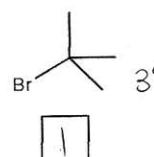
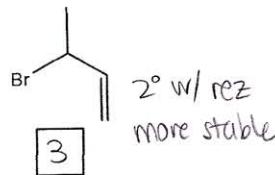
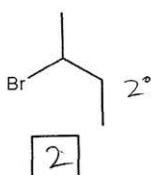
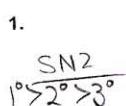
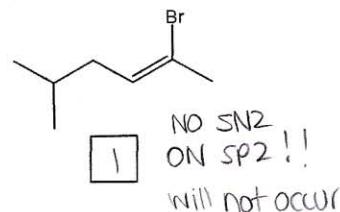
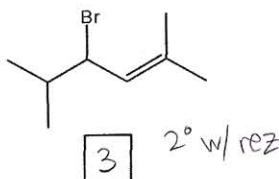
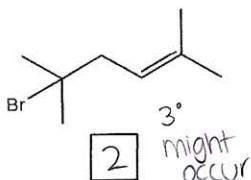


Chapter 6 Worksheet 2

Place the following compounds in order of increasing reactivity in an SN2 process. (3=highest, 1=lowest)

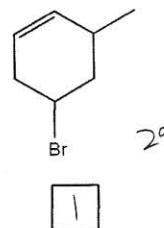
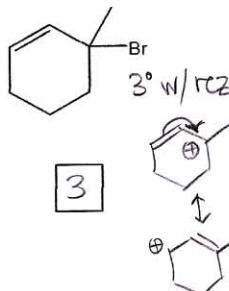
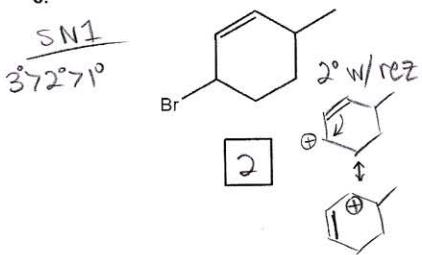


2.



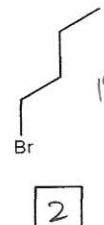
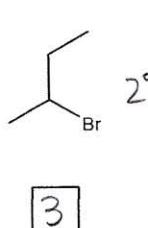
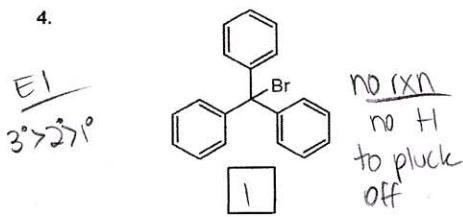
Place the following compounds in order of increasing reactivity in an SN1 process. (3=highest, 1=lowest)

3.



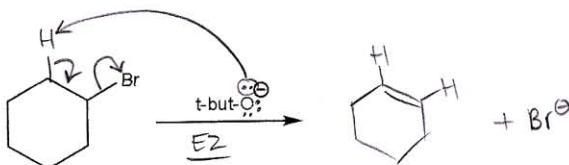
Place the following compounds in order of increasing reactivity in an E1 process. (3=highest, 1=lowest)

4.

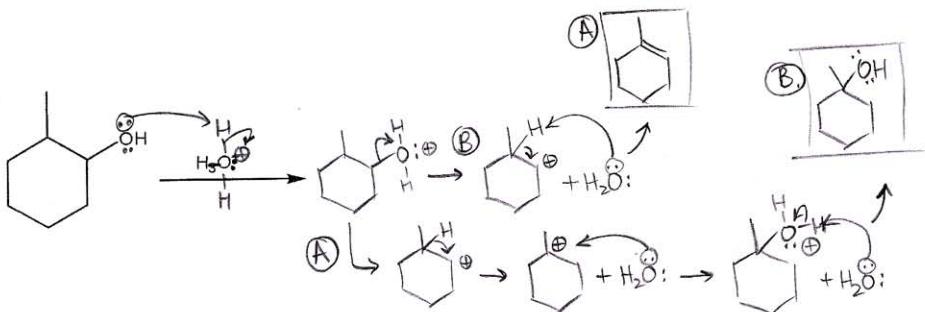


Show the mechanism for the reaction shown below. Used curved arrows to indicate "electron flow". Remember to show one step at a time. Show all intermediates and formal charges. Do not show transition states! Be sure to include ALL products formed during the reaction.

