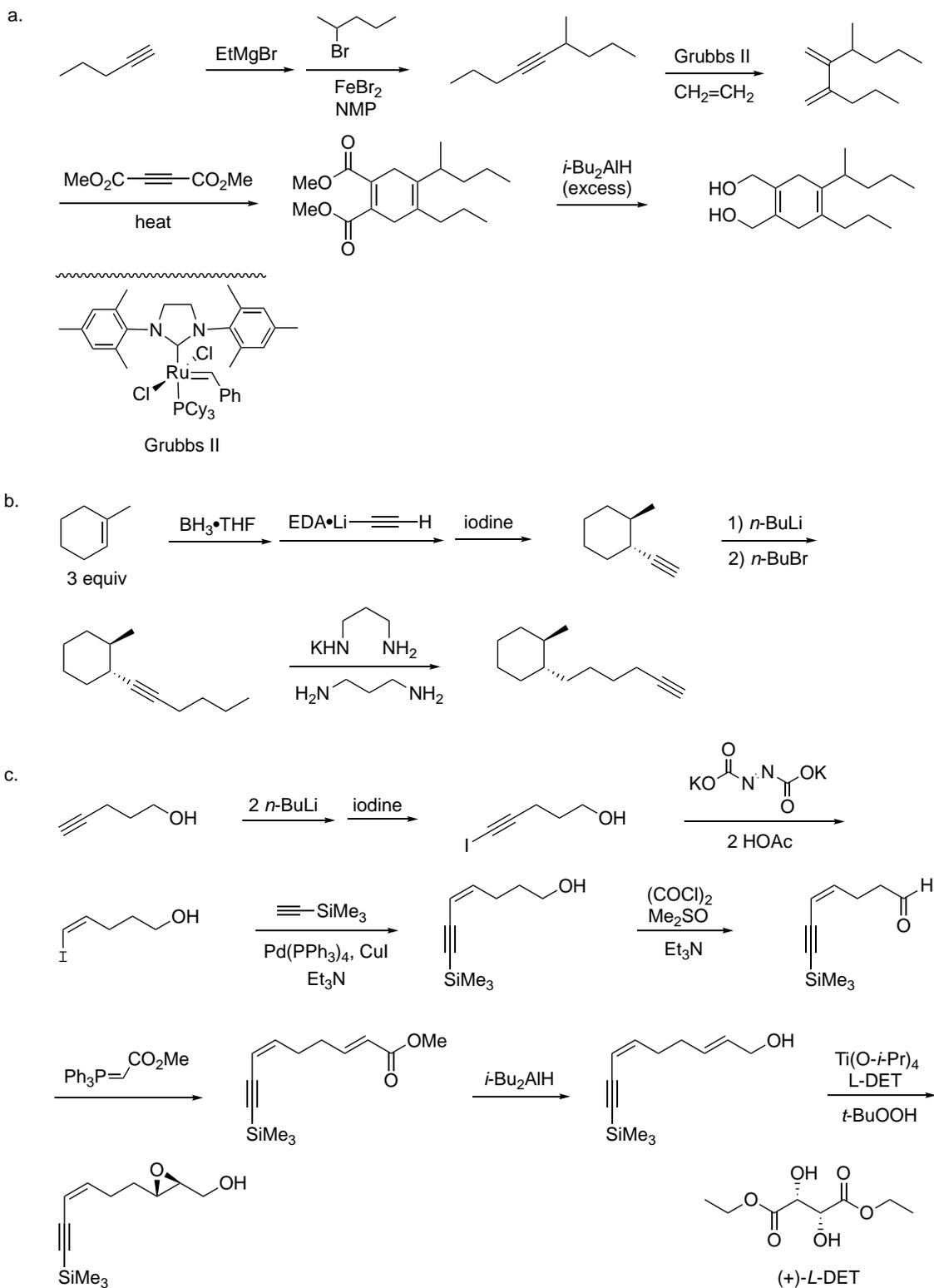
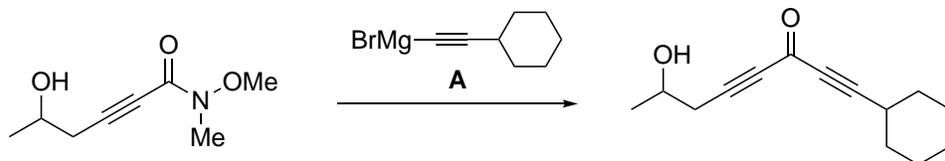
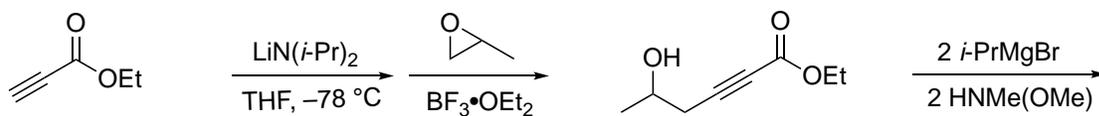


**Chemistry 852**  
**Exam I**  
**(February 22, 2018)**  
**Suggested Solutions (There are of course many)**

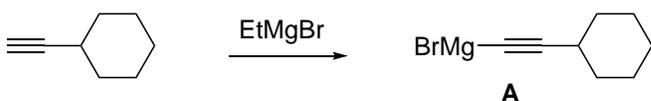
