

Name (print):

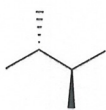
Icy

Signature:

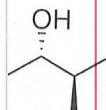
The following quiz will begin 5 minutes into your recitation, and you will have 30 minutes to complete it. When you are finished, please flip over your quiz and sit quietly until your recitation instructor collects them.

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

1a.

achiral (meso)

1b.

chiral

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

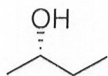
2a.



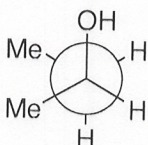
vs.

identical

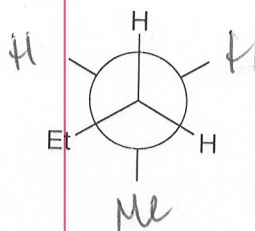
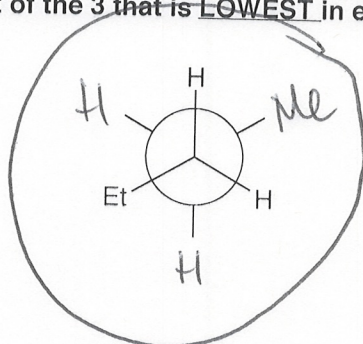
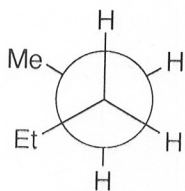
2b.



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):

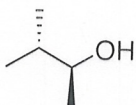
Kcy

Signature:

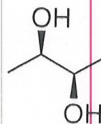
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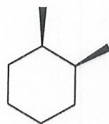
chiral

1b.

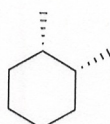
chiral

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

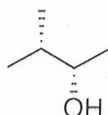
2a.



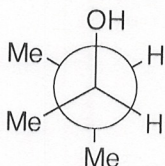
vs.

identical

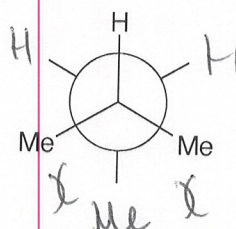
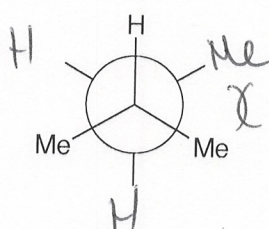
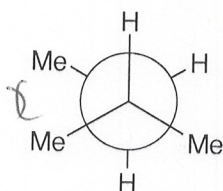
2b.



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)



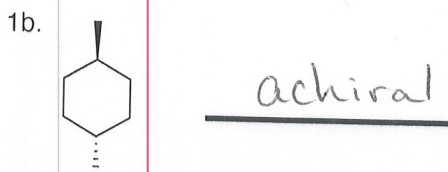
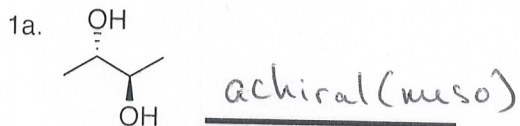


Name (print): *ky*

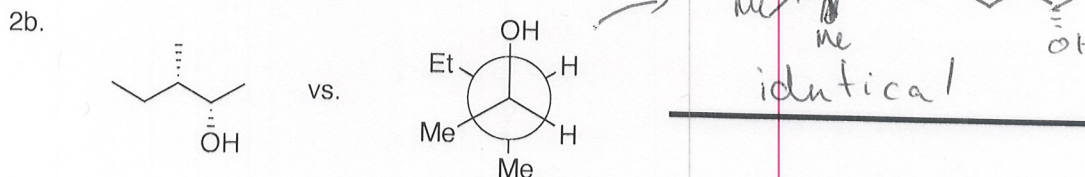
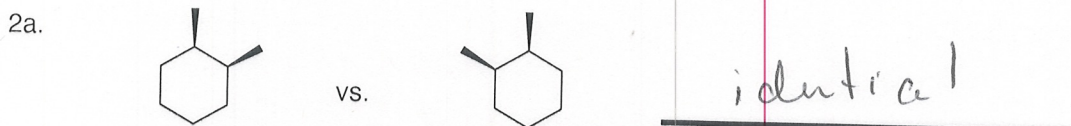
Signature:

