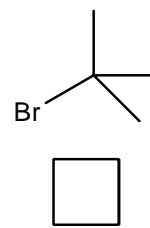
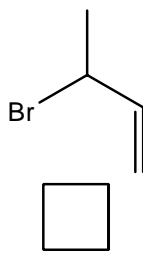
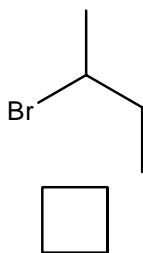


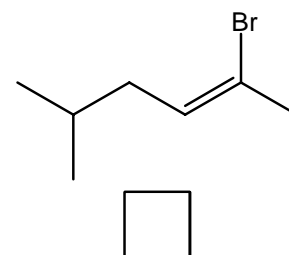
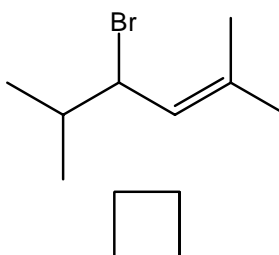
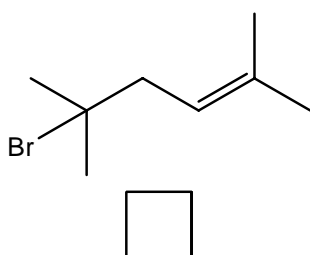
Chapter 06 Worksheet 02

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

1.

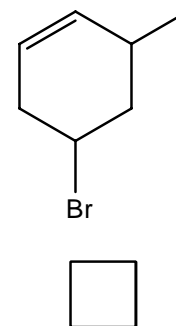
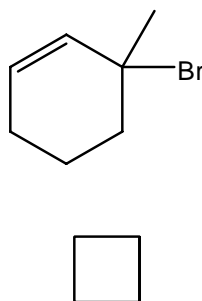
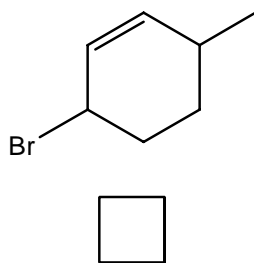


2.



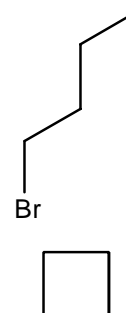
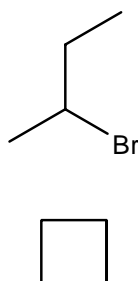
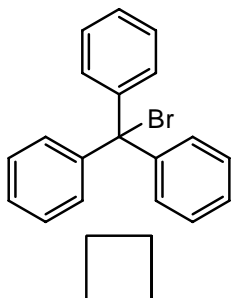
Place the following compounds in order of increasing reactivity in an SN1 process. (3=highest, 1=lowest)

3.



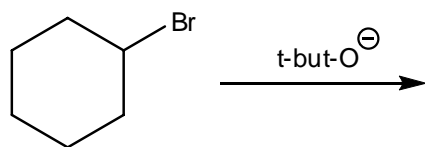
Place the following compounds in order of increasing reactivity in an E1 process. (3=highest, 1=lowest)

4.

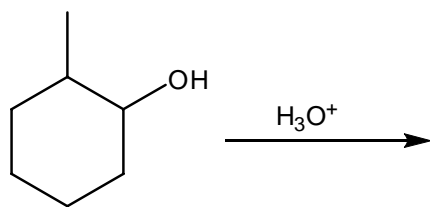


Show the mechanism for the reaction shown below. Used curved arrows to indicate “electron flow”. Remember to show one step at a time. Show all intermediates and formal charges. Do not show transition states! Be sure to include ALL products formed during the reaction.