Part I



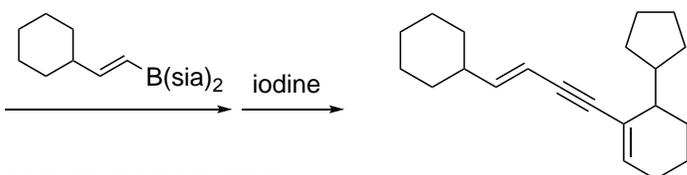
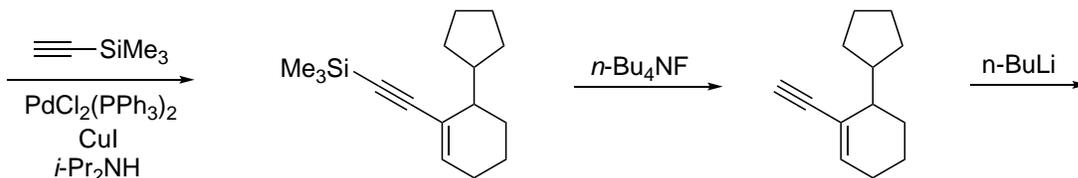
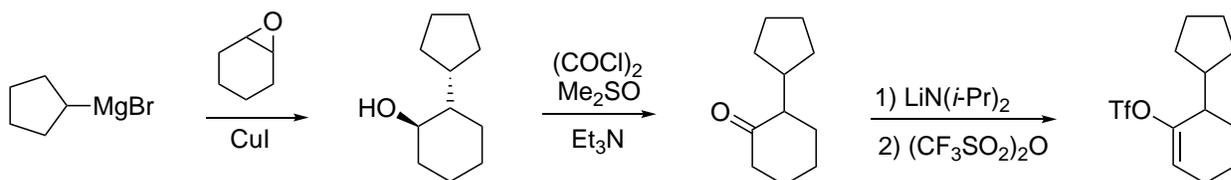
d.



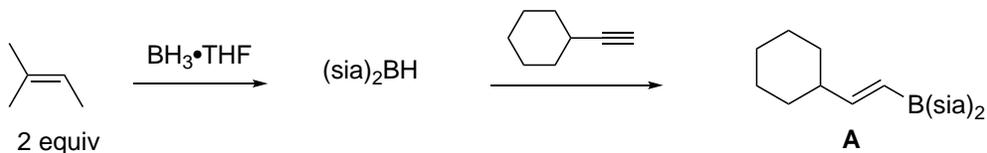
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e.