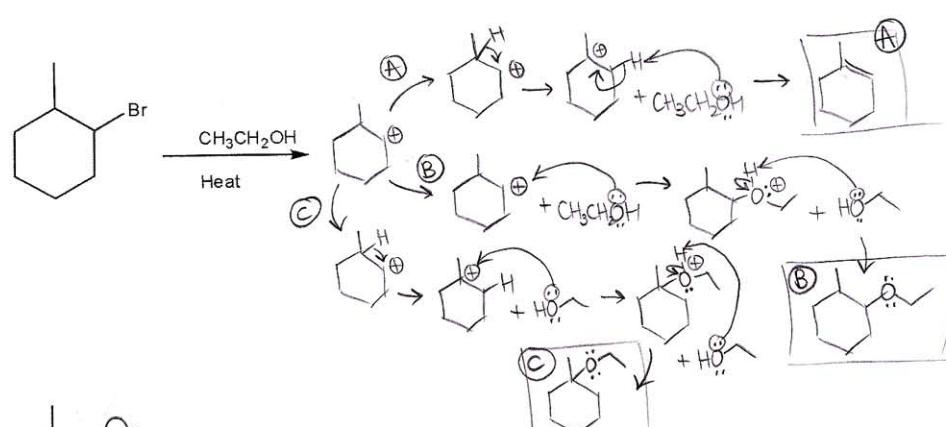
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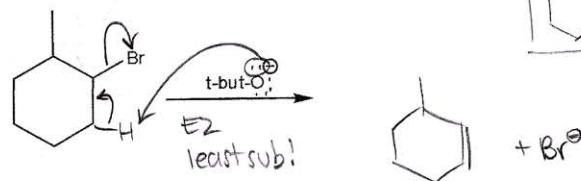
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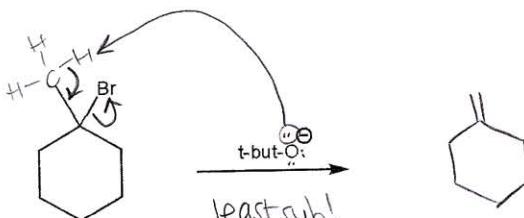
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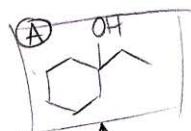
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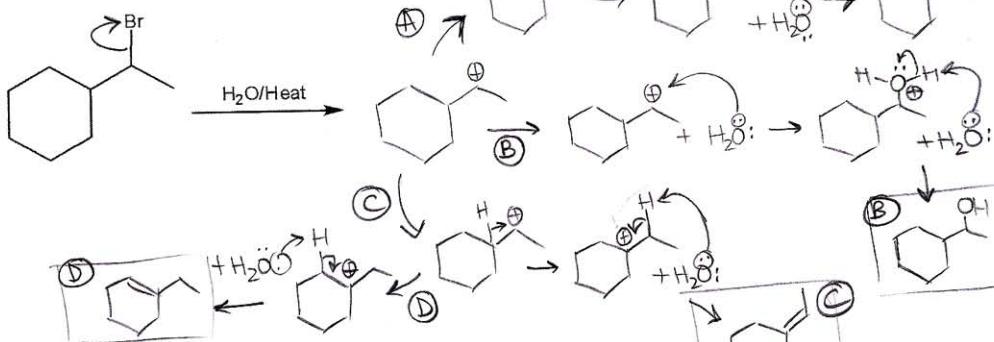
9.



