AP/IB-II: Alkanes & cycloalkanes nomenclature Name:

- 1. Write the structural formulas for each of the following. For those with common names, rename them by IUPAC a. 2,3-Dichloropentane
 - b. *tert*-Butyl iodide
 - c. 3-Ethylpentane
 - d. 2,3,4-Trimethyldecane
 - e. 4-Isopropylnonane
 - f. neo-Pentyl chloride
 - g. iso-Butyl alcohol
 - h. 1,1-Dimethylcyclopropane
 - i. cis-1,2-Dimethylcyclobutane
 - j. trans-1-ethyl-3-methylcyclohexane
 - k. iso-hexyl chloride
- 2. Write the structures of two chair conformations of 1-tert-butyl-1-methylcyclohexane. Which conformation would you predict as the most stable?
- 3. Consider each pair of structural formulas and state whether they are the same or different compounds then name each.

