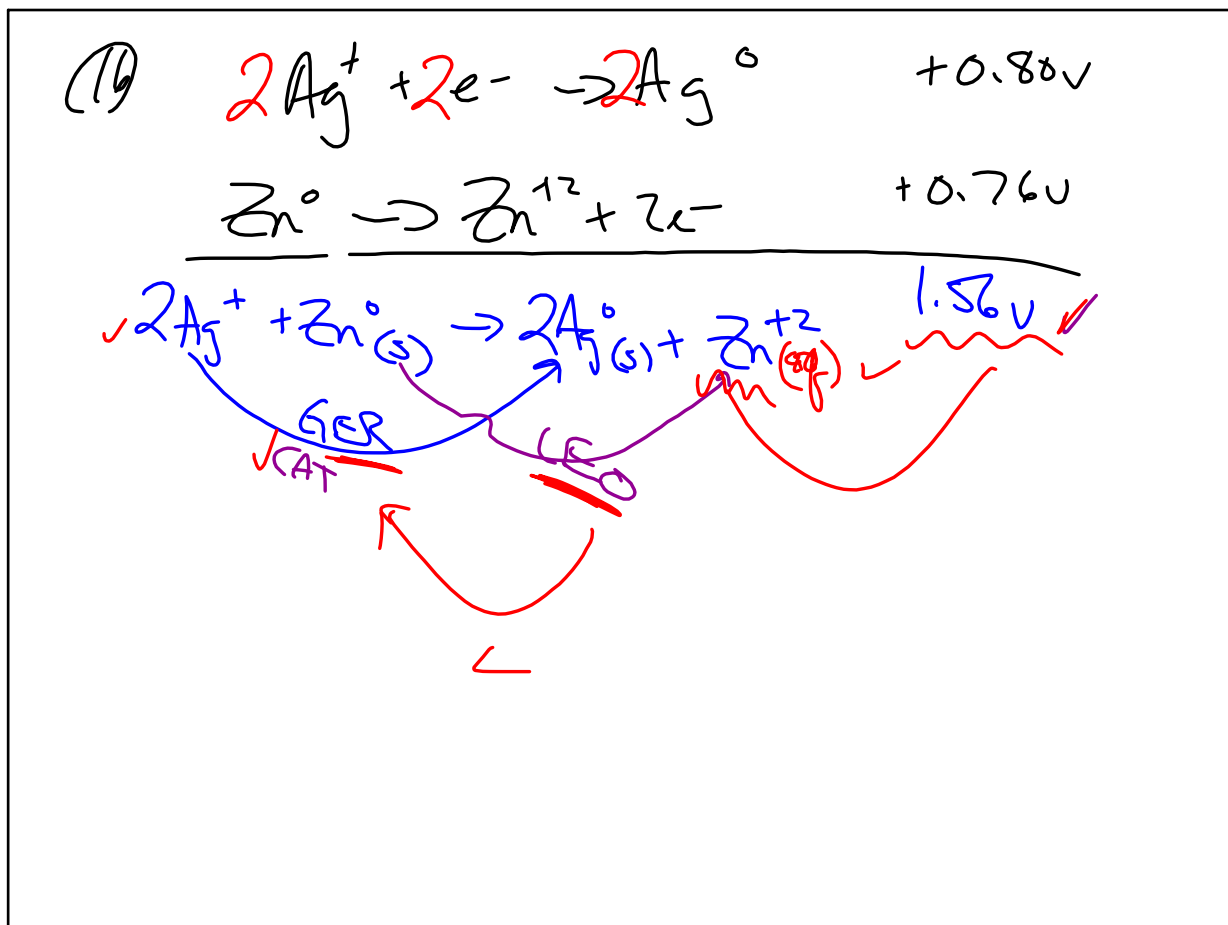
$E = E^\circ - \frac{RT}{nF} \ln Q$

$1.5 = E^\circ - \frac{(8.314)(298)}{3(96500)} \ln \frac{0.3}{(0.1)^3}$