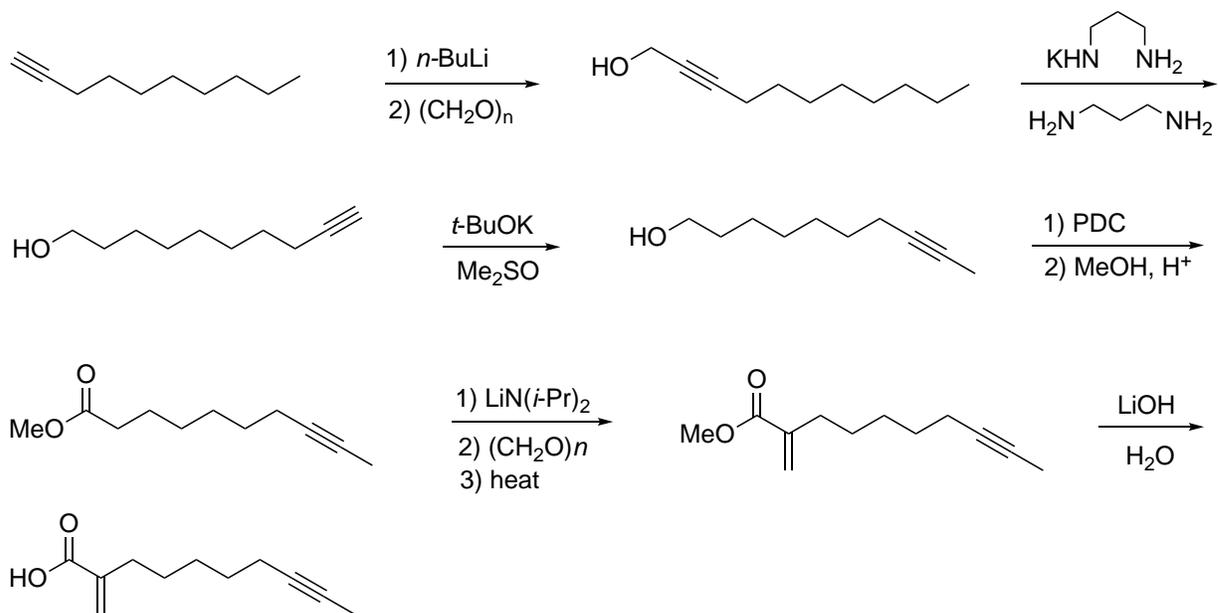


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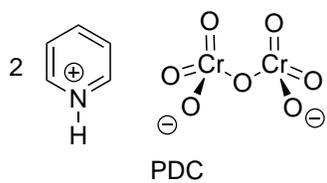


2 equiv

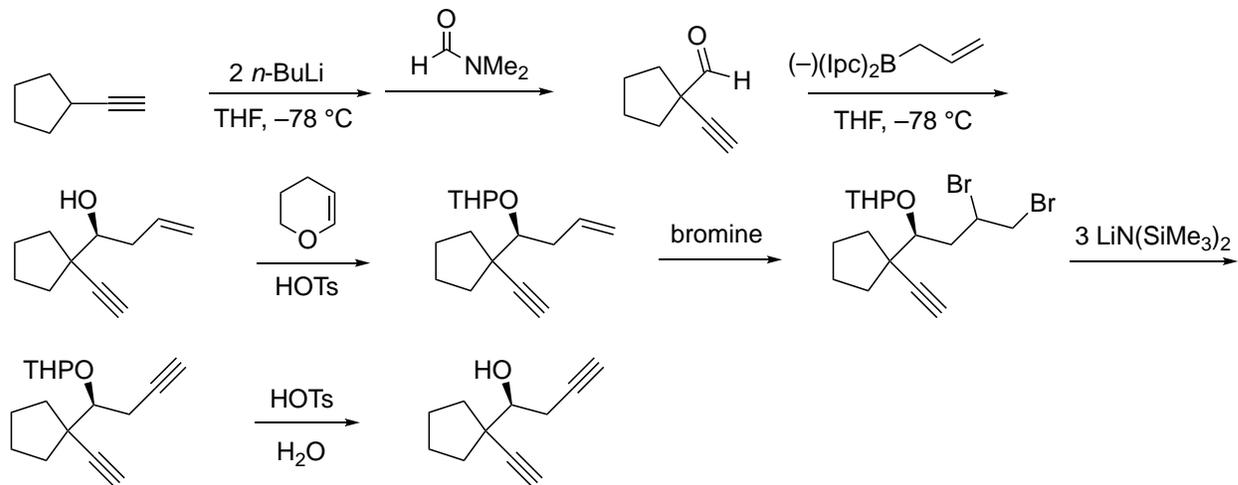
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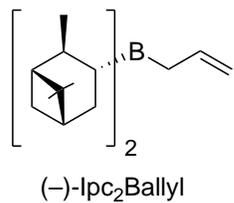
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g.



