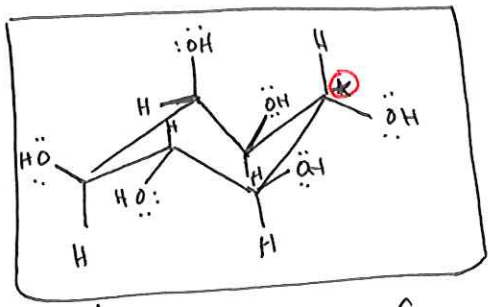
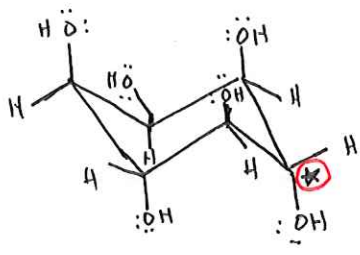
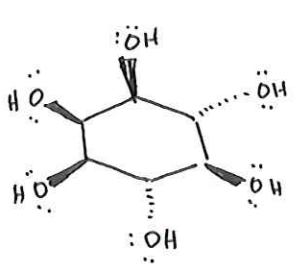
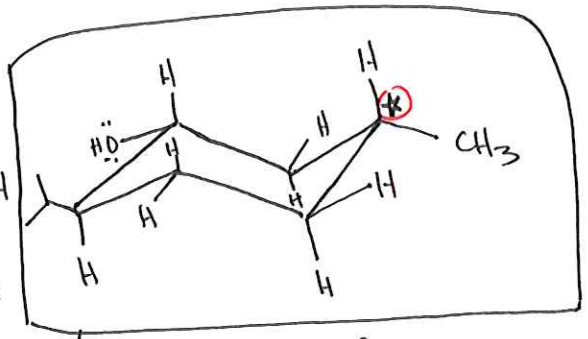
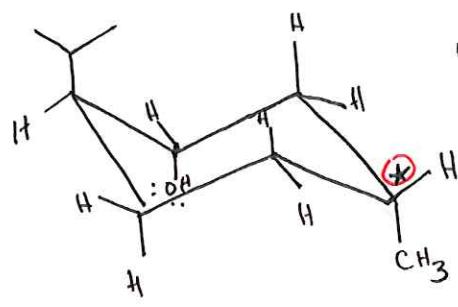
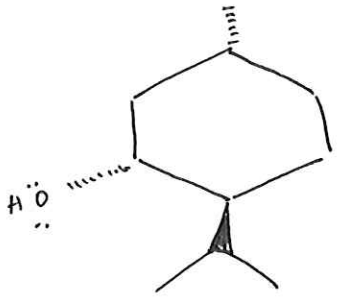


Assignment # 6 - Conformers Answer Key.

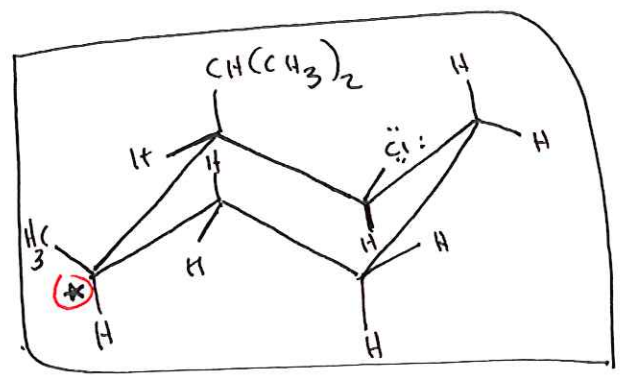
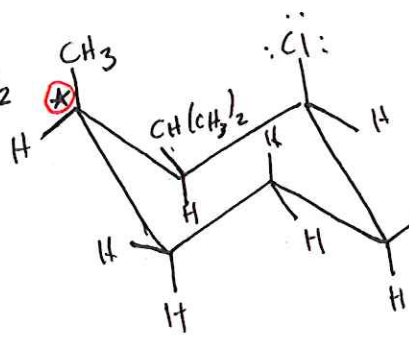
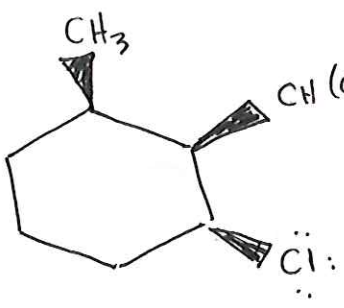
1.