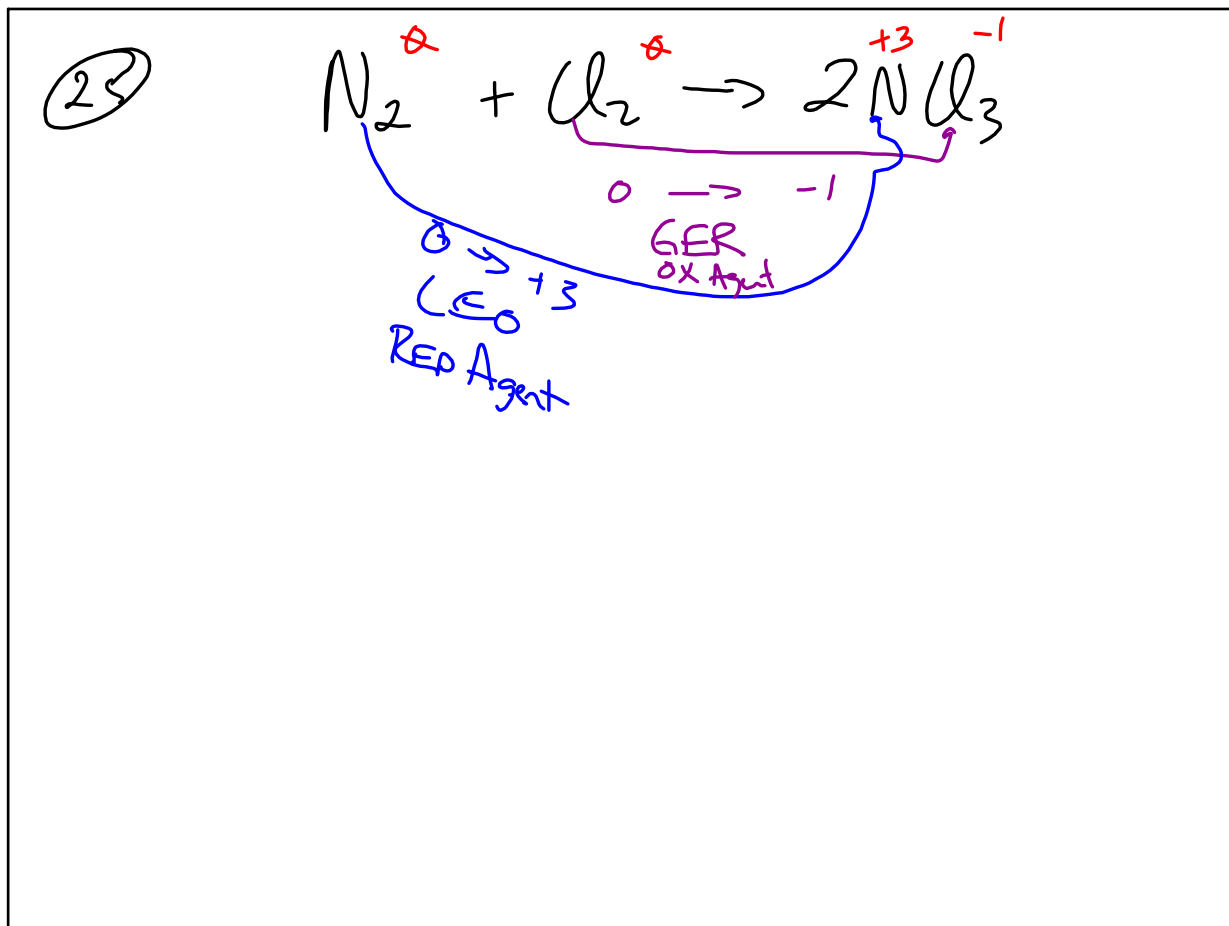
Apr 17-8:02 AM



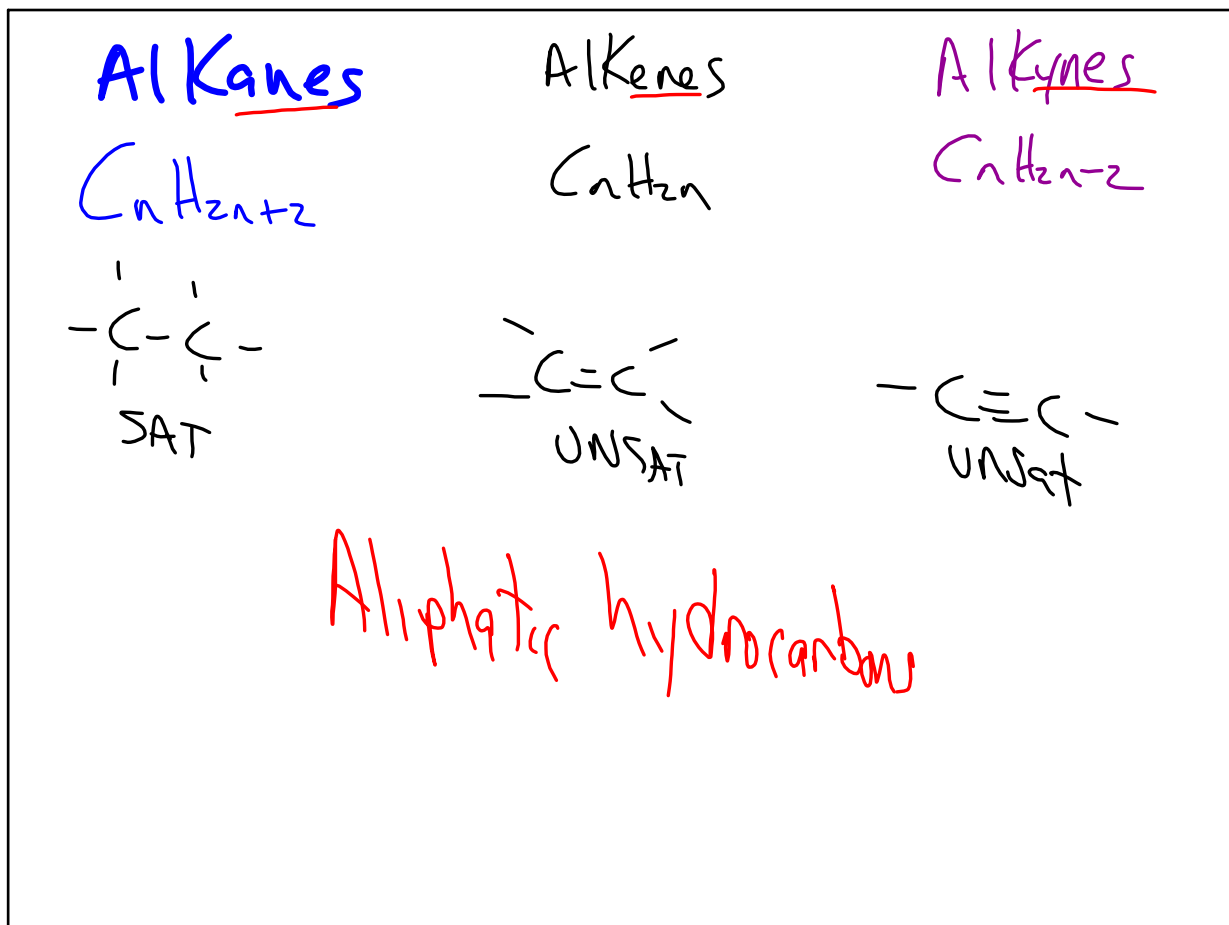
Apr 17-8:06 AM



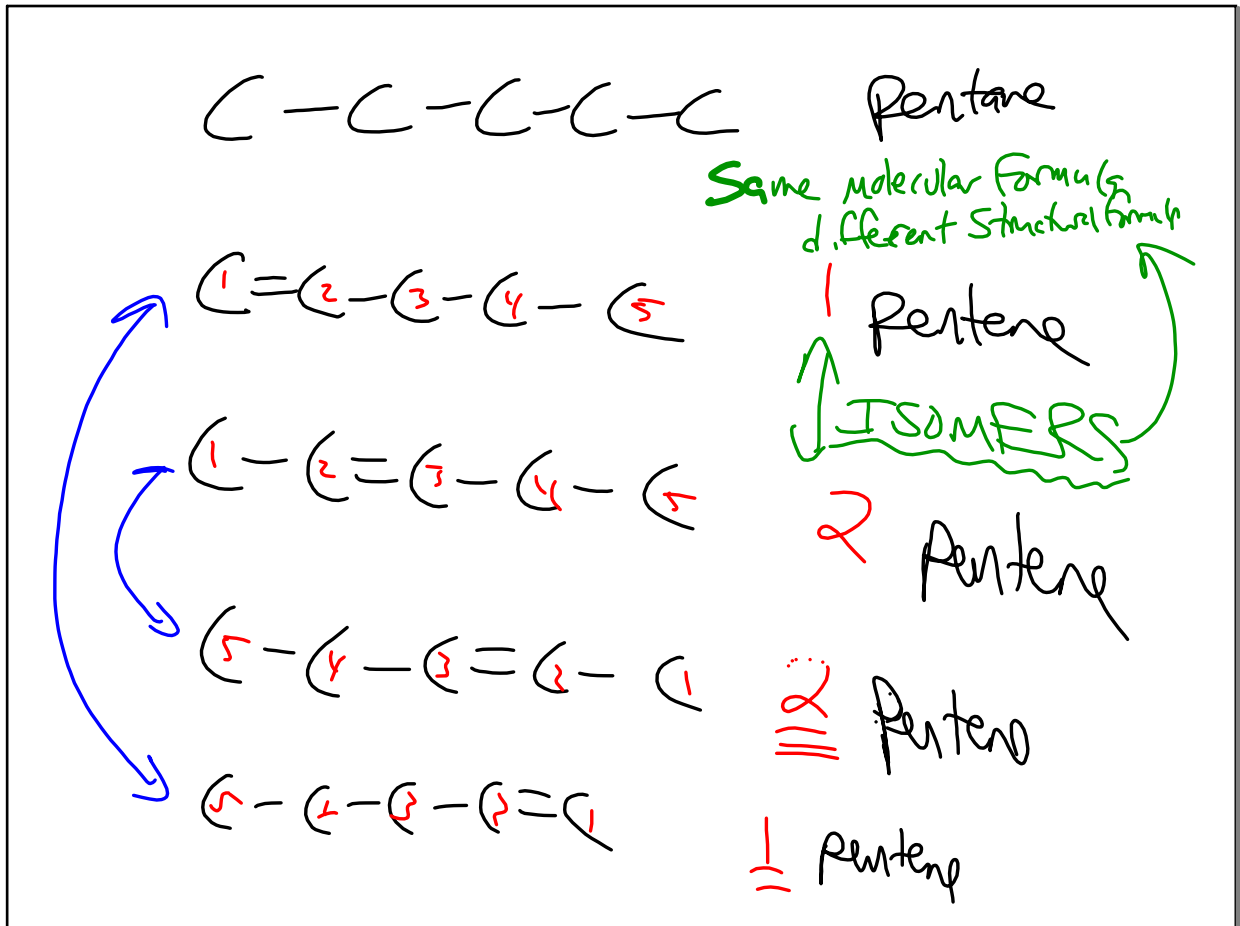