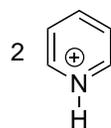
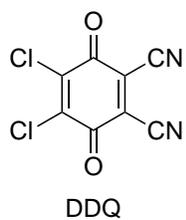
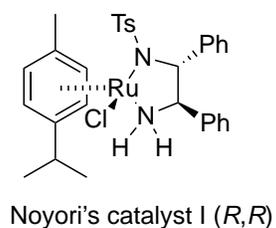
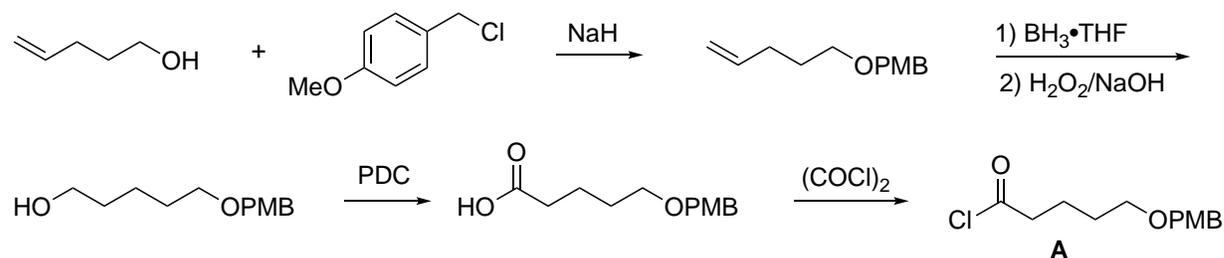
