CH0310, ORGANIC CHEMISTRY I

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Quiz 4, Take home, due midnight Friday, Feb. 6, 2009

Hand in before/after class
Drop off at 1101 CSC (before 5 pm)
Fax to 412-624-9861 (till midnight)
Email to lynnec@pitt.edu (till midnight, pdf file only)

Conformations of Cyclohexanes

To prepare:

- read Chapter 4, pp. 139-149
- review lecture notes from Feb, 2 and 4
- Do problems 18, 19, 22-34 in Chapter 4

You should be able to name cyclohexanes and draw chair and boat forms of substituted cyclohexanes and evaluate their relative energies.

The quiz is on the other side

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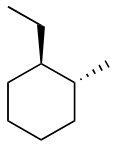
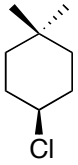
NAME SIGNATURE

Cyclohexane Conformations

Answer the following questions about molecules A and B.



A



B

1) Give IUPAC names for **A** and **B**. Be sure to include cis and trans, if needed. (2 points)

2) Draw all possible chair conformations of both **A** and **B.** (6 points)

3) Calculate the relative energies of your chair conformations in **A** and **B** by using the ΔG^{o} values in Table 4-3 on page 145 of the text. (2 points)