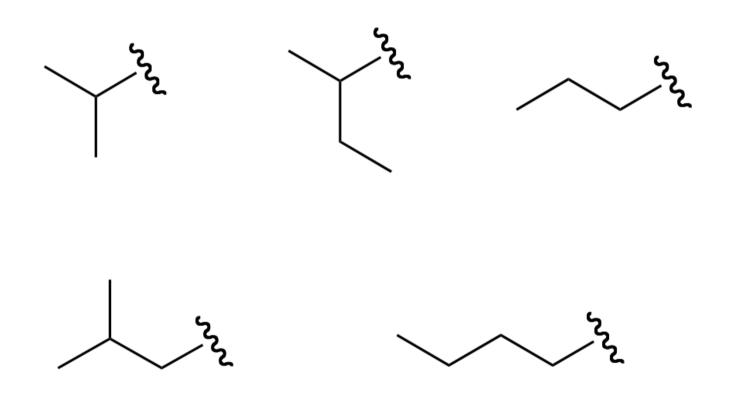
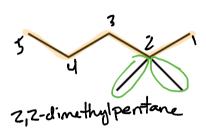
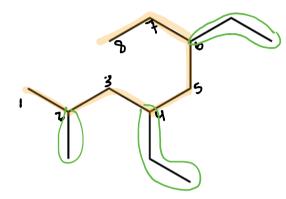
Completed in class Name each substituent.



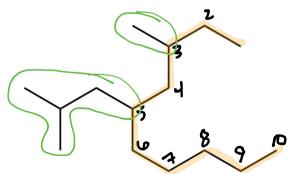
Identify each type of carbon.

Name the alkanes.





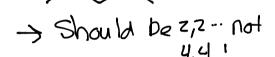
4,6-diethyl-z-methyloctare



5-isolatyl-3-methyldecone

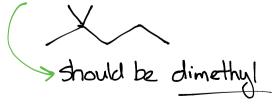
What's wrong with each name? How would you fix it?





- See Frevious Slide

2,2-methylpentane



2-dimethylpentane

-> not enough #'s

-> should be Z, Z-...

What's wrong with these names?

6-ethyl-2-methyl-4-pentyloctane

not longest chain

3-methyl-5-isobutyldecane

-> substituents not

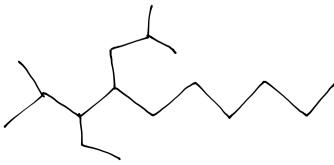
Draw the structure for each name.

2,2,3-trimethylpentane

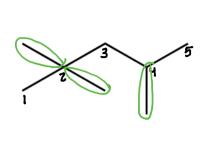


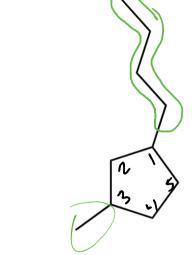
3-ethyl-2,5-dimethylhexane

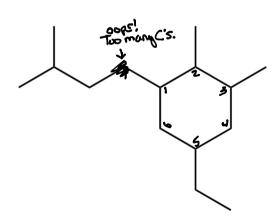
3-ethyl-4-isobutyl-2-methyldecane



Name the molecules.





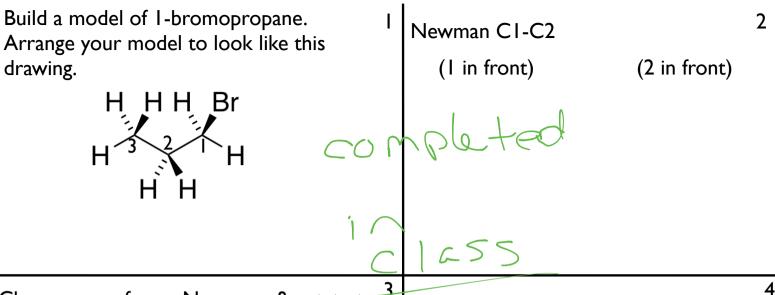


1-isolaty-2,3-dimethy-5-ethyl cyclohexane

Determine whether each reaction is oxidation/reduction.

$$H_3C$$
 CH_3 H_2 , Pt OH H_3C CH_3

$$CH_3$$
 O_2 $CO_2 + H_2O$



Choose one of your Newmans & rotate to find the highest & lowest energy conformers.

lowest

highest

Redraw the two structures on the left as 3-D representations.

How do you know which bond to look down?

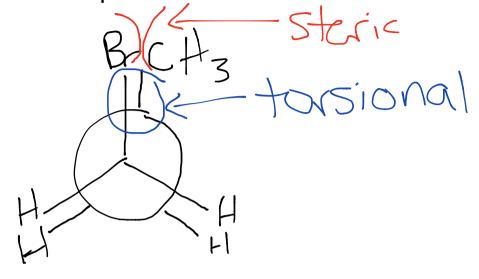
How do you know which carbon to make front and which to make back?

How do I know which direction to rotate?

How do I go back and forth between skeletal/3-D drawing & Newmans?

Using the 1-bromopropane example, draw illustrations of torsional strain

and steric strain.



Draw an example of angle strain.