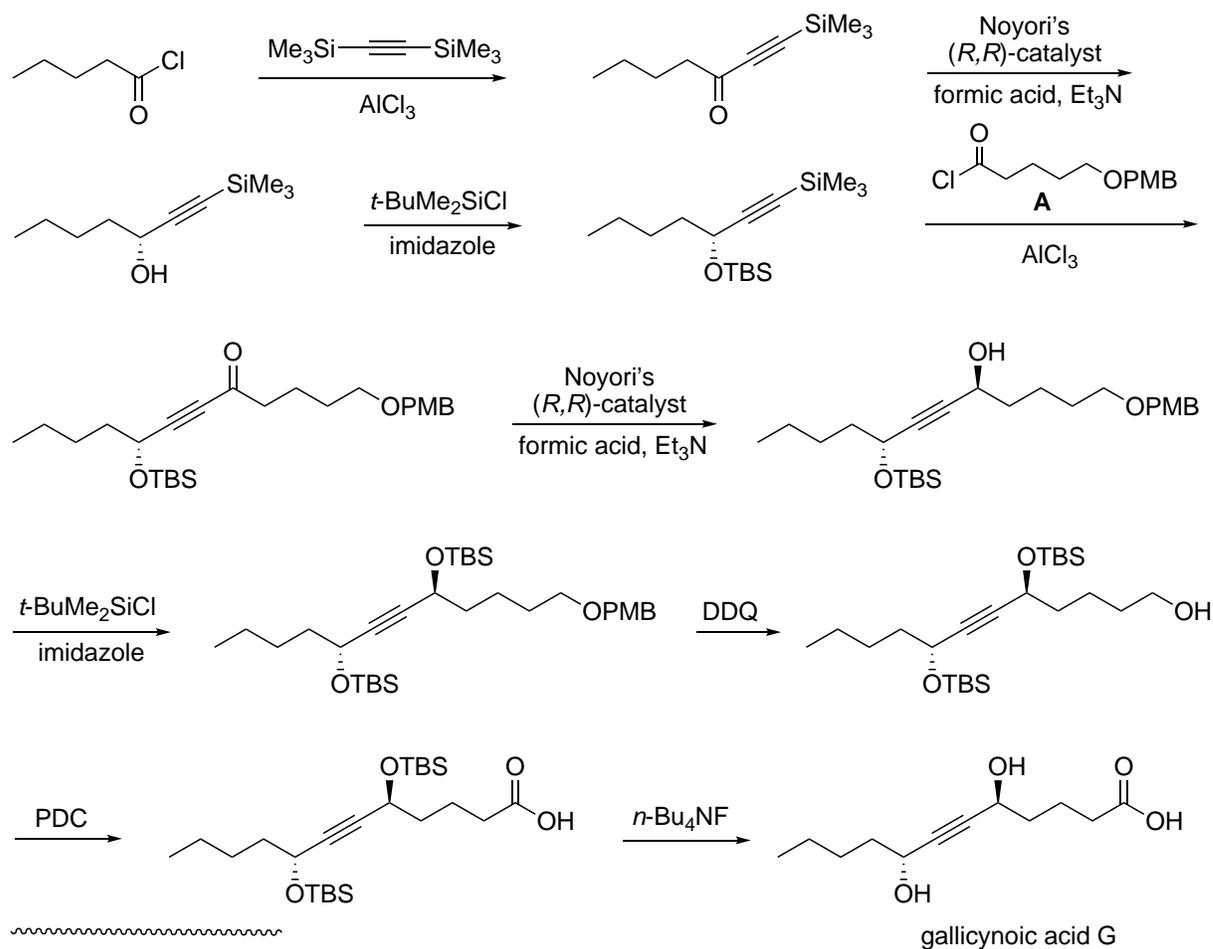
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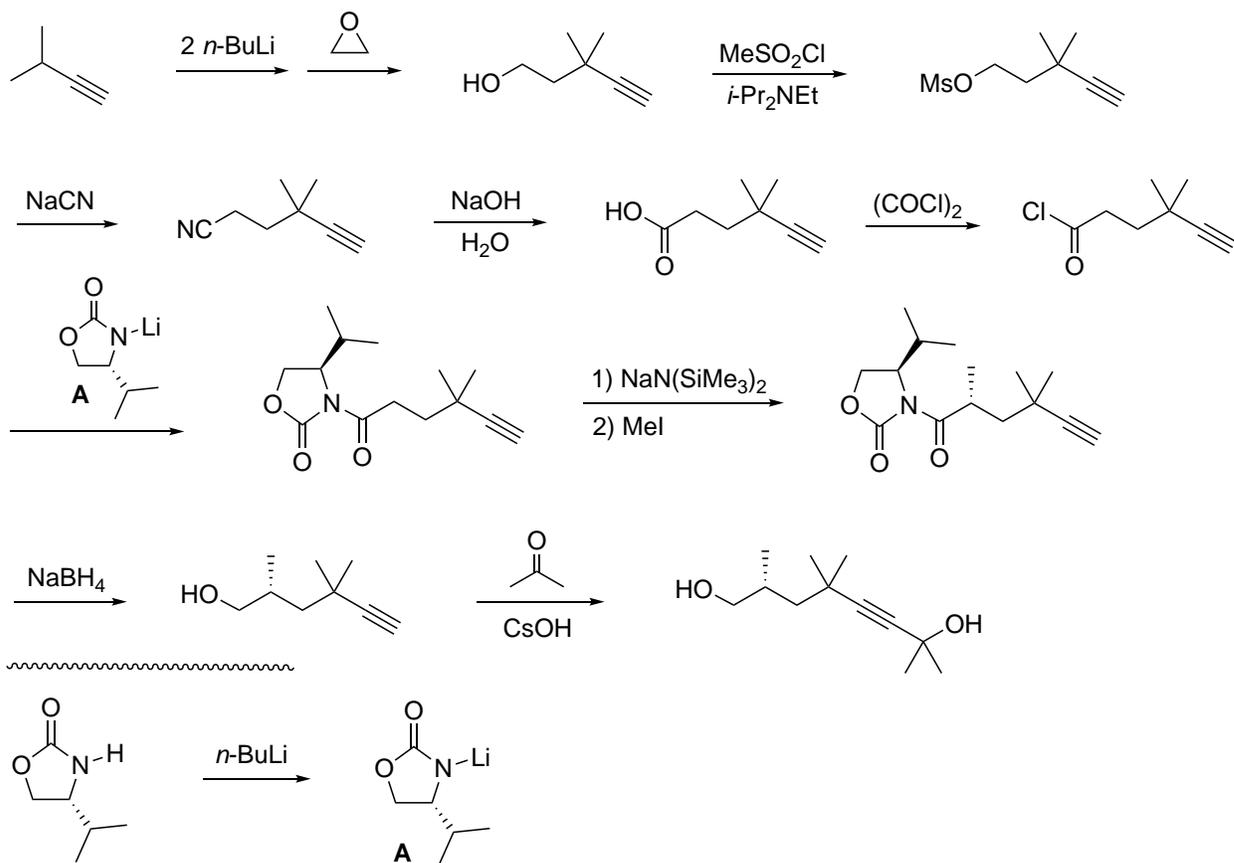


Part II