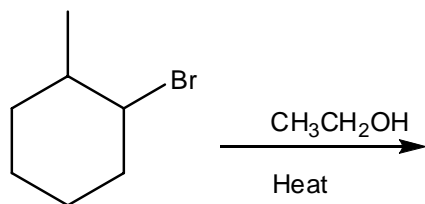
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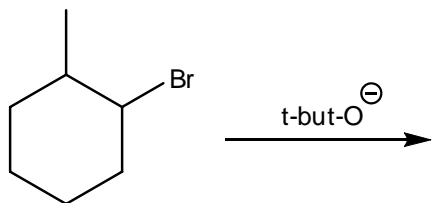
6.



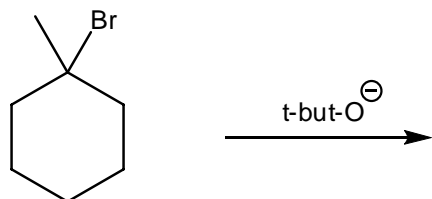
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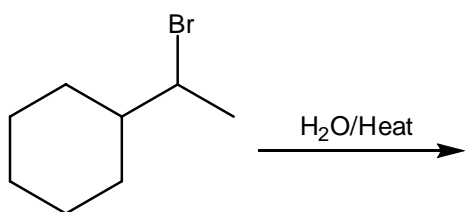
8.



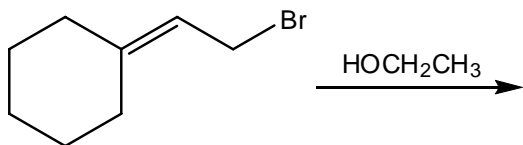
9.



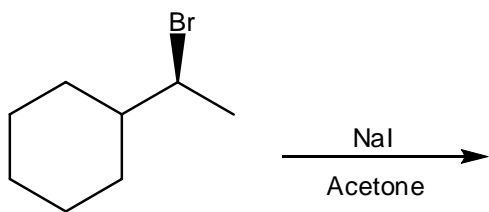
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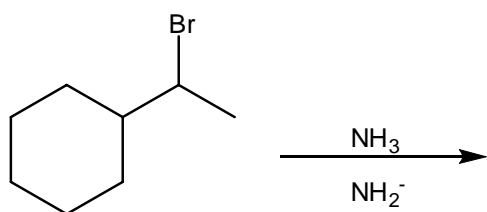
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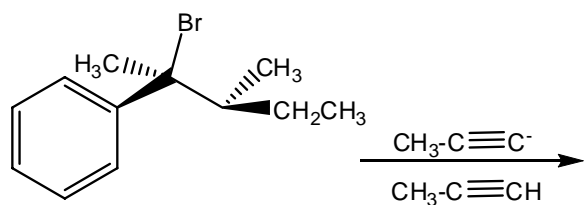
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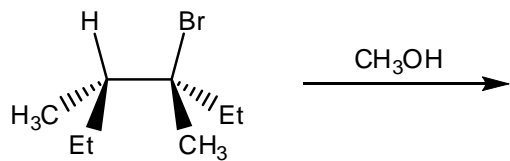
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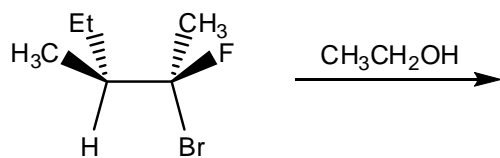
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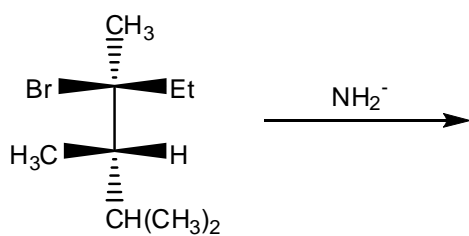
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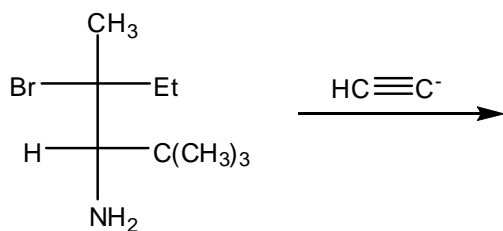
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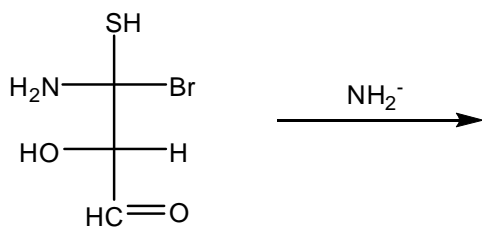
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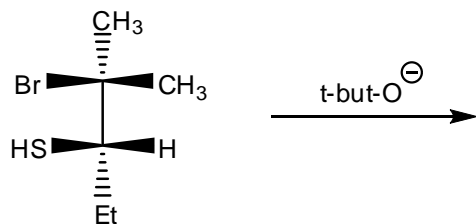
18.