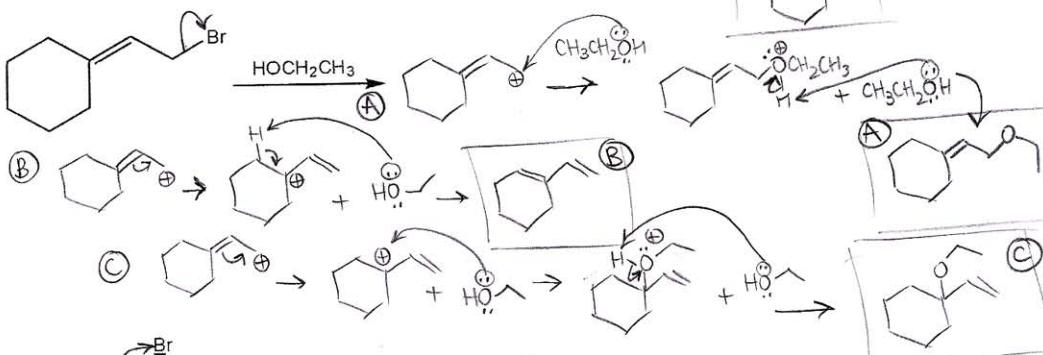
(EZ)
least sub!
no stereochemistry
so no need to
check if it's
trans-diaxial



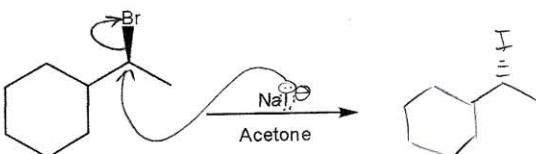
10.



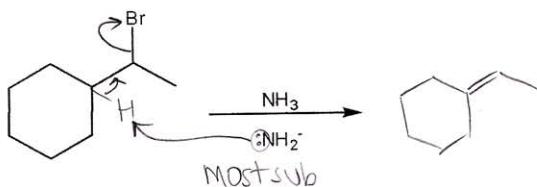
11.



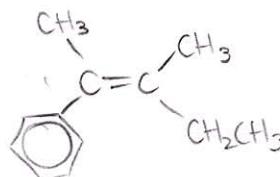
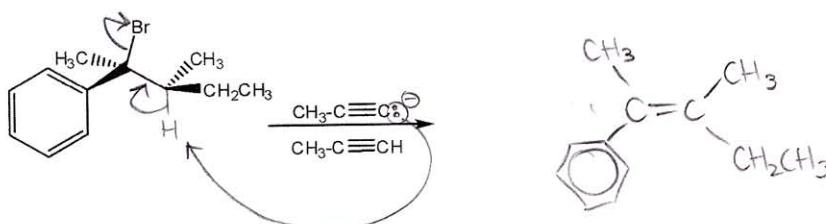
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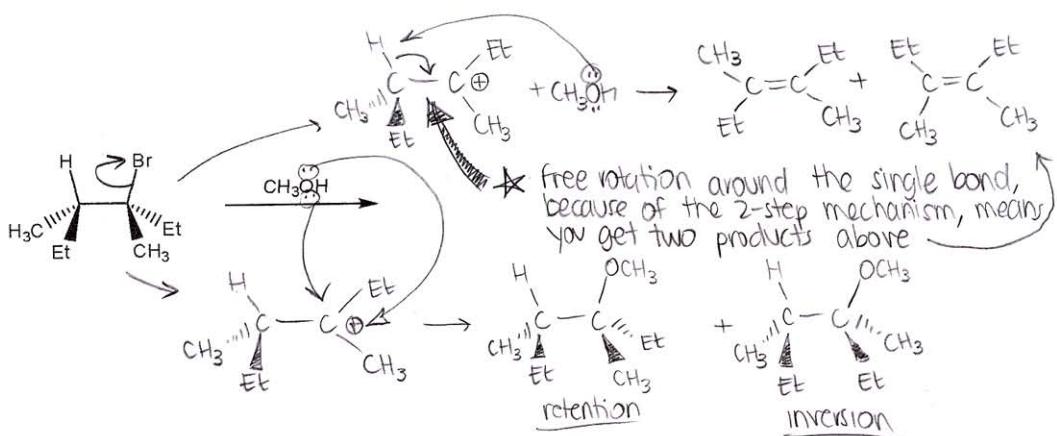
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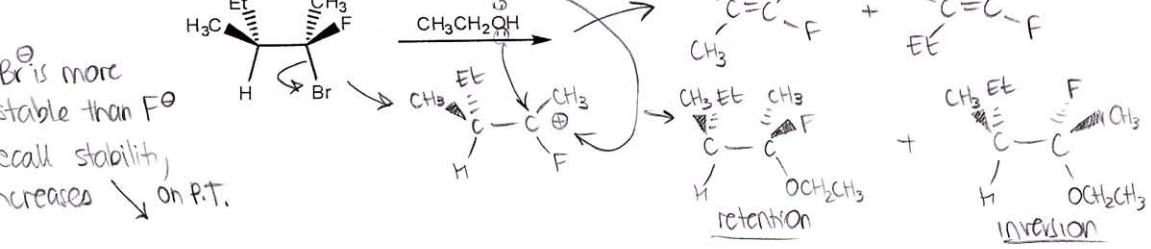
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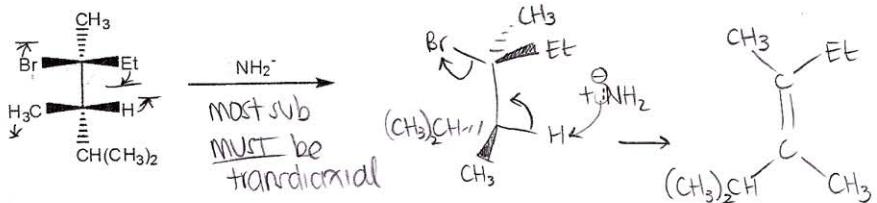
15.