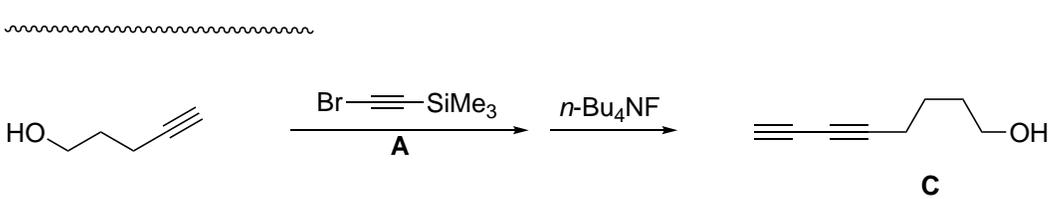
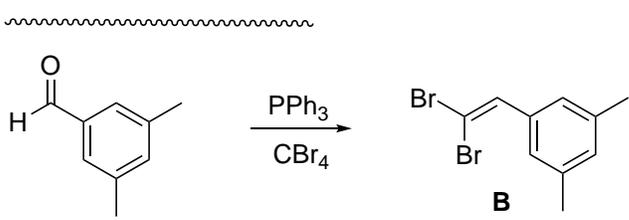
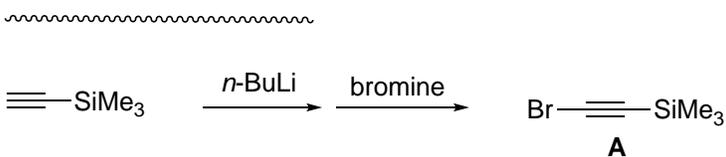
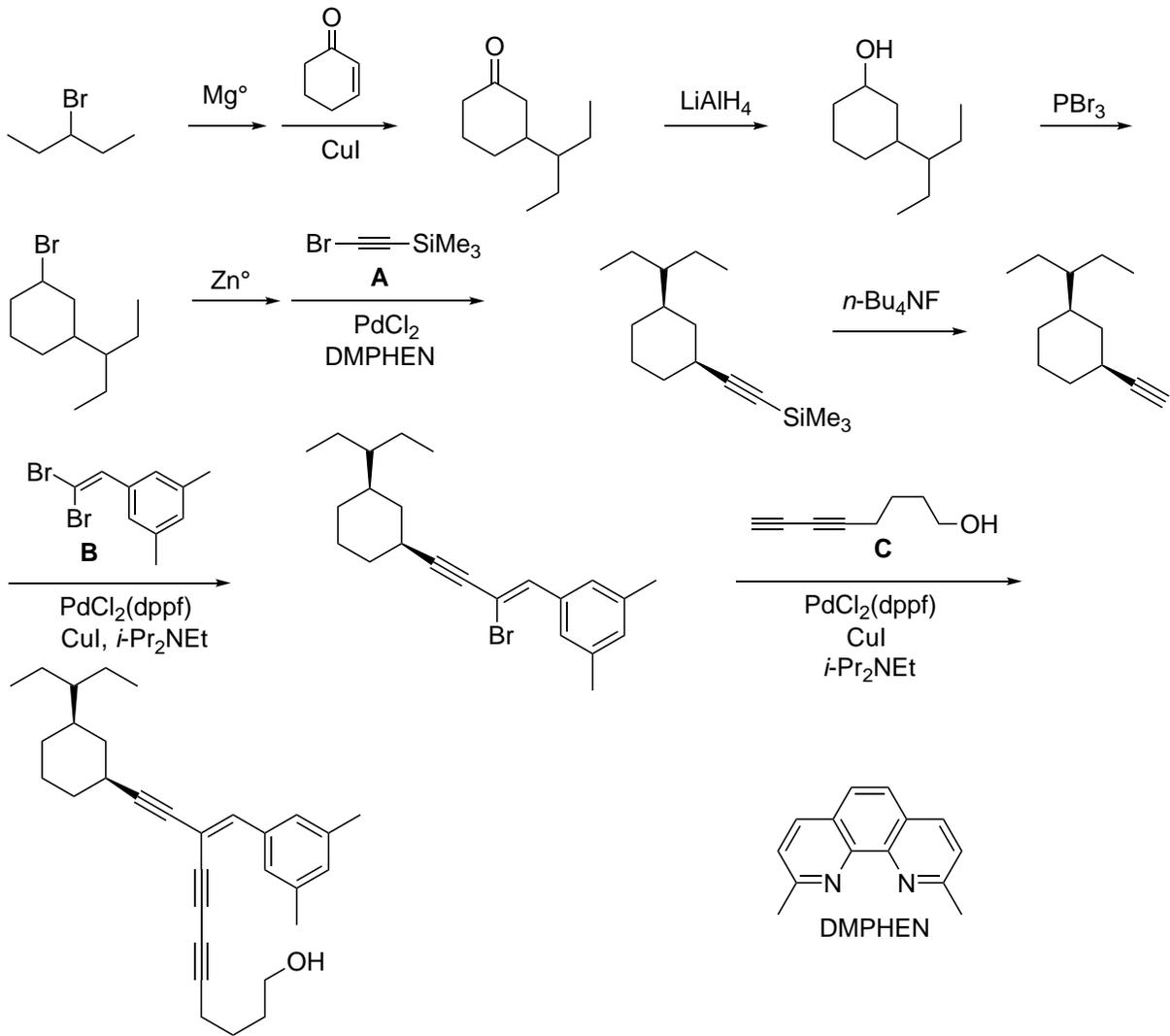
