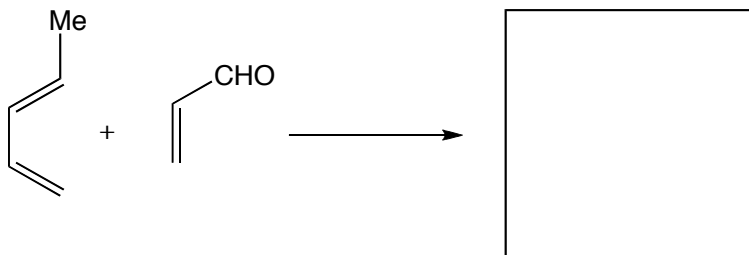
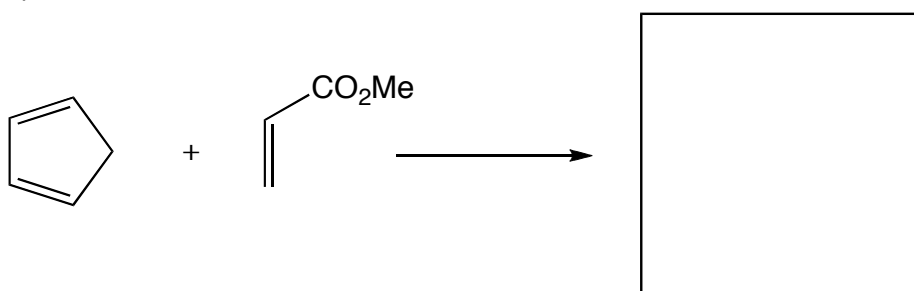


Practice Problems. Remember to show all stereochemistry
Diels-Alder

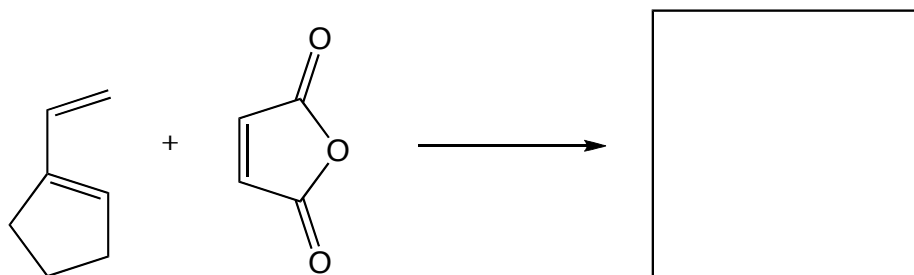
1.



