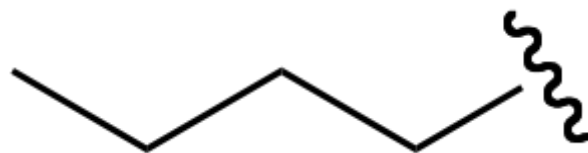
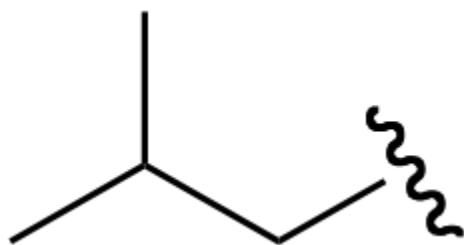
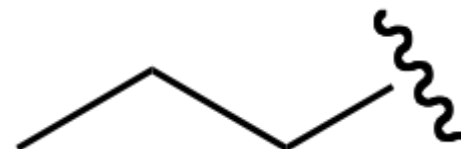
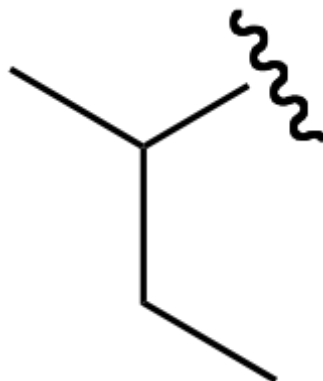
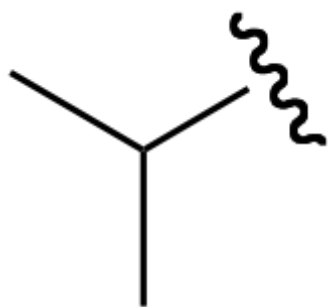
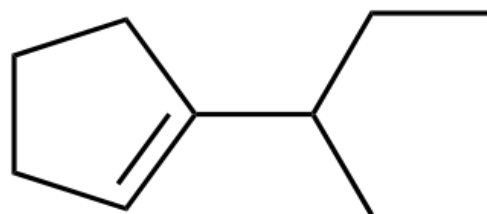
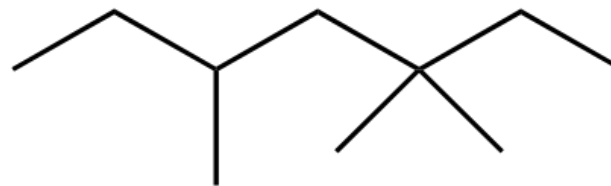
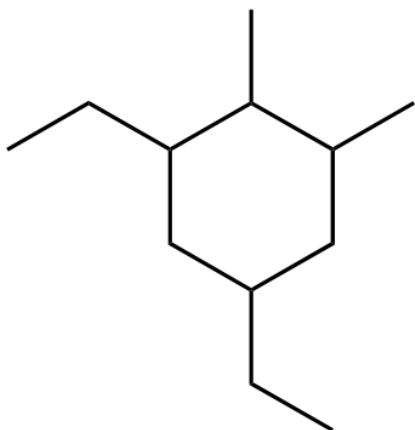