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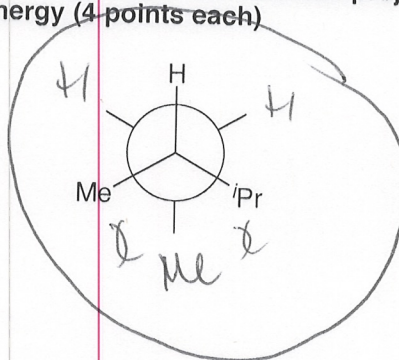
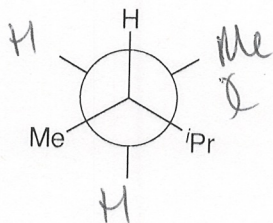
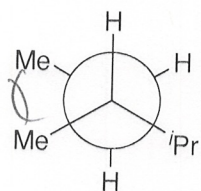
1. Are the following molecule chiral or achiral (not meso) or achiral (meso)? (8 points, 4 points each)



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



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)



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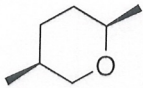
kg

Signature:

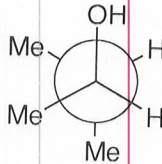
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1a.

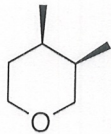
chiral

1b.

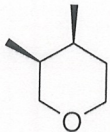
chiral

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

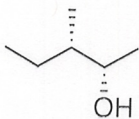
2a.



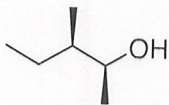
vs.

enantiomers

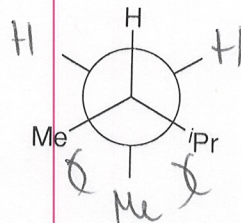
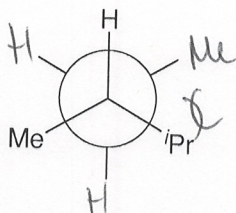
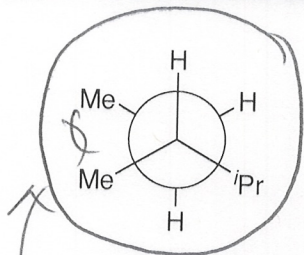
2b.



vs.

diastereomers

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)



Me-Me gauche  
better than Me-iPr



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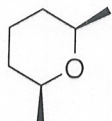
Key

Signature:

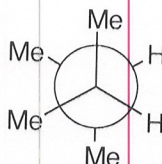
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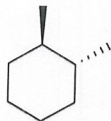
achiral (meso)

1b.

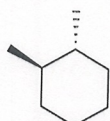
achiral

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

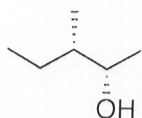
2a.



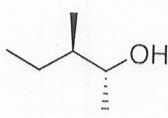
vs.

identical

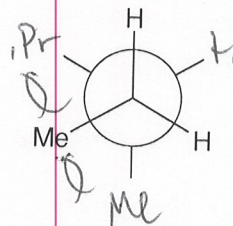
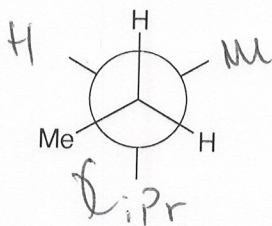
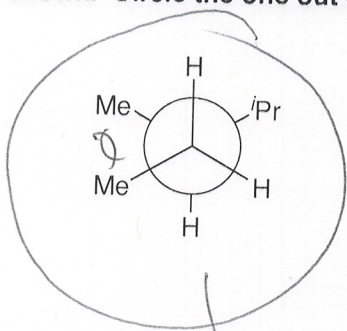
2b.



vs.

enantiomers

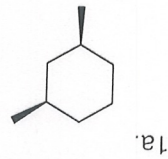
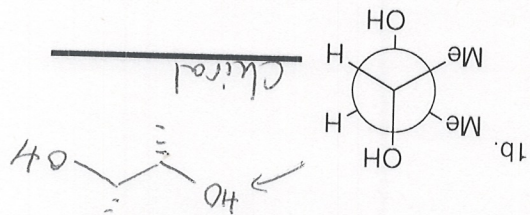
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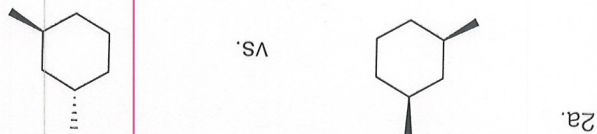
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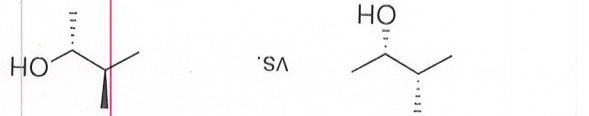


achiral (meso)

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



diastereomers



enantiomers

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)