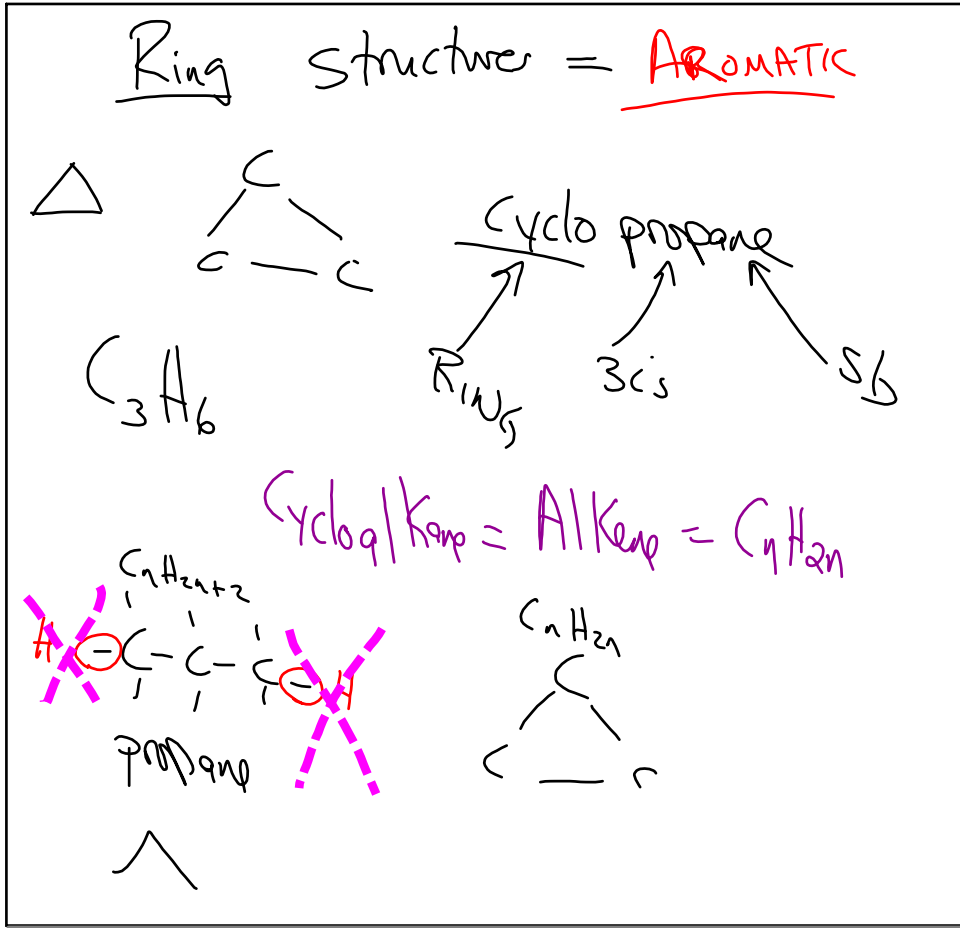
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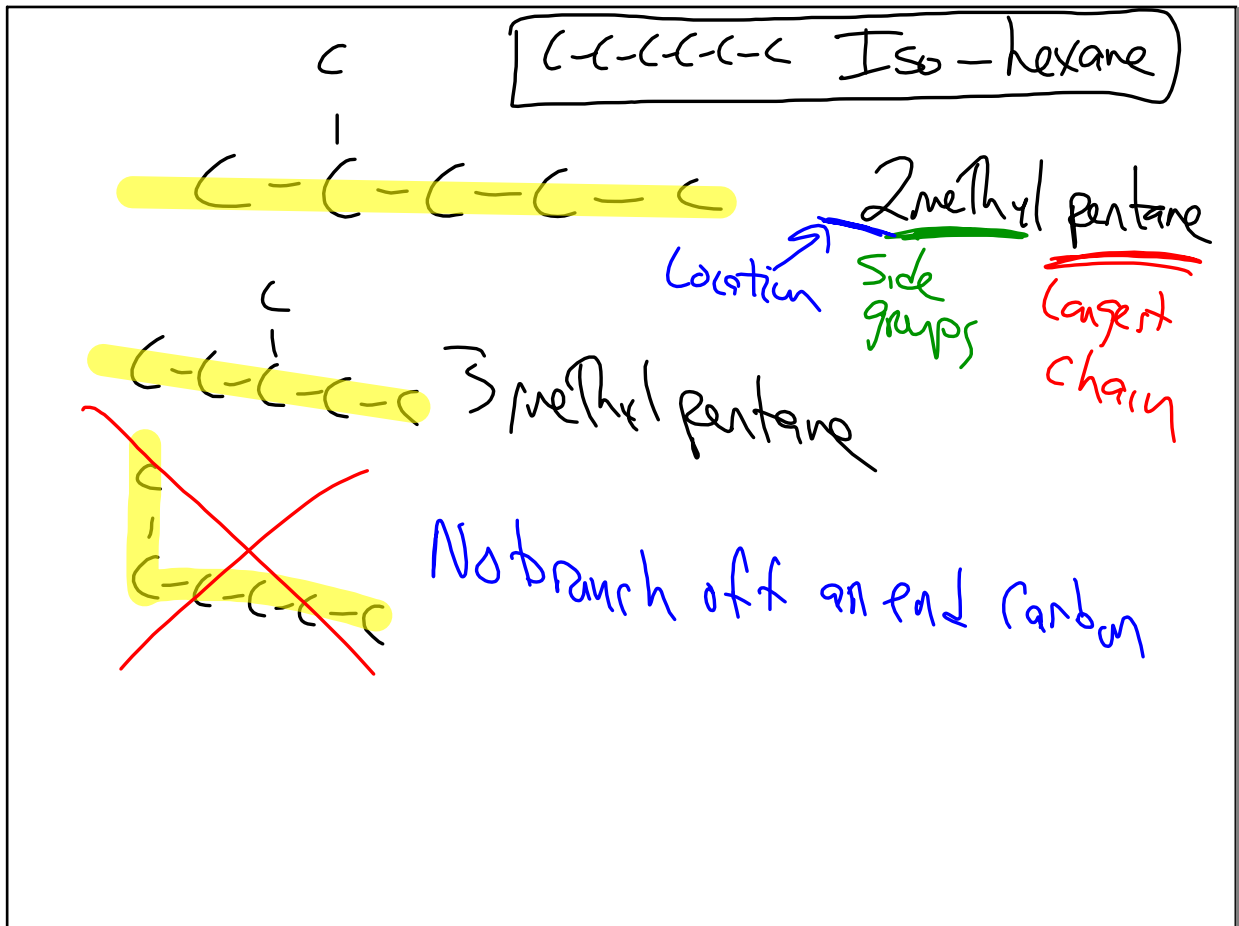