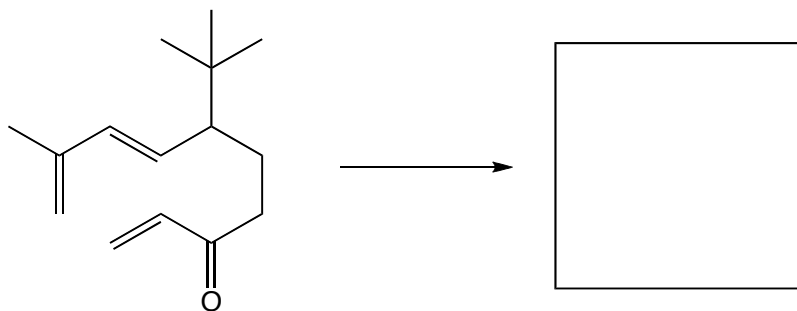
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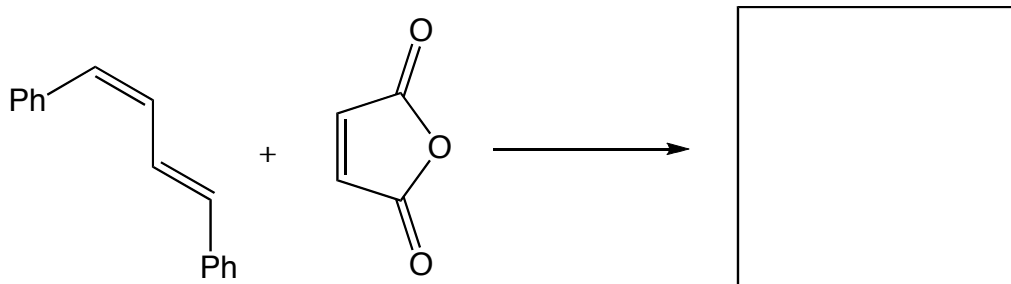
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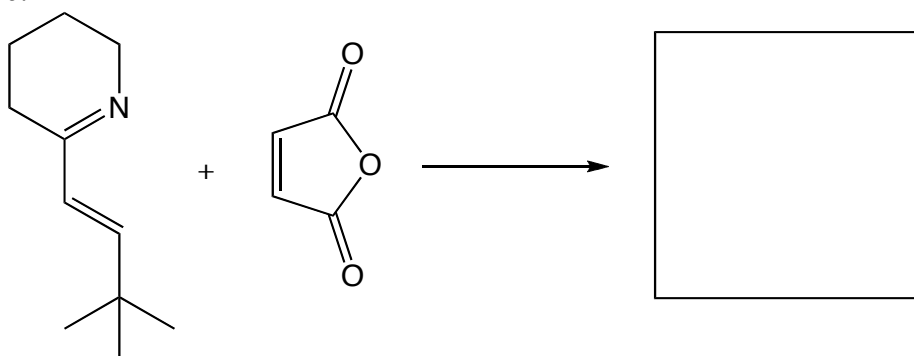
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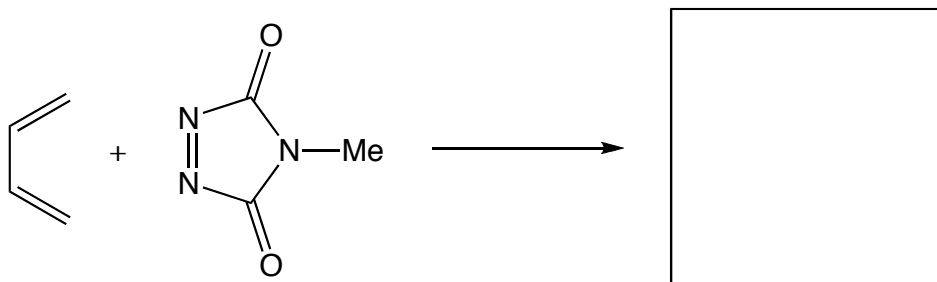
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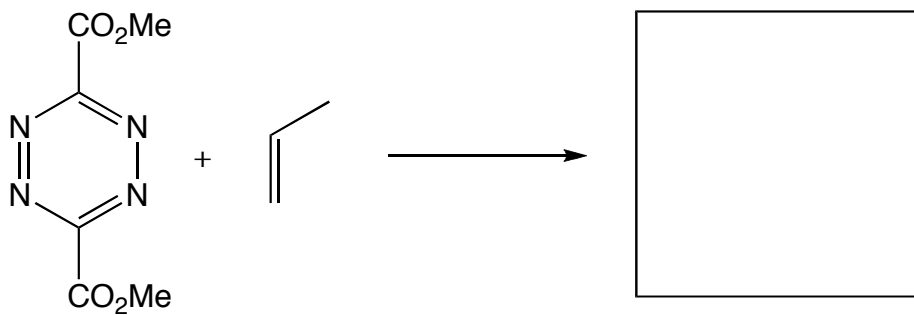
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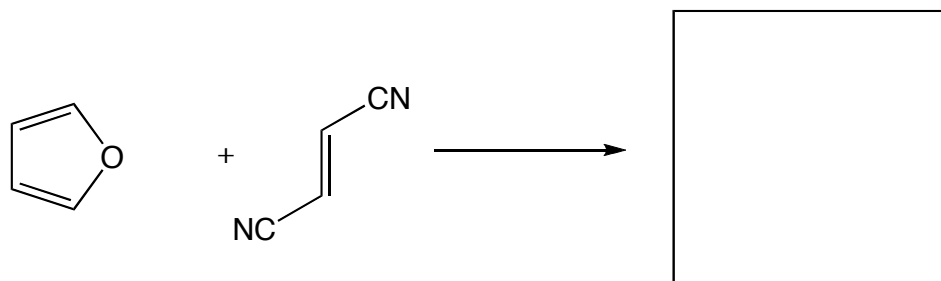
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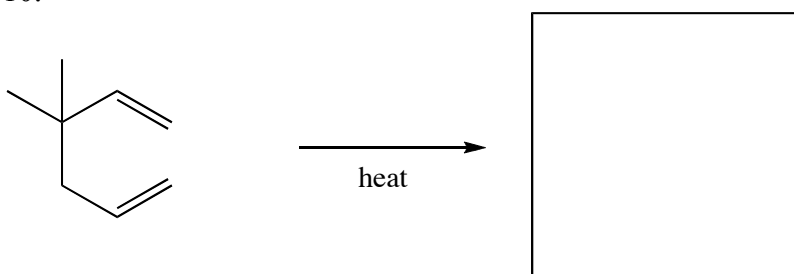
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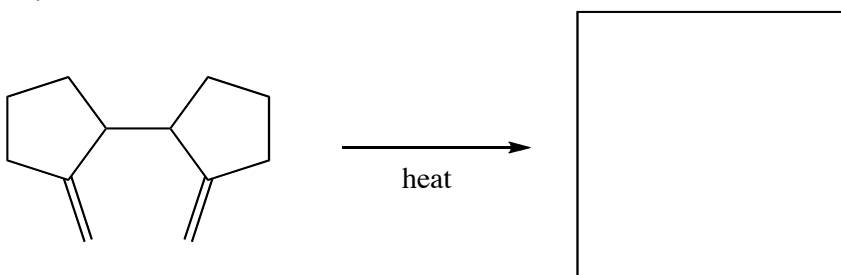
9.