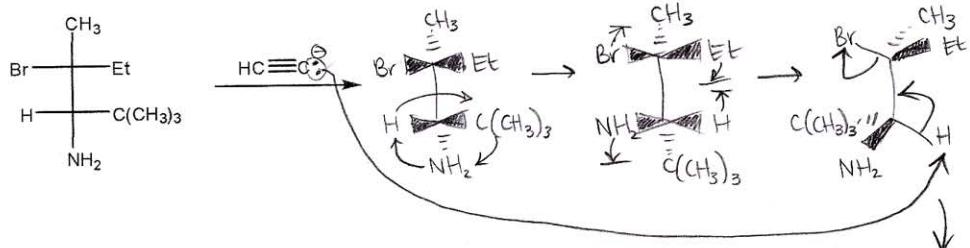
16.



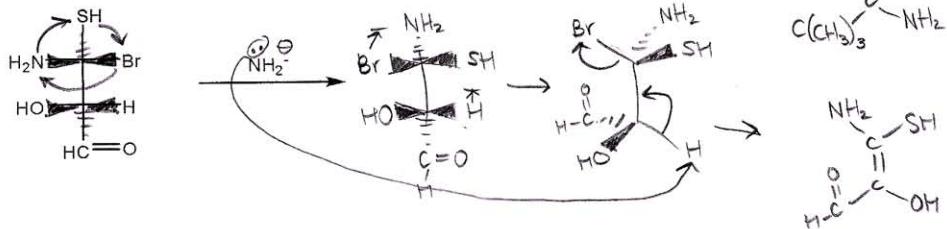
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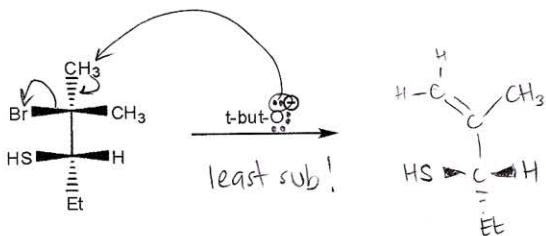
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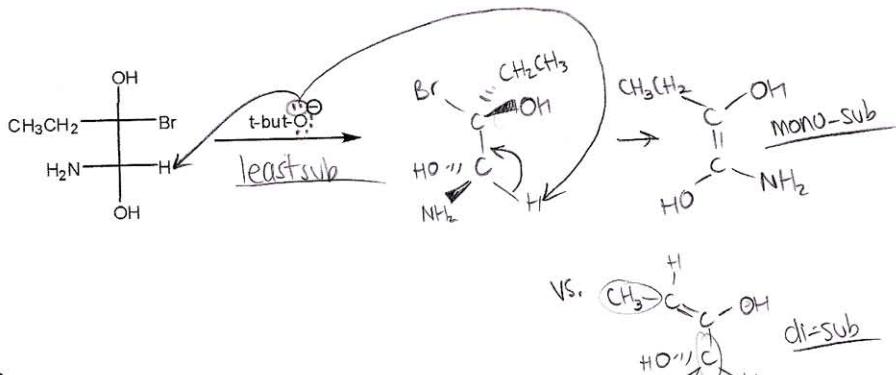
19.



