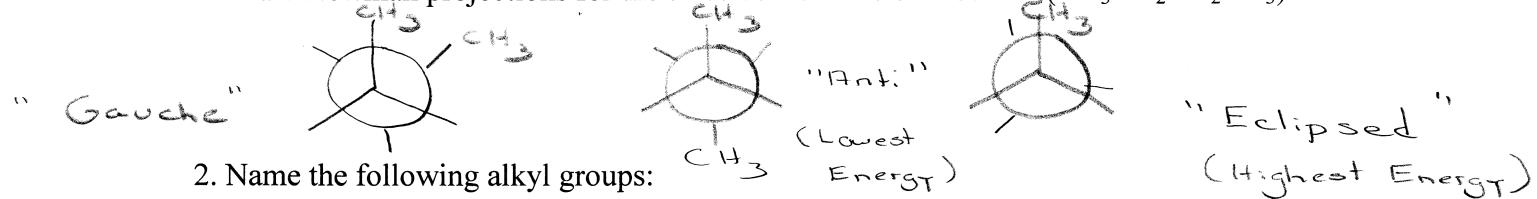
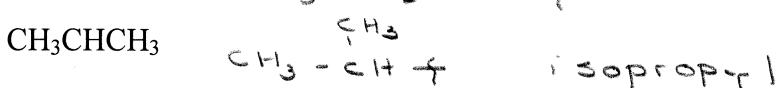
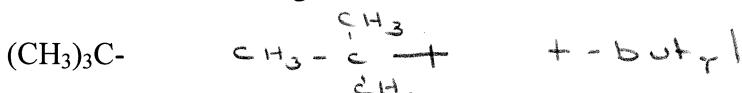
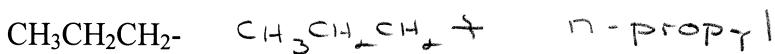
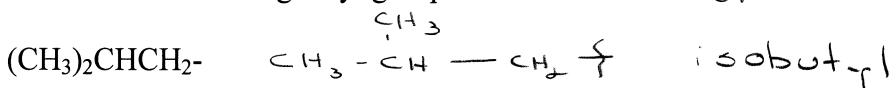


Chapter 3: "Alkanes" Worksheet

1. Draw Newman projections for the three conformers of n-butane ($\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$).

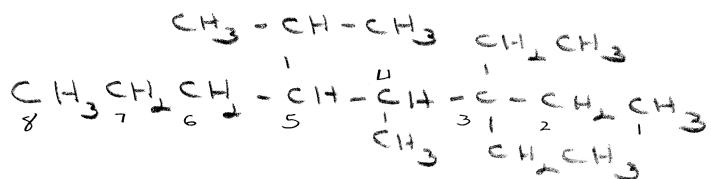


2. Name the following alkyl groups:



3. Given the following: $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{CH}(\text{CH}_3)_2)\text{CH}(\text{CH}_3)\text{C}(\text{CH}_2\text{CH}_3)_3$

(a) Draw the molecule.



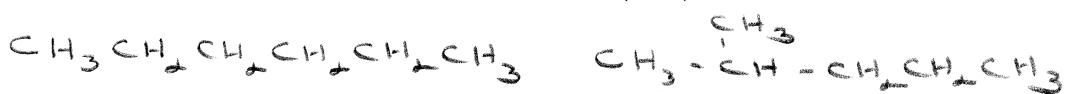
(b) Find and number the longest carbon chain.

8 "octane"

(c) Name this compound.
 $3,3\text{-diethyl}-5\text{-isopropyl}-4\text{-methyl}$
 octane

$3,3\text{-diethyl}-5\text{-isopropyl}-4\text{-methyl}$ octane

4. Draw all of the isomers of hexane, $\text{CH}_3(\text{CH}_2)_4\text{CH}_3$.



Also try naming them....