(18) **Today**

Next Class (19)

Section 3.5 - 3.7 Conformations of Alkanes

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Chap 4 Cycloalkanes Section 4.1 Naming Cycloalkanes and Halogen Substituents

Section 4.2 cis-trans isomerism

(20) Second Class from Today

Third Class from Today (21)

Section 4.2 cis-trans isomerism

Sections 4.3 – 4.8 Stability of Cycloalkanes and Conformations of Cyclohexanes

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Sections 5.1 – 5.5 Chirality and Determining the Configuration of Chiral Centers

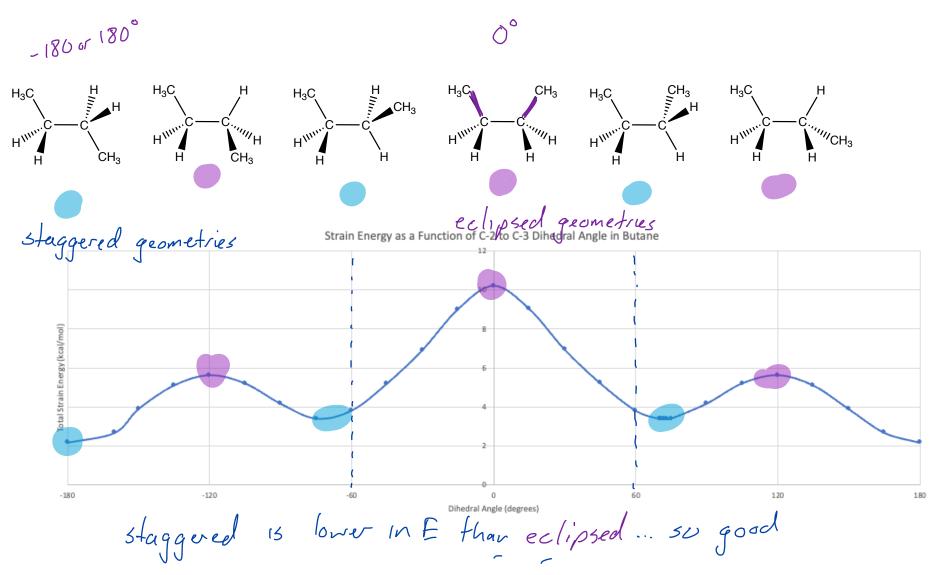
Reworked Test 1's due Wednesday Oct. 23.

On a separate piece of paper provide answers for any question for which you did not receive full credits. I do NOT need the test itself back.

same formulas, same connectivity, different 3D
relationships between the parts of the unulecule Isomers isomers same formula +stereoisomers constitutional/ same formula, same connectivity, structural different 3D relationship isomers same formula \oplus configurational conformational different isomers isomers connectivity rotation about cis/trans single bonds isomerism CH3OCH3 CHZCHZOH amine inversion chirality centers can be interconverted cannot be