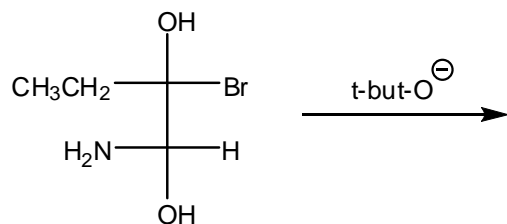
19.



20.



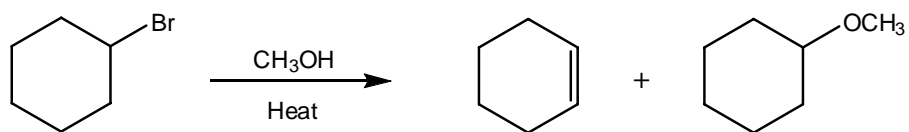
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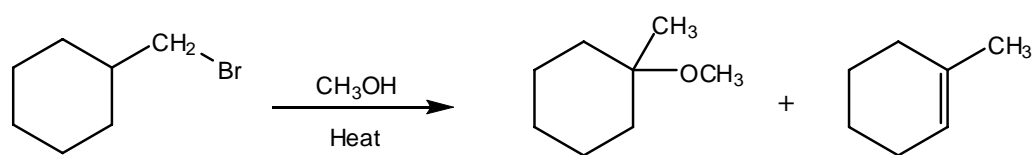
Mechanism

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.

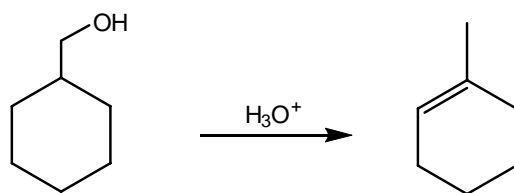
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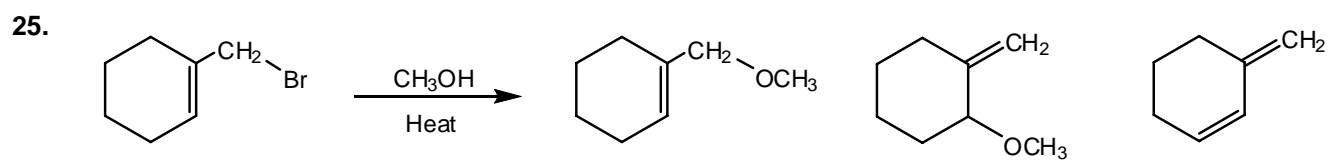


