

Name (print):

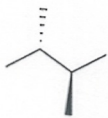
Icy

Signature:

The following quiz will begin 5 minutes into your recitation, and you will have 30 minutes to complete it. When you are finished, please flip over your quiz and sit quietly until your recitation instructor collects them.

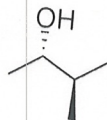
1. Are the following molecule chiral or achiral (not meso) or achiral (meso)? (8 points, 4 points each)

1a.



achiral (not meso)

1b.



chiral

2. What are the relationships between the two compounds shown? Identical, Enantiomers, or Diastereomers (8 points, 4 points each)

2a.

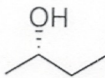


vs.

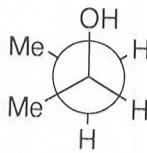


identical

2b.

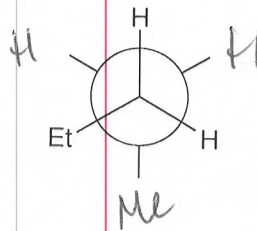
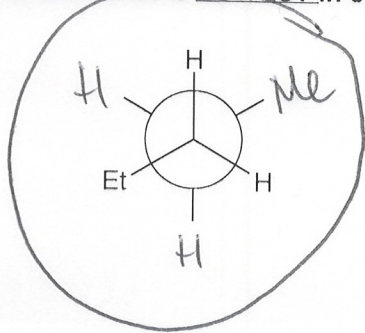
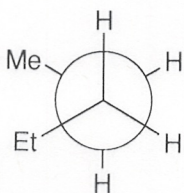


vs.

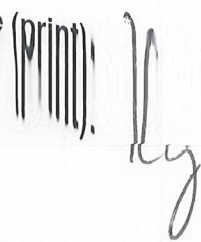


identical

3. Complete the two additional Newman projections, based upon the first Newman projection shown. Circle the one out of the 3 that is LOWEST in energy (4 points each)



Name (Print):

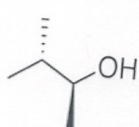


Signature:

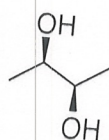
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1a.

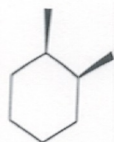
chiral

1b.

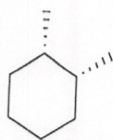
chiral

2. What are the relationships between the two compounds shown? Identical, Enantiomers, or Diastereomers (8 points, 4 points each)

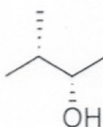
2a.



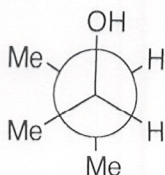
vs.

identical

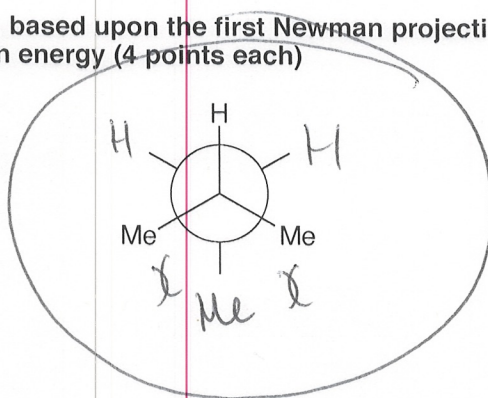
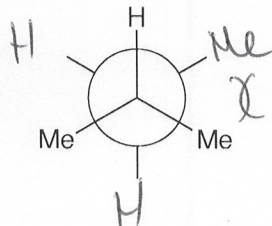
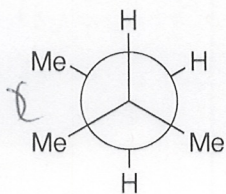
2b.



vs.

identical

3. Complete the two additional Newman projections, based upon the first Newman projection shown. Circle the one out of the 3 that is **HIGHEST** in energy (4 points each)



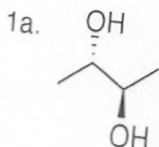
Name (print):

Key

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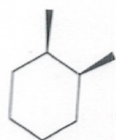
achiral (meso)

1b.

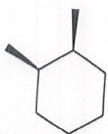
achiral

2. What are the relationships between the two compounds shown? Identical, Enantiomers, or Diastereomers (8 points, 4 points each)

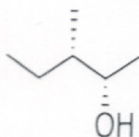
2a.



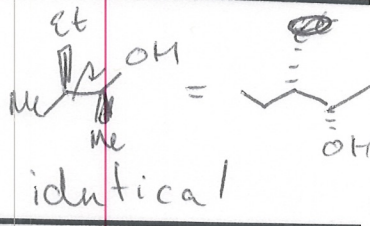
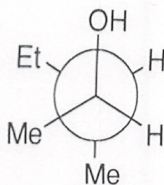
vs.

identical

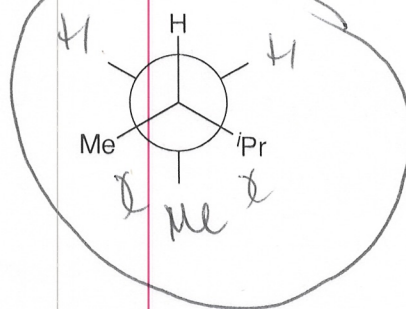
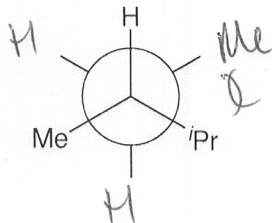
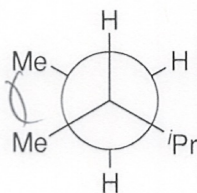
2b.



vs.