Apr 17-8:17 AM

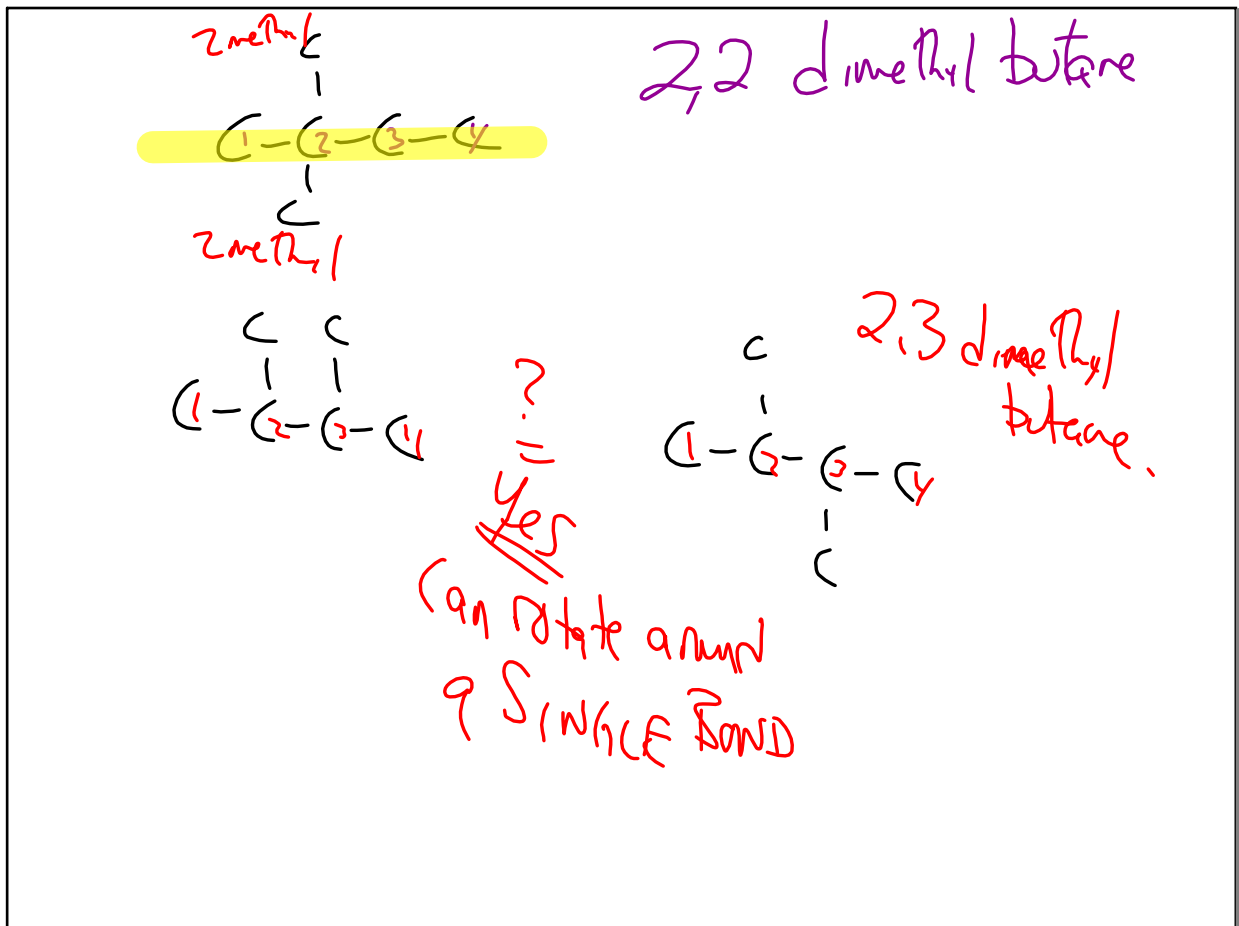


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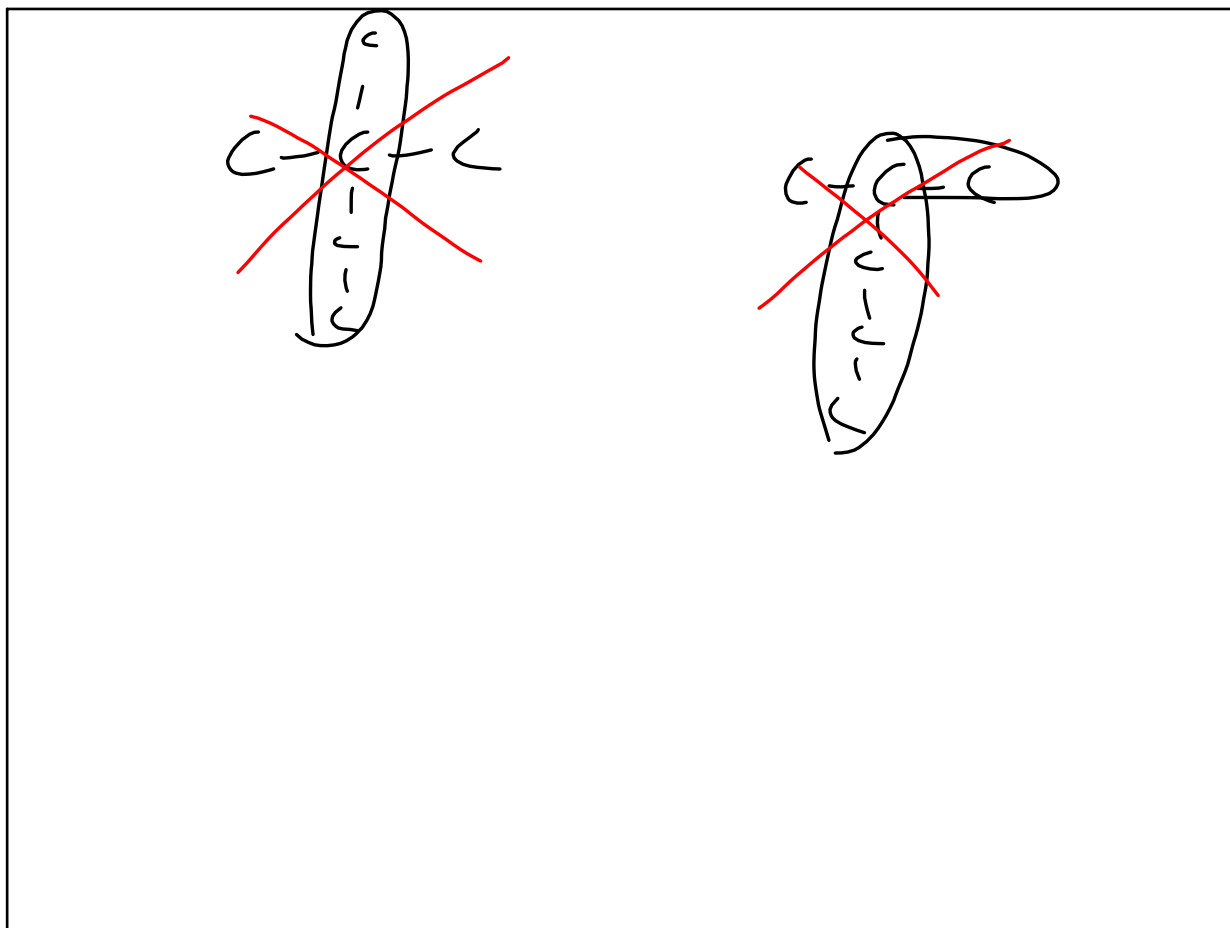