↳ better conformer as 5 OH groups are equatorial.



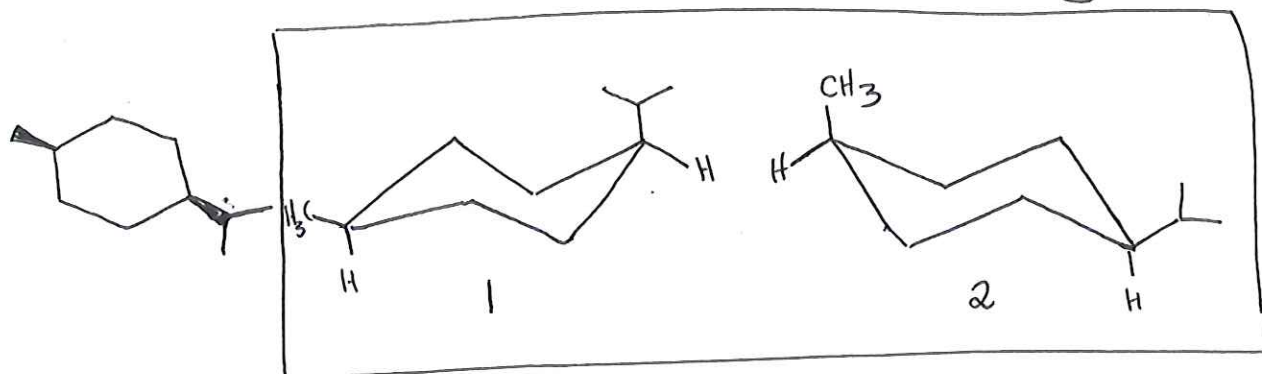
↳ better conformer as all 3 groups are equatorial.



→ although the largest group is axial, 2 groups are equatorial. 'Pr is only somewhat larger than CH<sub>3</sub>, and the CH<sub>3</sub> ↔ Cl 1,3 diaxial interactions are avoided.

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Assignment #6 - Conformers Answer Key.

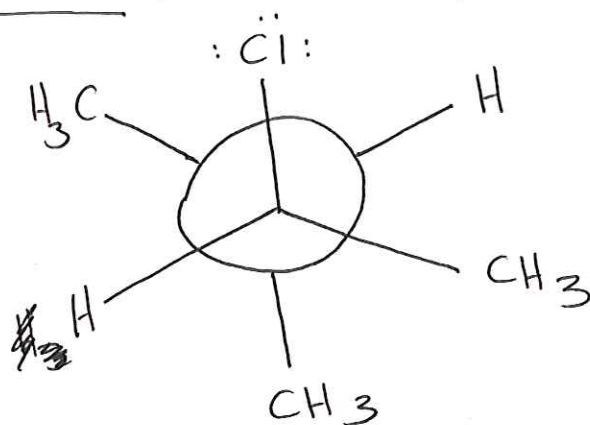
2.a)



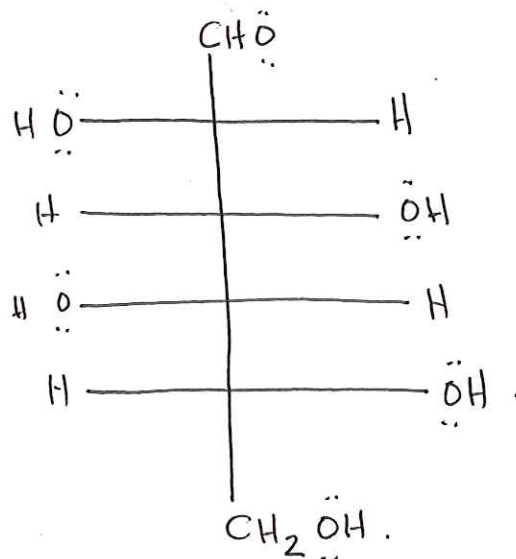
b) → Conformer 2 is more stable because the larger <sup>i</sup>Pr substituent is in the equatorial position.

→ Since <sup>i</sup>Pr is larger than Me, the 1,3 diaxial interactions and the Gauche interactions will be greater when <sup>i</sup>Pr is in the axial position. Hence, 2 is more stable.

3.



4.



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5.