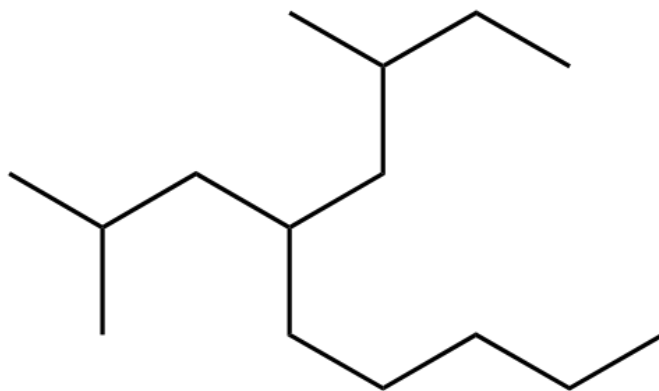
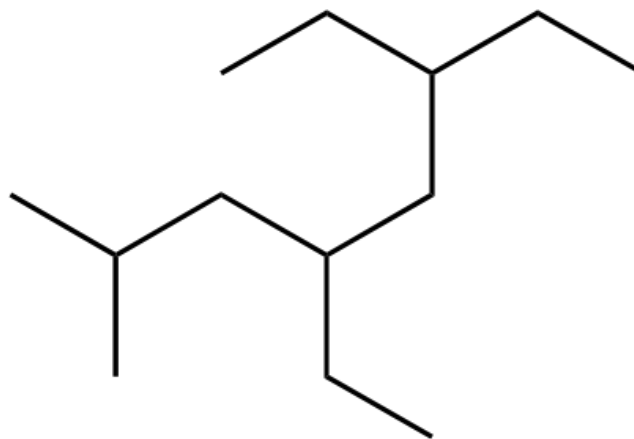
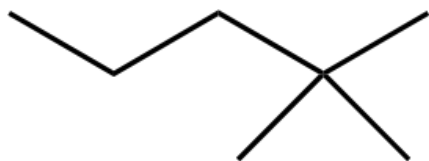
# Name each substituent.



# Identify each type of carbon.



# Name the alkanes.



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

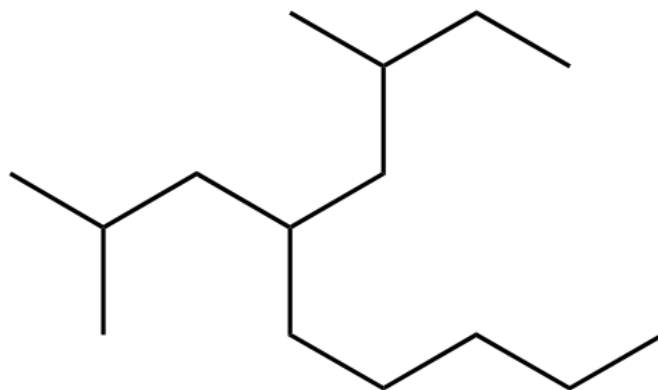
4,4-dimethylpentane

1,1,1-trimethylheptane

2,2-methylpentane

2-dimethylpentane

What's wrong with these names?



6-ethyl-2-methyl-4-pentyloctane

3-methyl-5-isobutyldecane

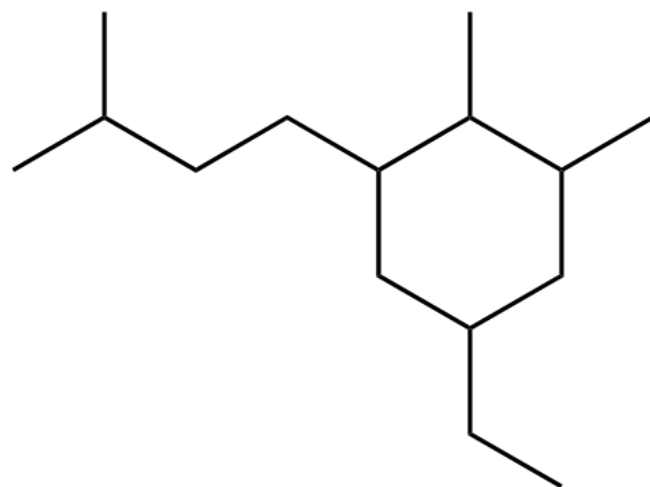
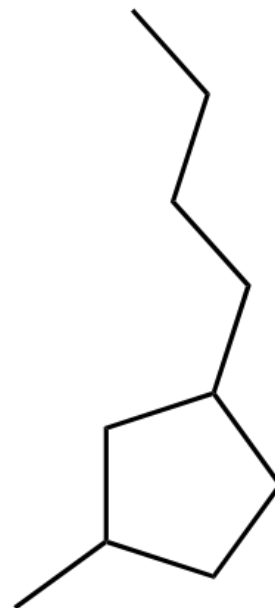
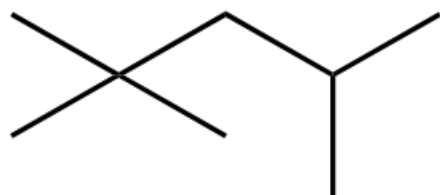
# Draw the structure for each name.