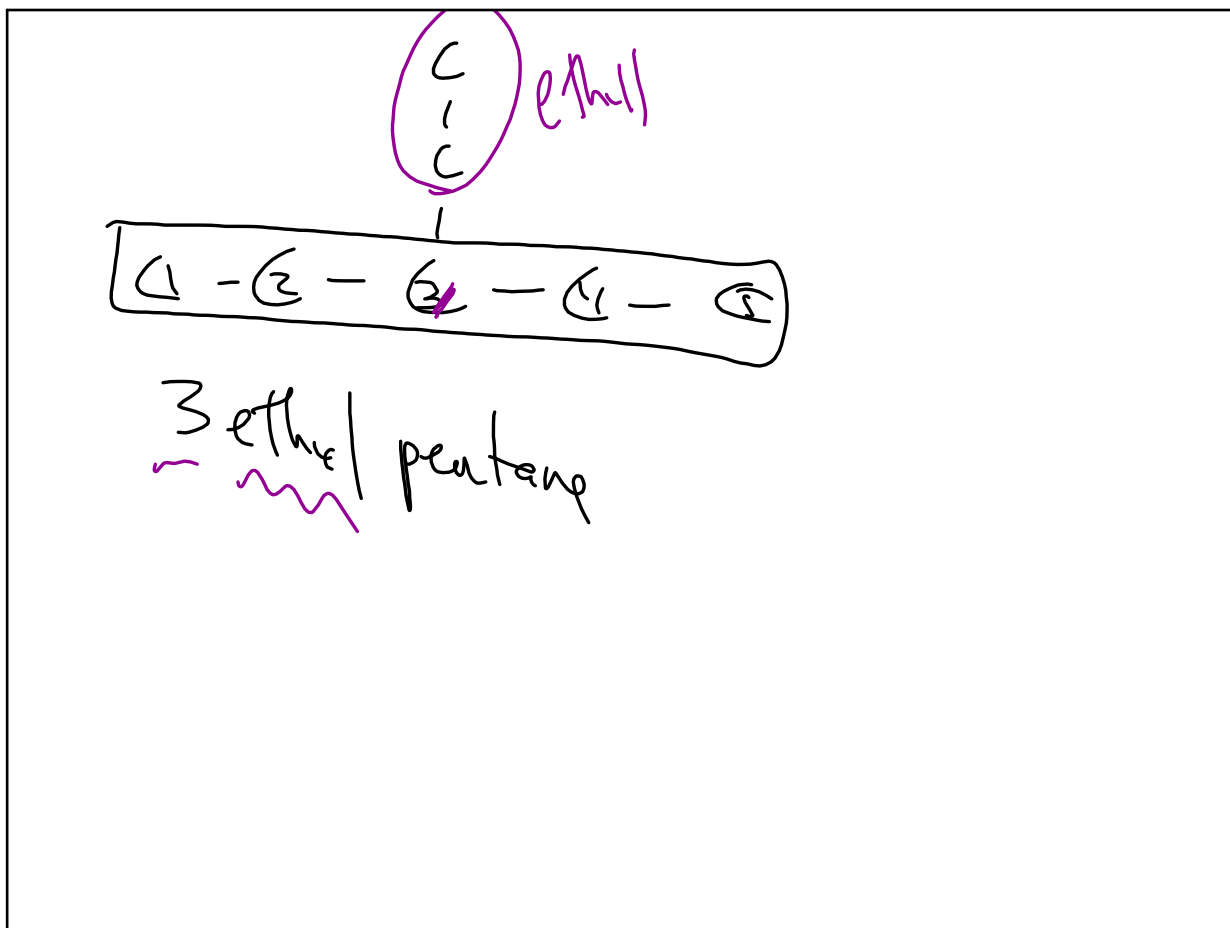
Apr 17-8:49 AM



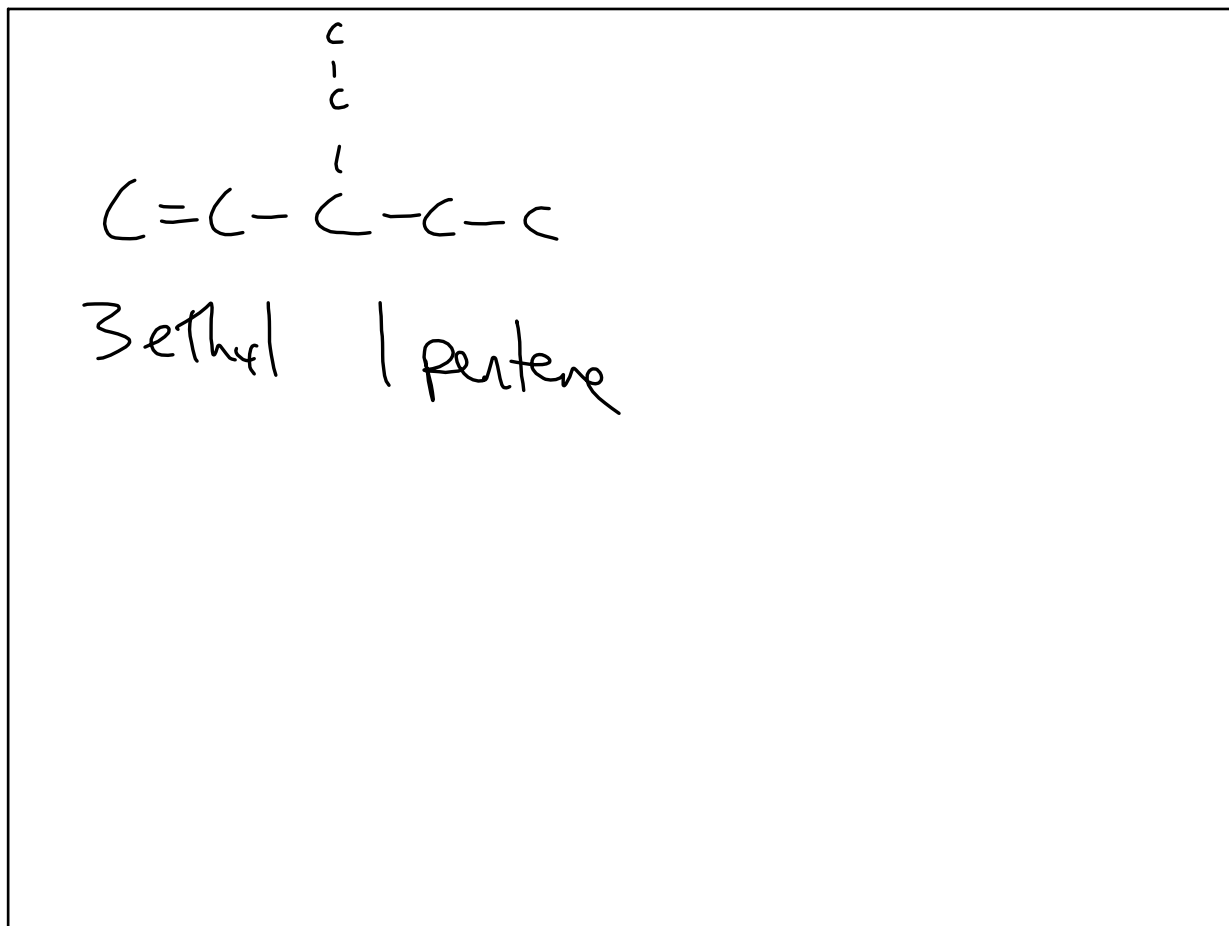
Apr 17-8:53 AM