20.

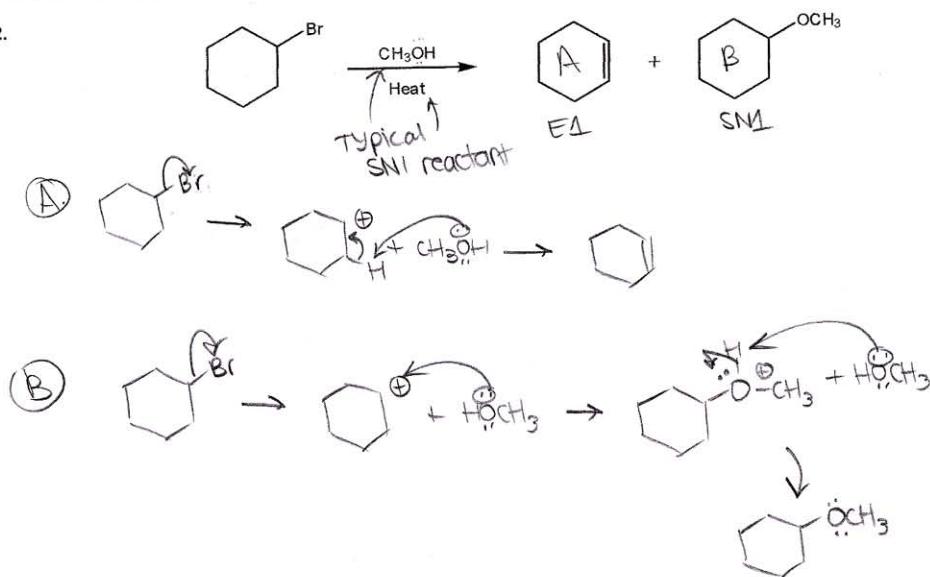


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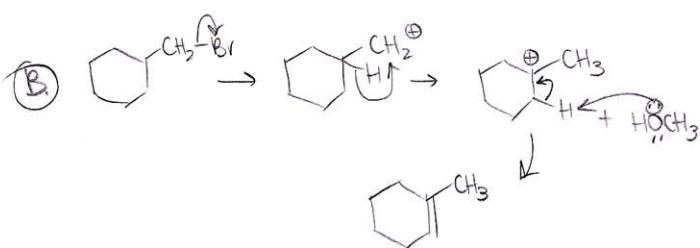
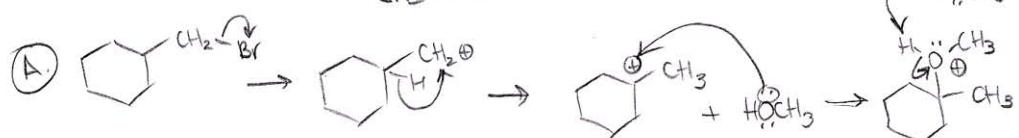
**Mechanism**

The following reaction produces a mixture of products. Please provide clear mechanisms for the formation of the products shown. Use curved arrows to indicate electron flow, and show all intermediates and formal charges.