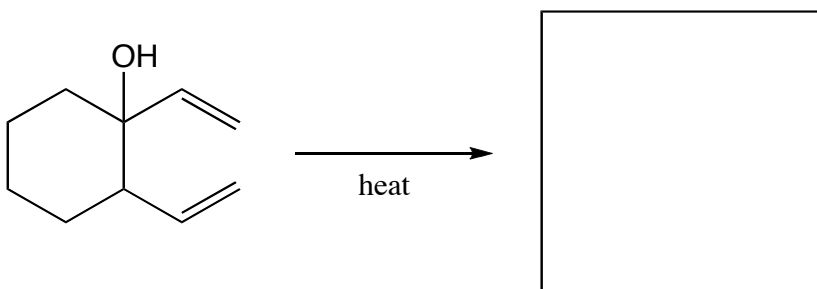
Cope
10.



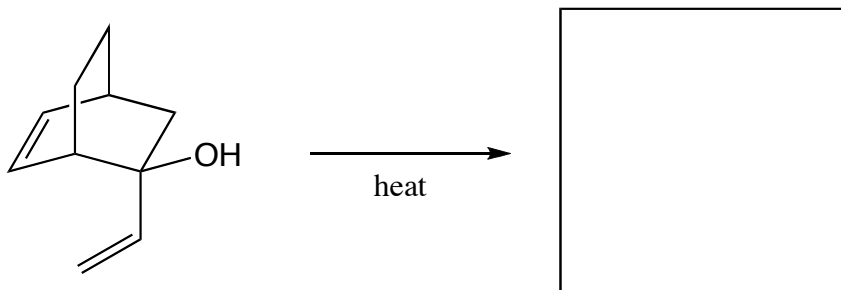
11.



12.

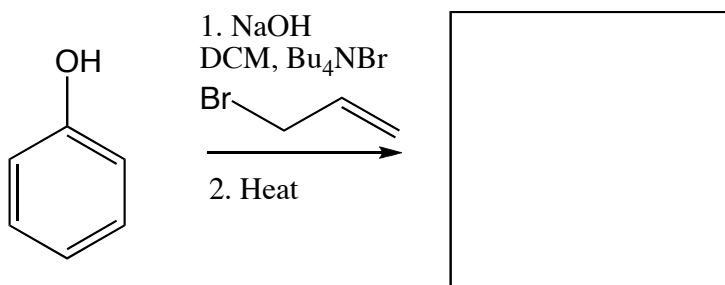


13.

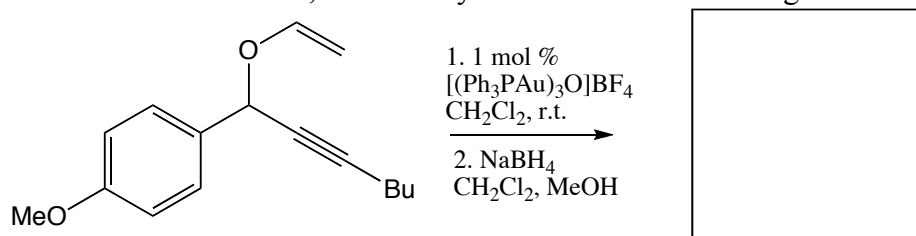


Claisen

14.

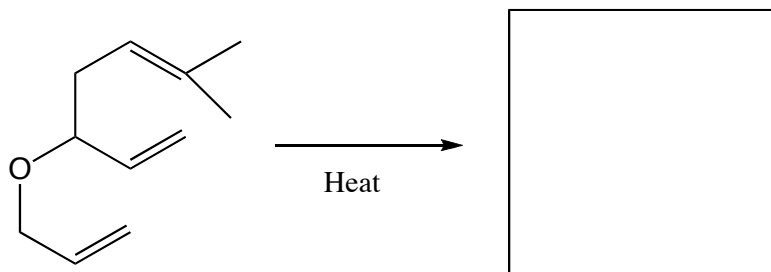


15. Allene intermediate, Gold catalysts is for Claisen rearrangement



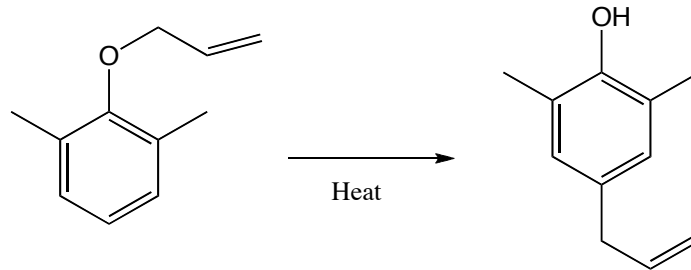
Combo:

15.



Mechanism

16.



17. (Carroll rearrangement)