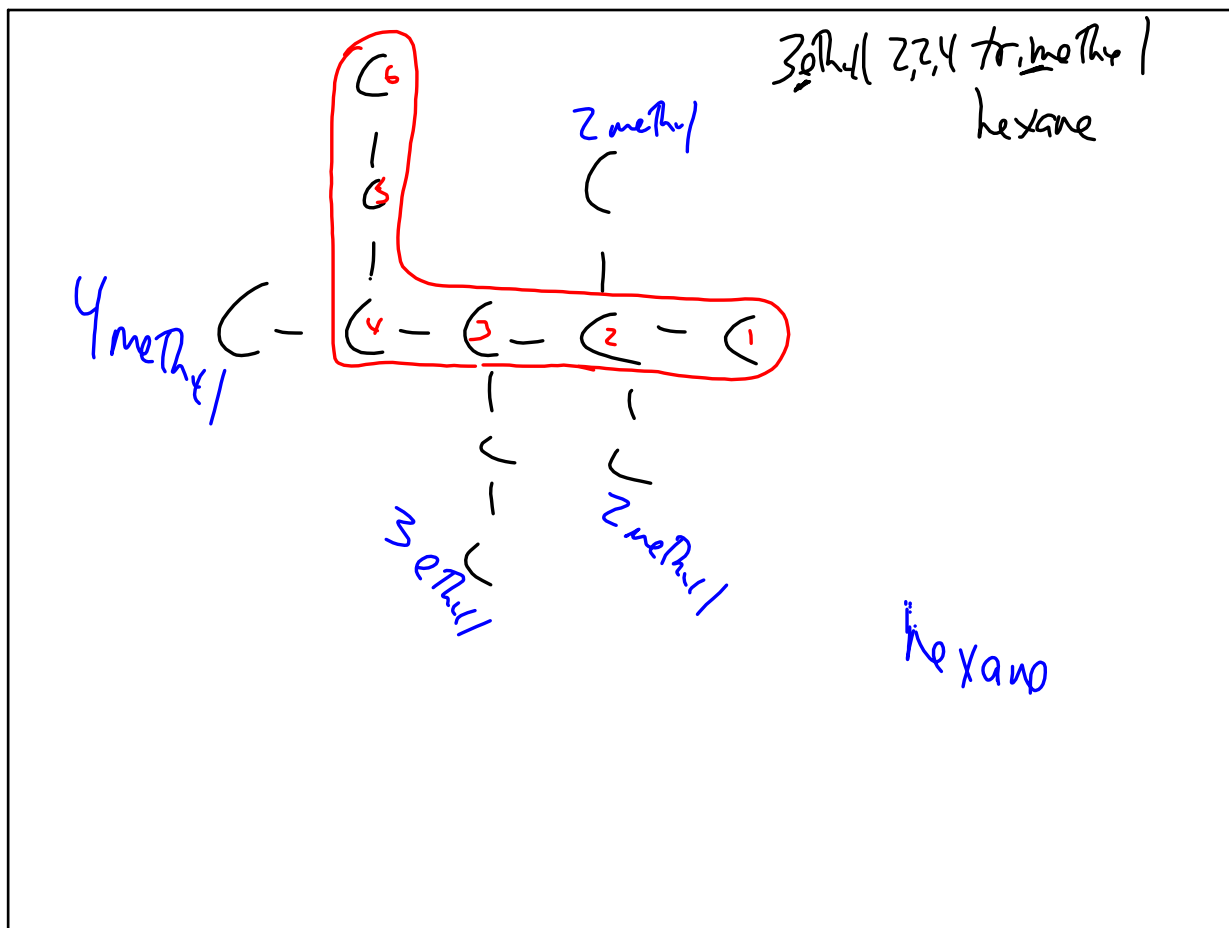
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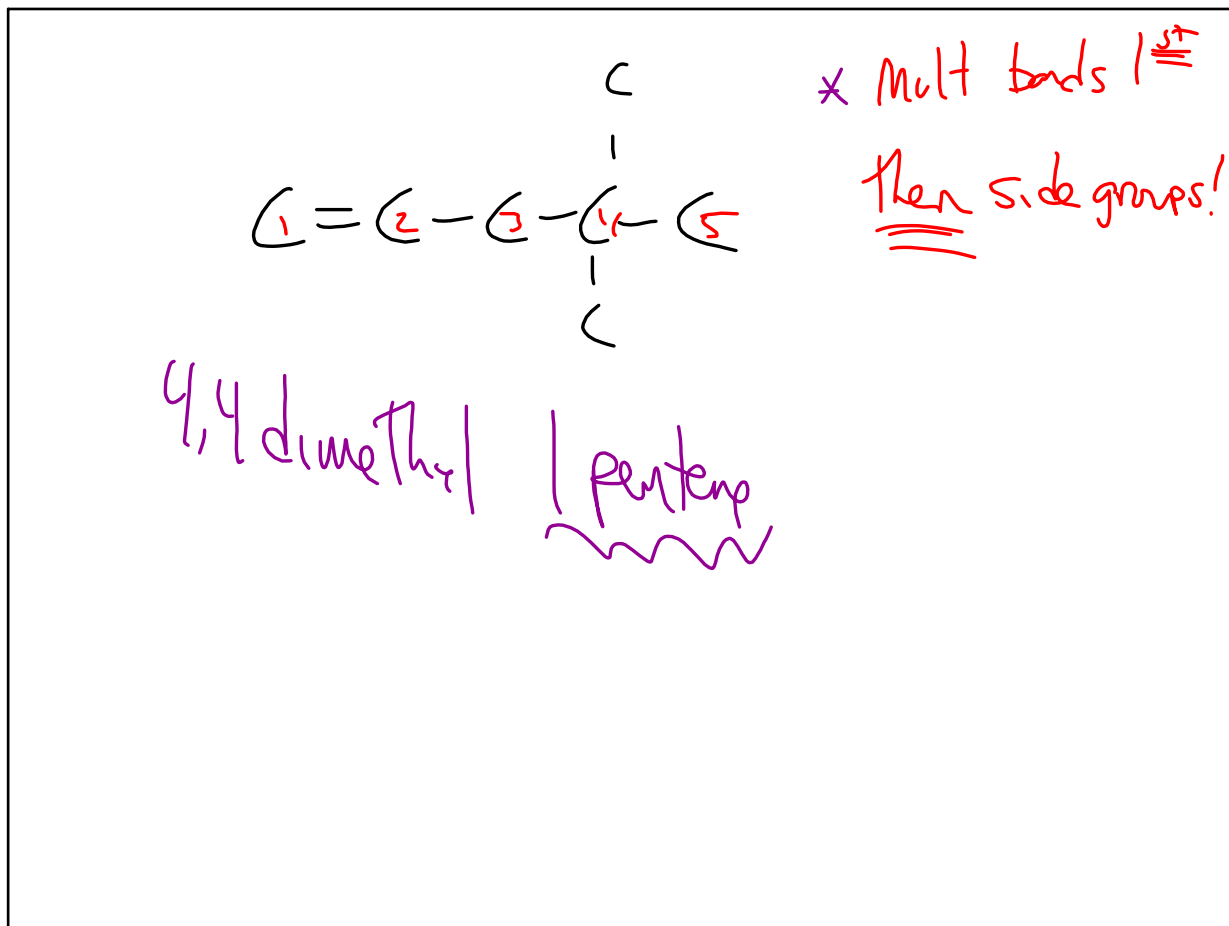