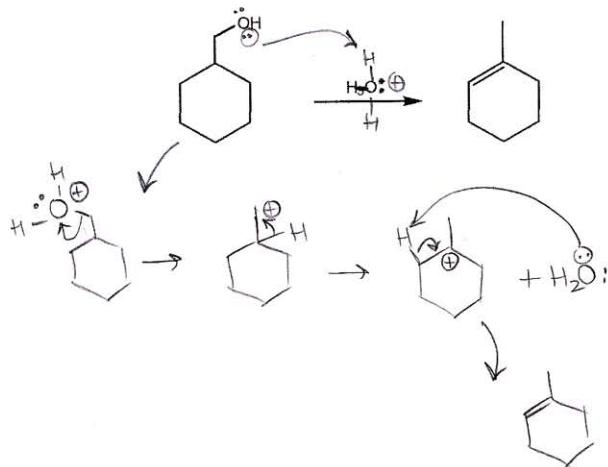
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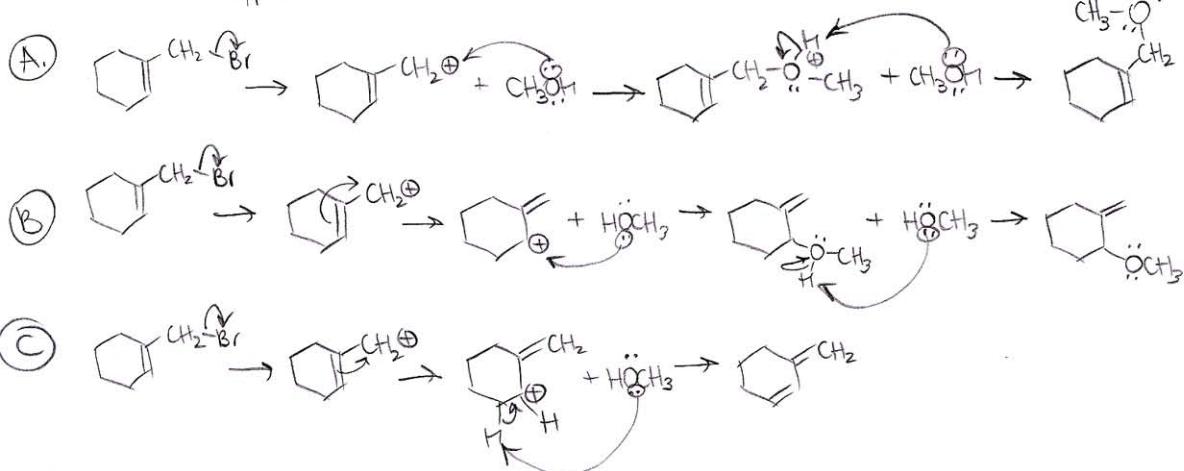
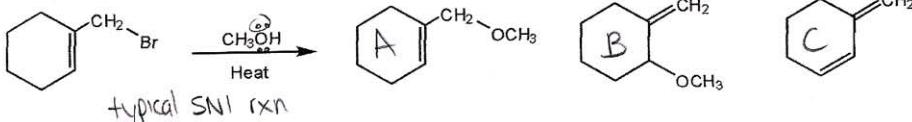
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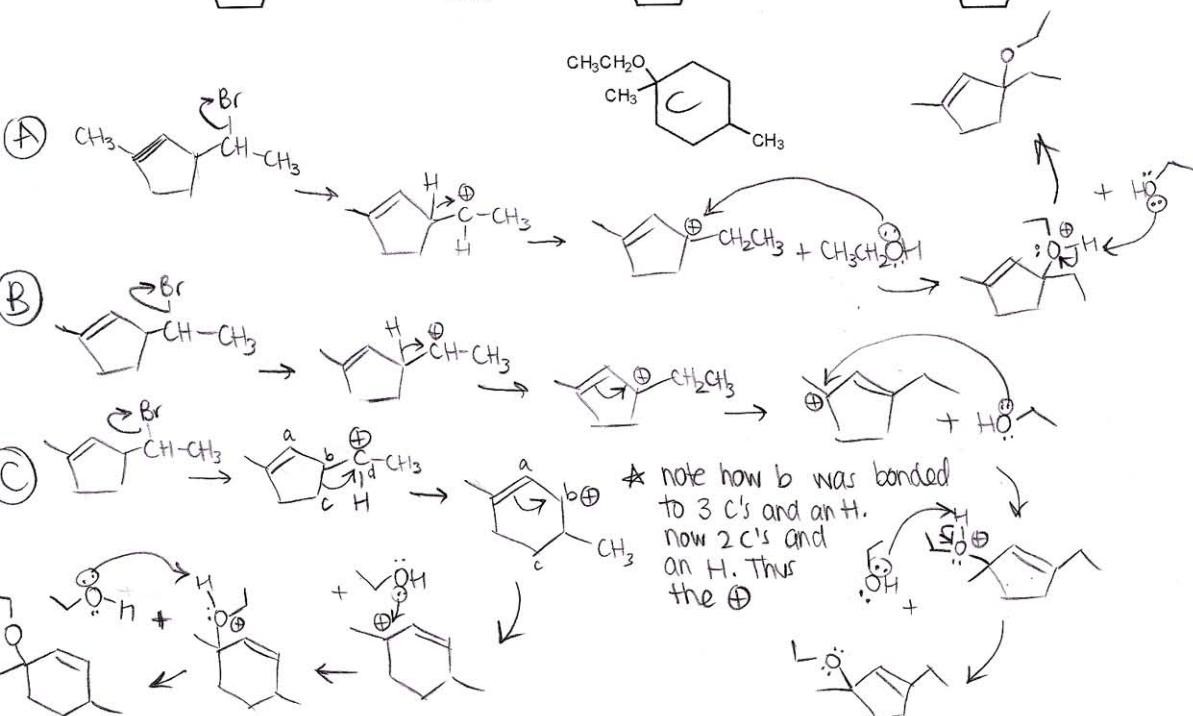
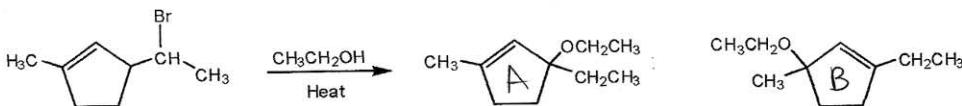
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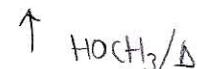
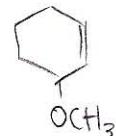
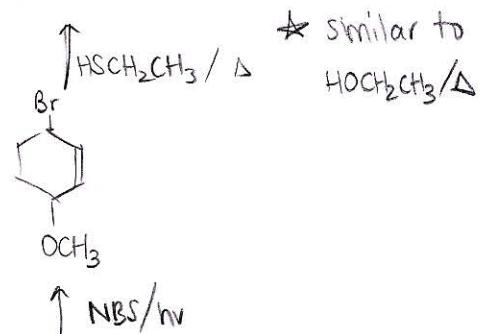
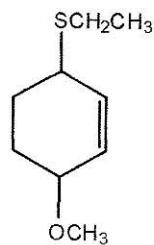
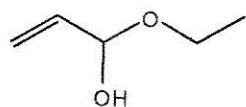
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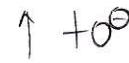
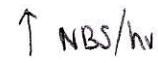
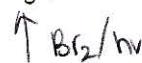
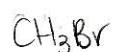
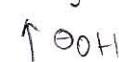
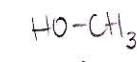
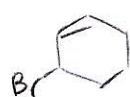
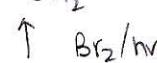
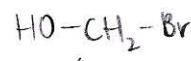
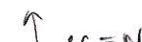
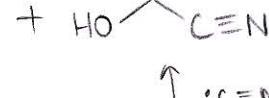
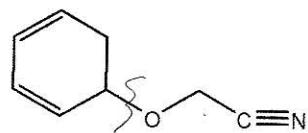
26.