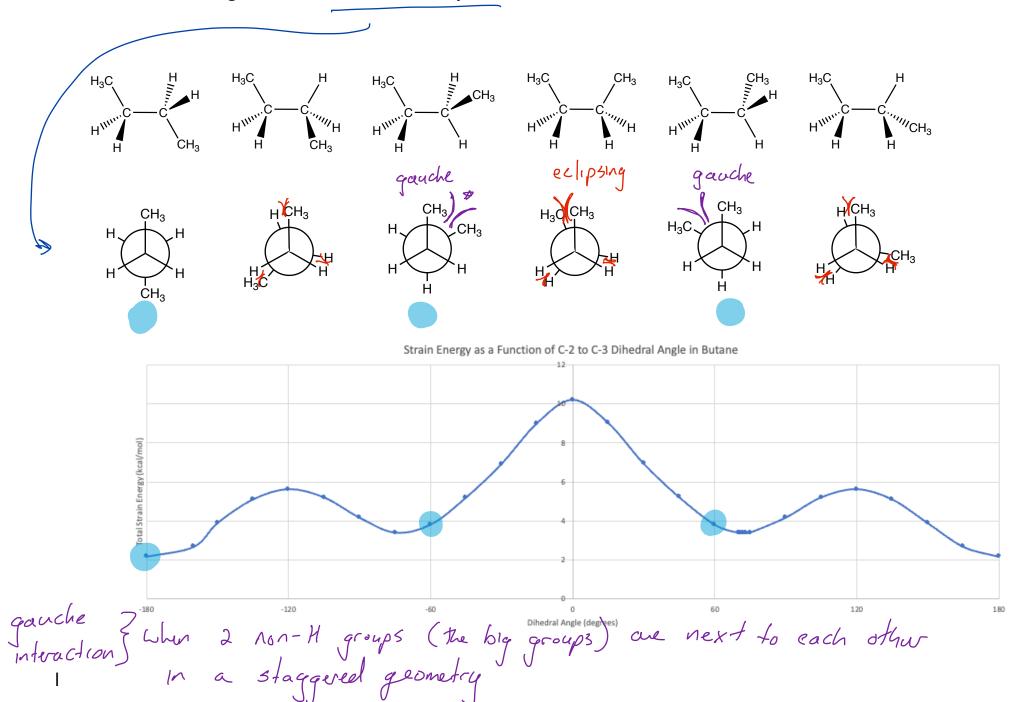
can be interconverted From one version to another Stating here cannot be interconverted from one version to another These are different rotamers

https://www.westfield.ma.edu/cmasi/organic/newman/newman-plain.html



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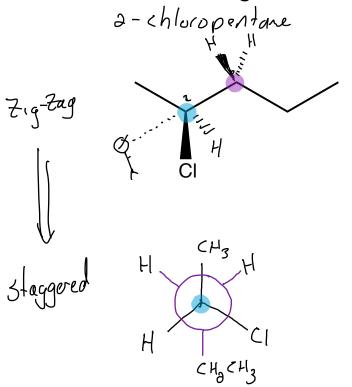
there is a gauche intraction

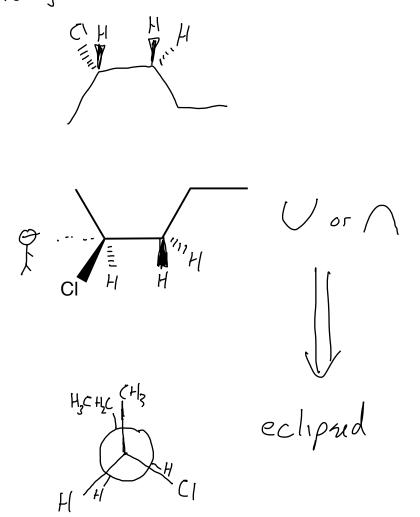


Drawn as though one is looking along a bond C_{γ} \downarrow_{o} C_{ζ}

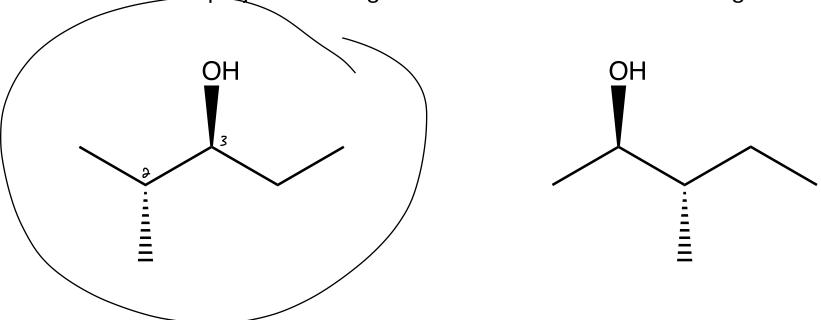
Front carbon is a where three bonds come together

Back carbon is a large circle





Draw the Newman projection along the C2 to C3 bond in the following structure



Draw the Newman projection along the C₃ to C₂ bond in the following structure



Draw the Newman projection along the C₂ to C₃ bond in the following structure