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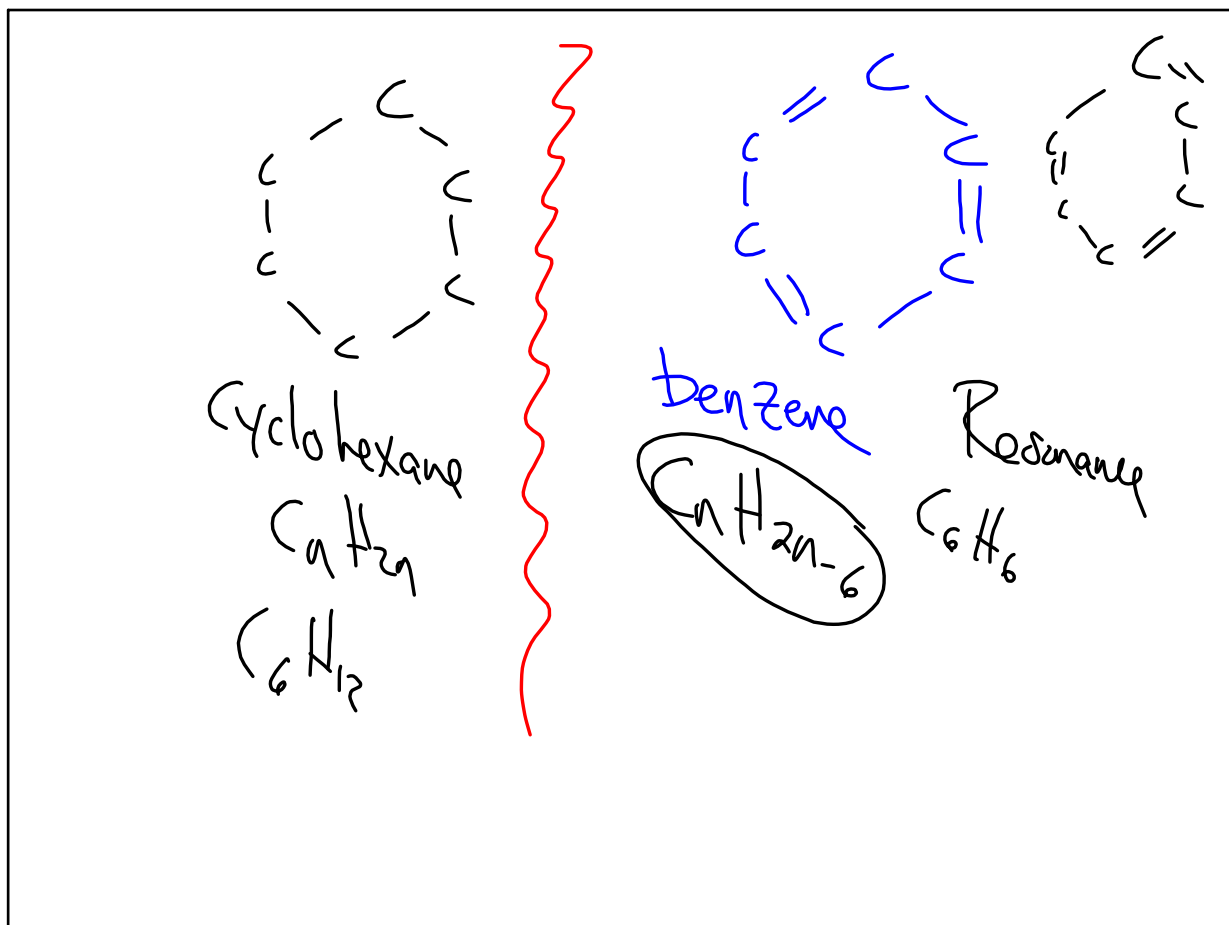
Apr 17-9:00 AM