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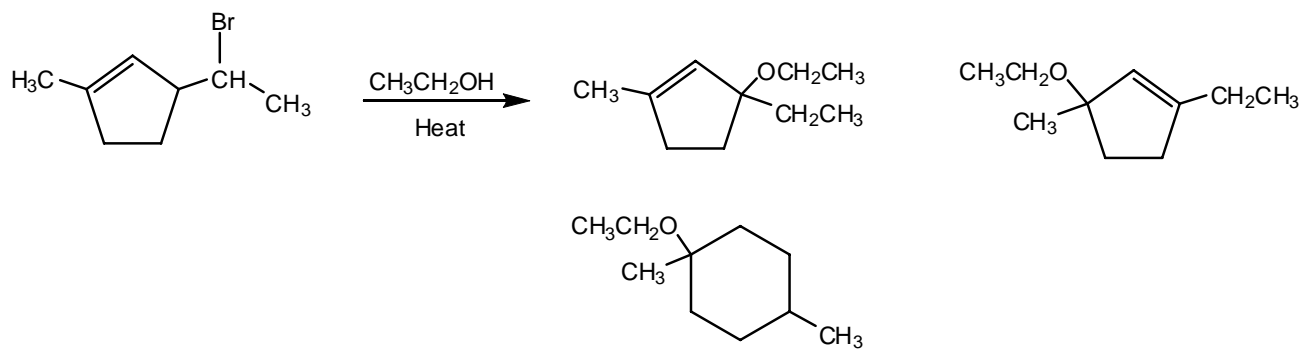


24.

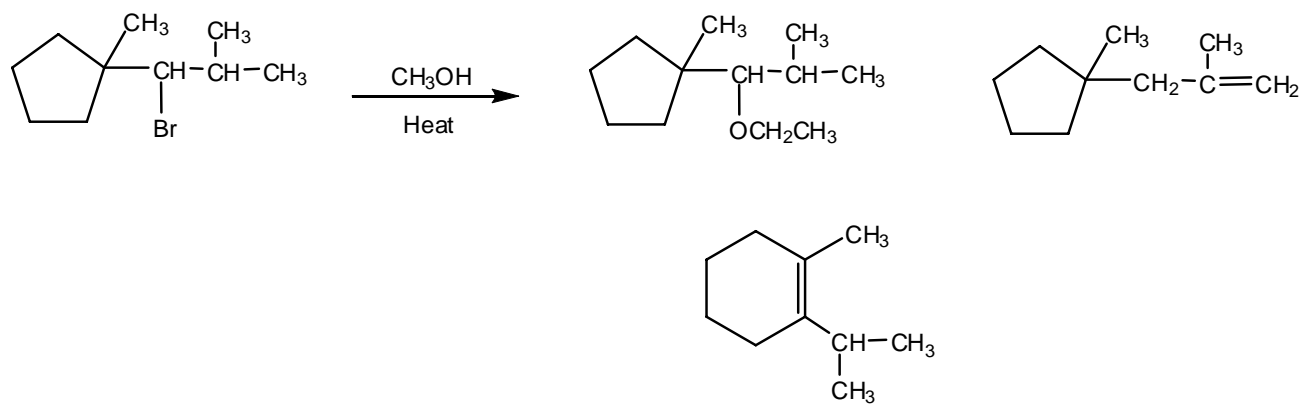




26.



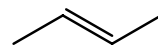
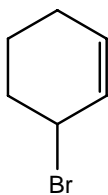
27.



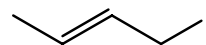
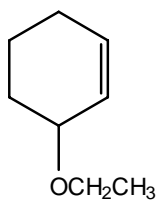
Synthesis

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

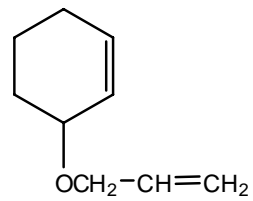
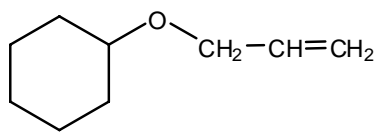
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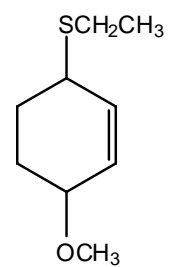
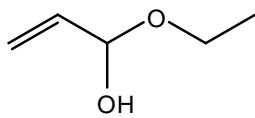
29.



30.



40.



41.