40.

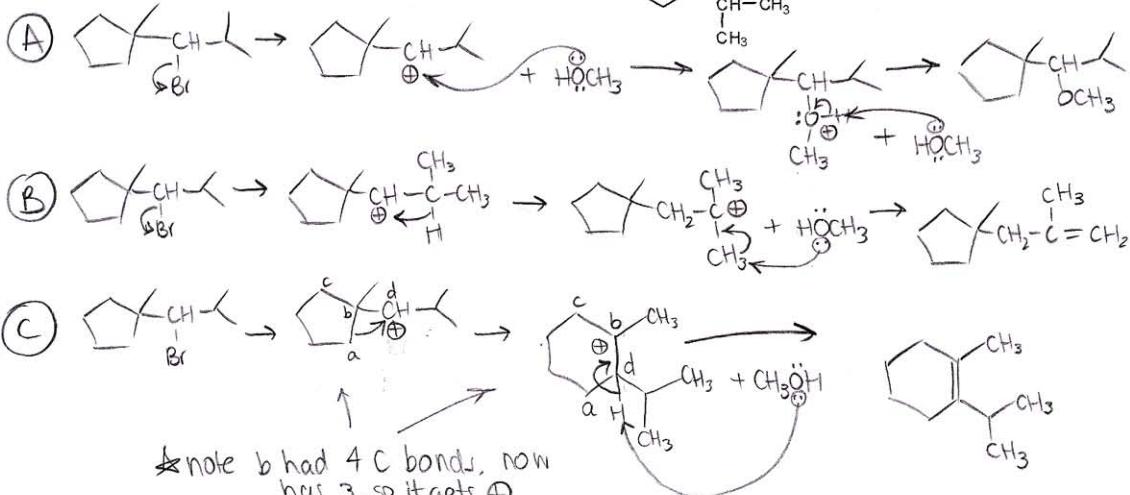
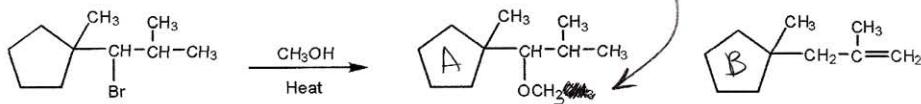


41.



* fix this

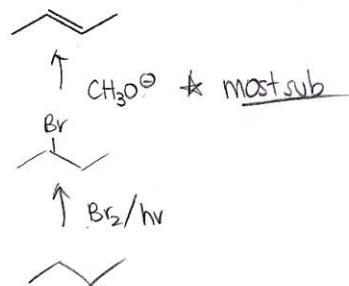
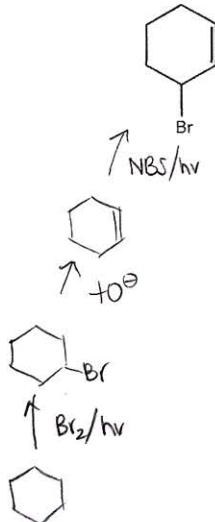
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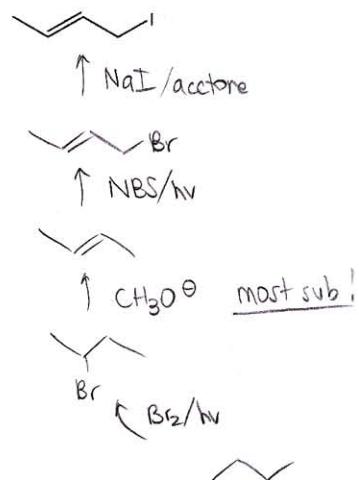
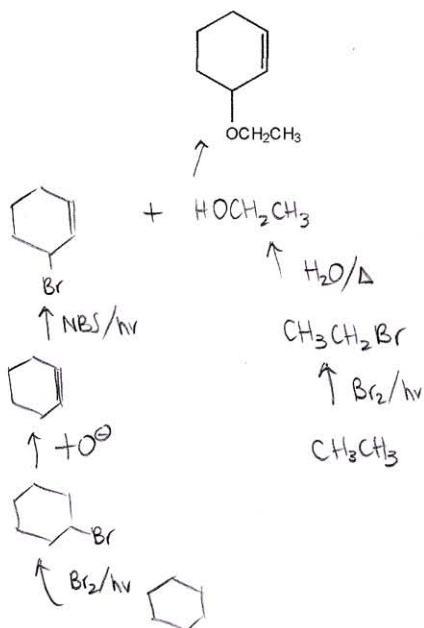
Synthesis the bond broke between b+a, and formed between a+d.

Synthesize the compounds below from any alkanes, cycloalkanes, and any inorganic reagents.

28.



29.



30.