3. Complete the two additional Newman projections, based upon the first Newman projection shown. Circle the one out of the 3 that is HIGHEST in energy (4 points each)



Name (print):

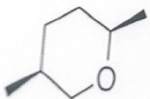
ky

Signature:

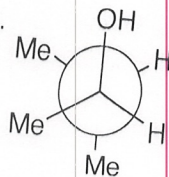
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1a.

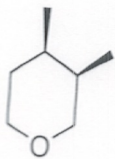
Chiral

1b.

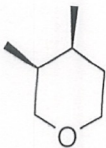
Chiral

2. What are the relationships between the two compounds shown? Identical, Enantiomers, or Diastereomers (8 points, 4 points each)

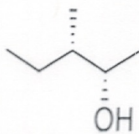
2a.



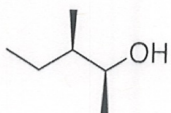
vs.

enantiomers

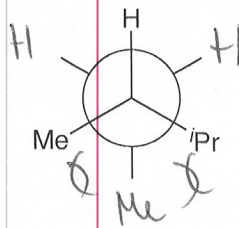
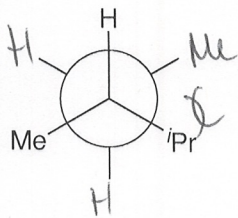
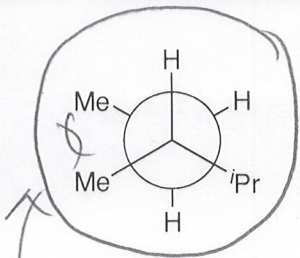
2b.



vs.

diastereomers

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Me-Me gauche
better than Me-iPr

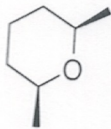
Key

Signature:

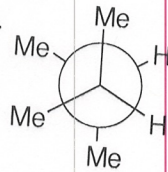
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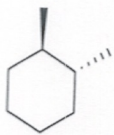
achiral (meso)

1b.

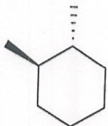
achiral

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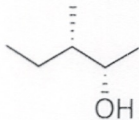
2a.



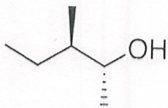
vs.

identical

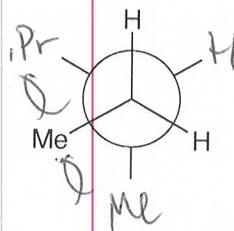
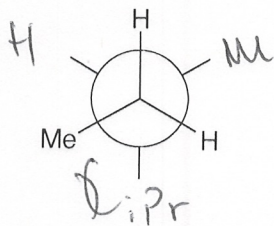
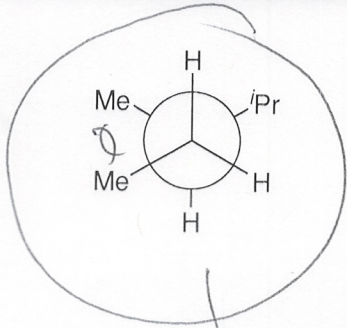
2b.



vs.

enantiomers

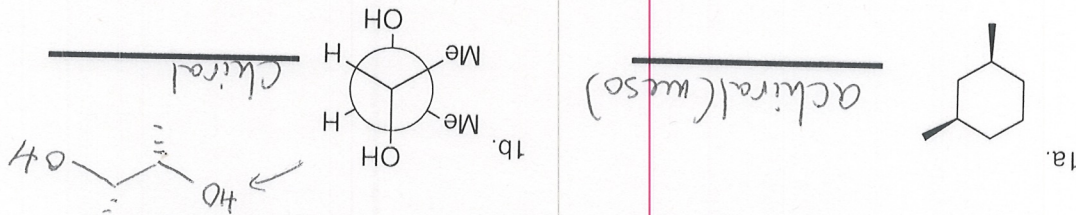
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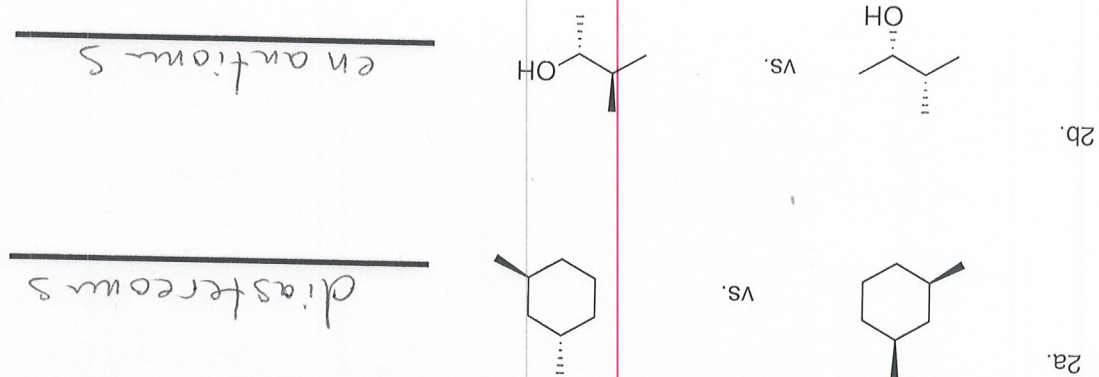
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better than
Me iPr

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