

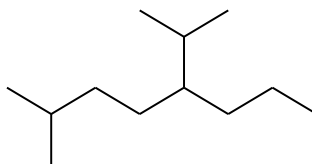
Quiz 2 (50 points)

Name _____ KEY _____

1. Draw the structure for the following compound

(10 points)

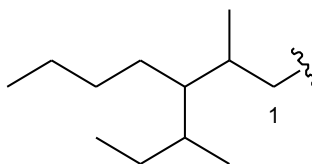
2-methyl-5-(1-methylethyl)octane



2. Draw the substituent described by the following name (use a "wavy" line to show the end of the substituent).

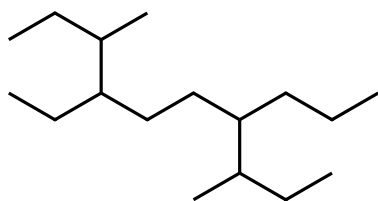
(10 points)

(2-methyl-3-(1-methylpropyl)heptyl)



3. Name the following compound:

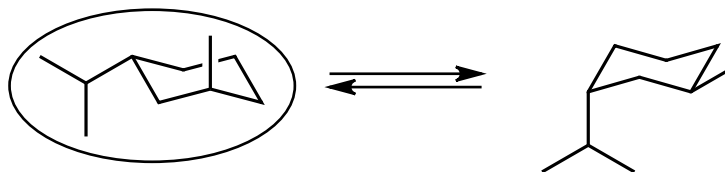
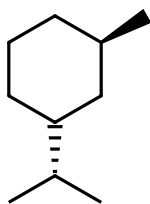
(10 points)



Answer: 4-ethyl-3,8-dimethyl-7-propyldecane

4. Draw the two chair conformations of the molecule below, circle the lowest energy chair, and provide an IUPAC name for the compound.

(20 points)



Lowest energy chair

trans-1-isopropyl-3-methylcyclohexane

or

trans-1-methyl-3-(1-methylethyl)cyclohexane