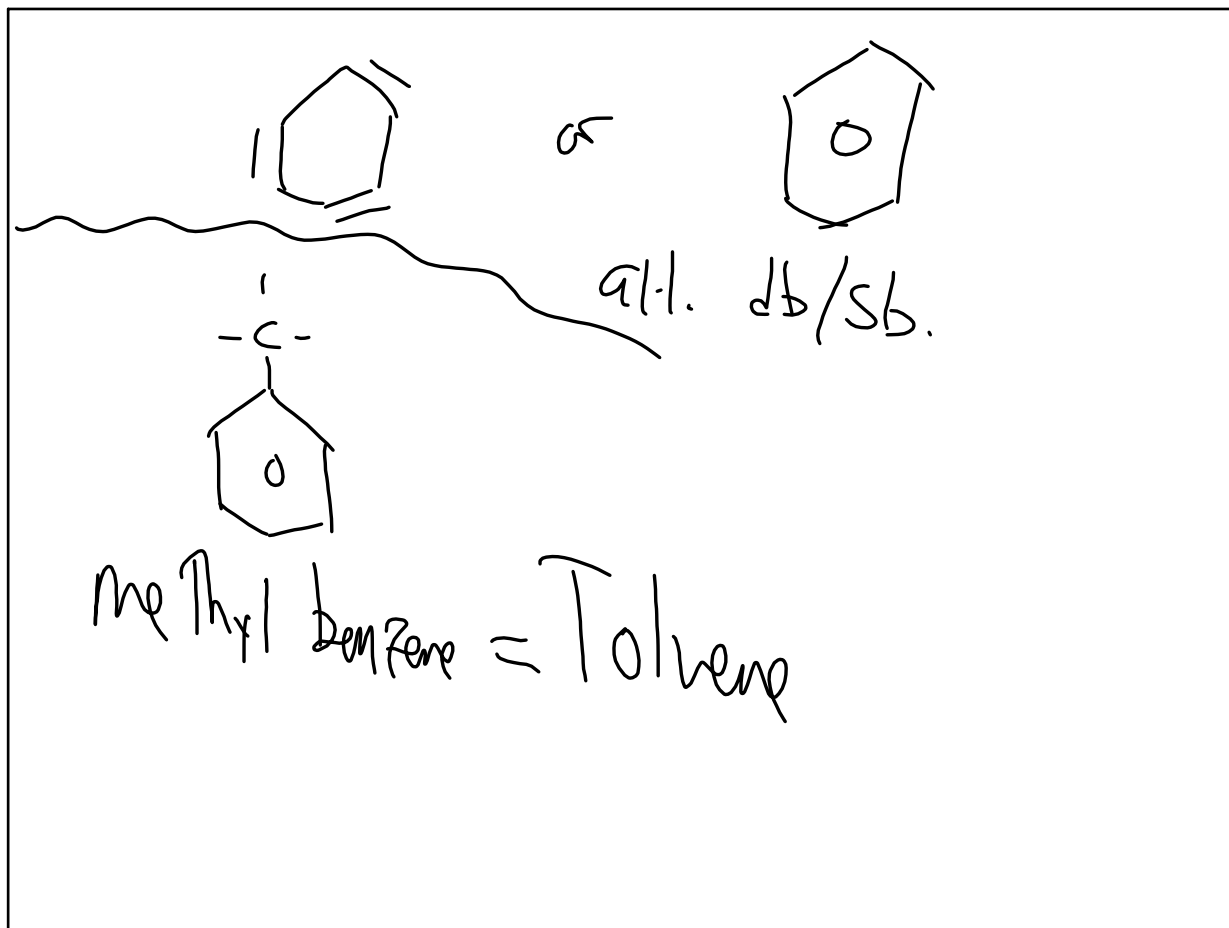
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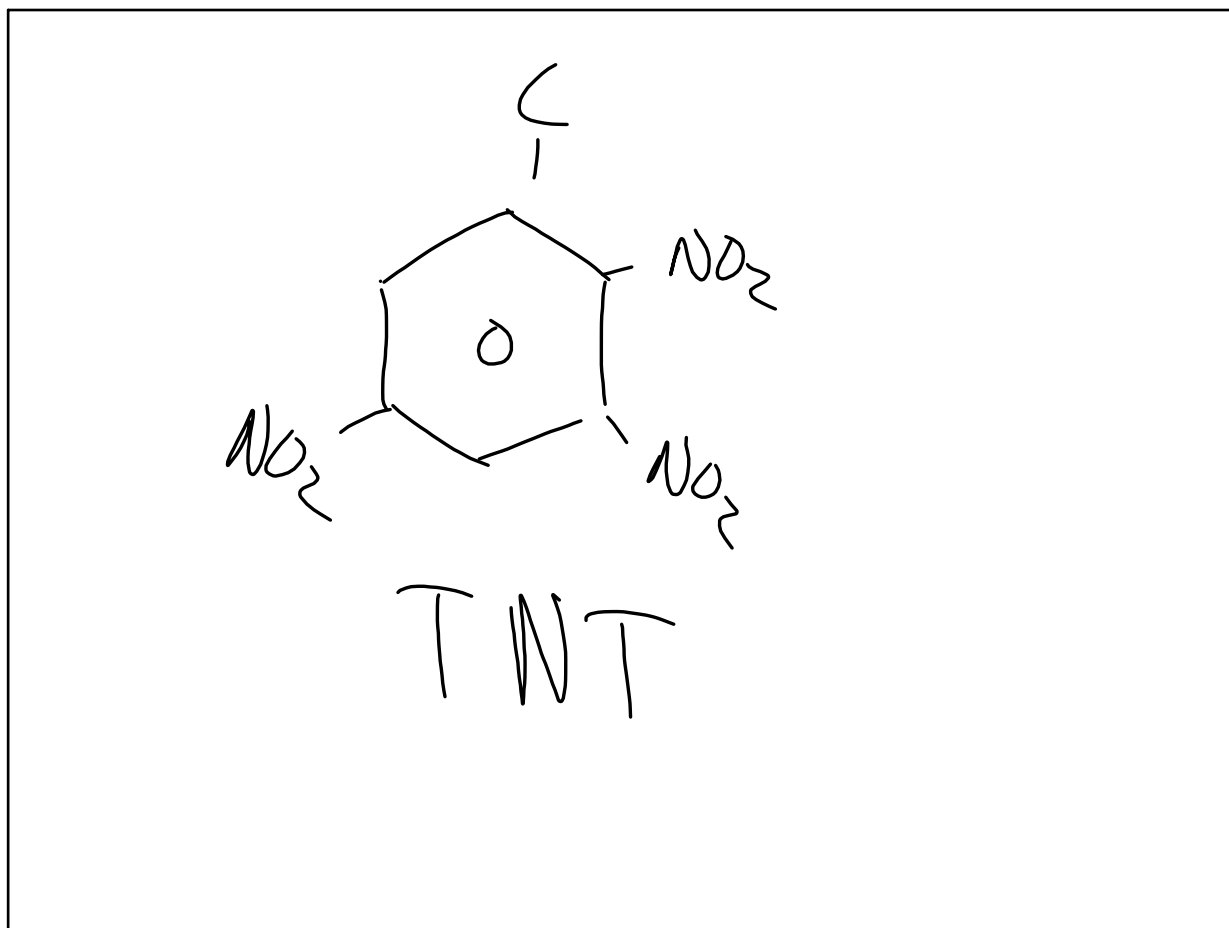
Apr 17-9:07 AM



Apr 17-9:11 AM



Apr 17-9:13 AM



Apr 17-9:15 AM

HW

Regents Packet
p 5, 6

25 / 18 + 22

Apr 17-9:15 AM