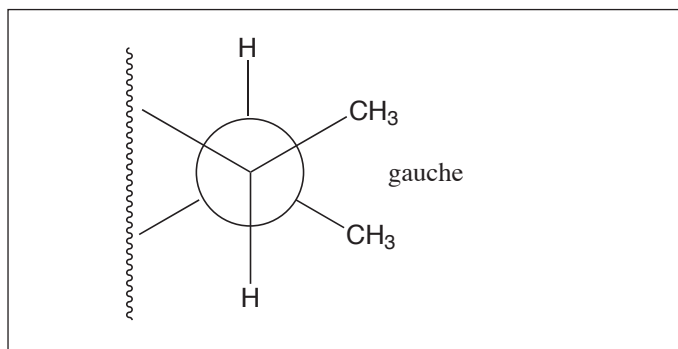
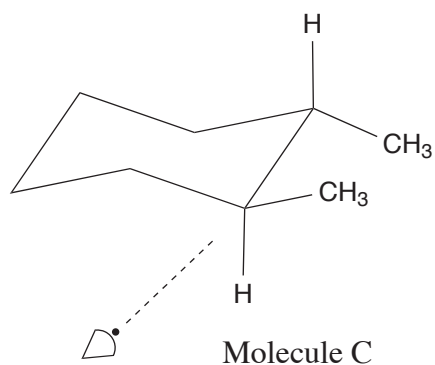


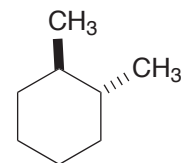
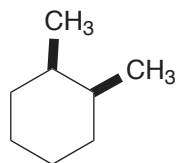
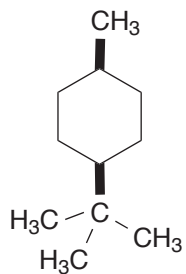
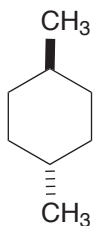
Molecular Models - Conformational Analysis

Answers to Exercises

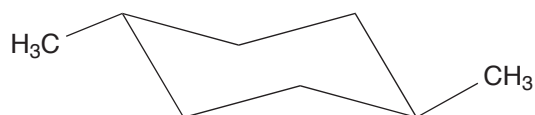
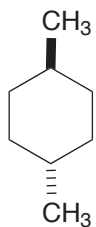
- 1 Draw Newman projection for the molecule below from the perspective indicated.



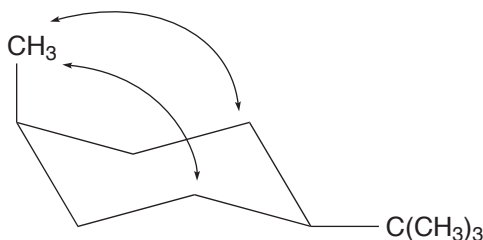
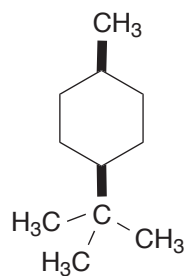
- 2 For the Newman projection you drew, indicate if there are any eclipsed bonds, or gauche butane interactions. (Answer above.)
- 3 Draw the lowest energy conformations of the molecules shown below and identify all the gauche-butane interactions in these molecules.



Answers:

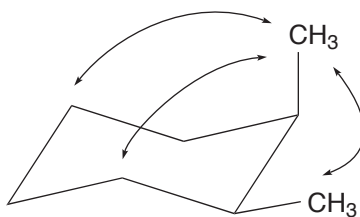
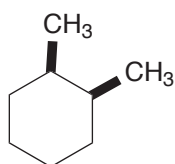


no gauche butane interactions

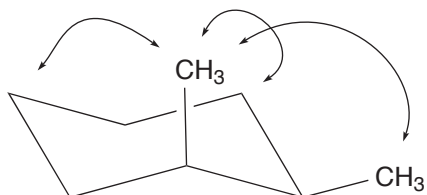


2 gauche butane interactions

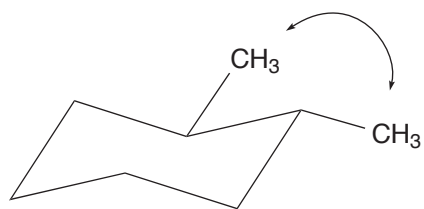
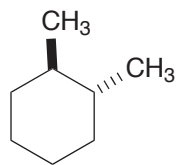
Note: You could try to draw the gauche-butane interactions of the three methyl groups in the t-butyl group, but for this exercise, we don't want you to do that.



OR



3 gauche butane interactions



1 gauche butane interaction