2,2,3-trimethylpentane

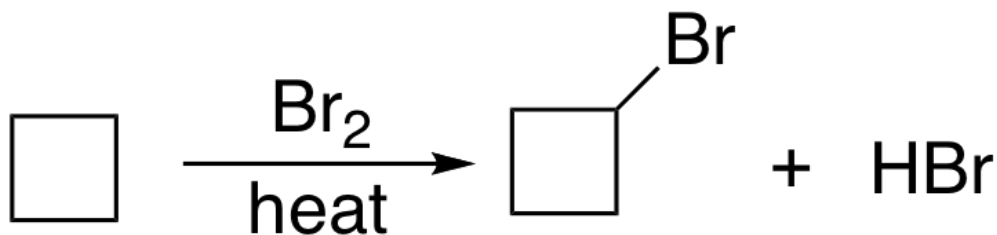
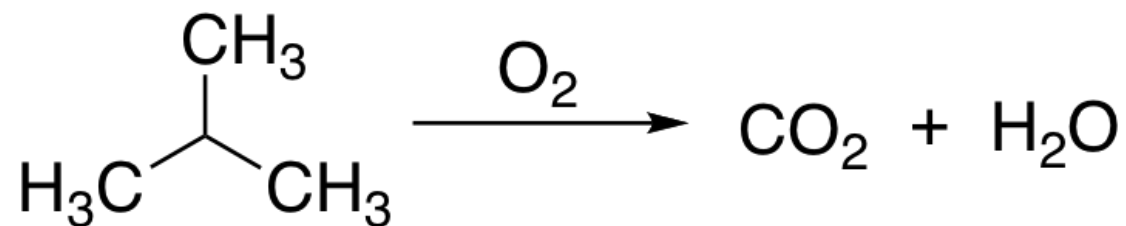
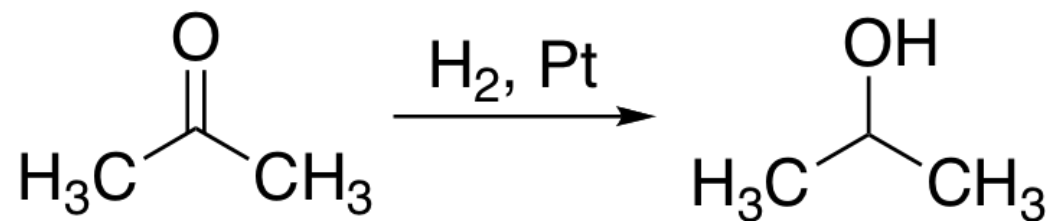
3-ethyl-2,5-dimethylhexane

3-ethyl-4-isobutyl-2-methyldecane

# Name the molecules.

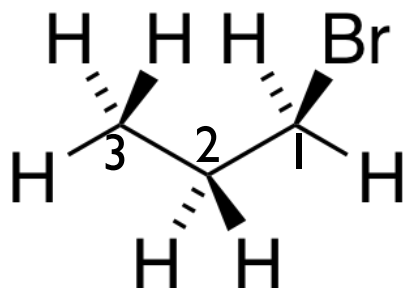


Determine whether each reaction is oxidation/reduction.





Build a model of 1-bromopropane.  
Arrange your model to look like this  
drawing.



1

Newman CI-C2

(1 in front)

(2 in front)

2

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

lowest

highest

3

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

4

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.