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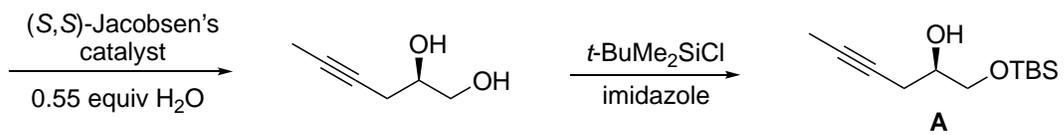
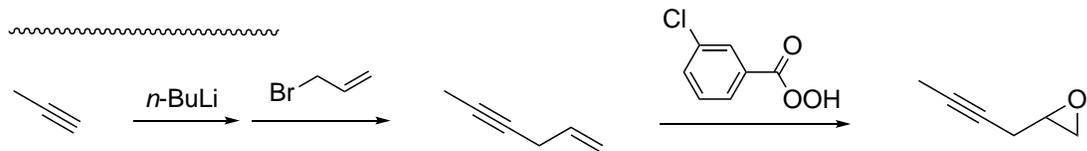
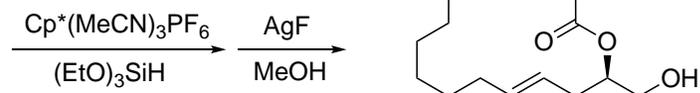
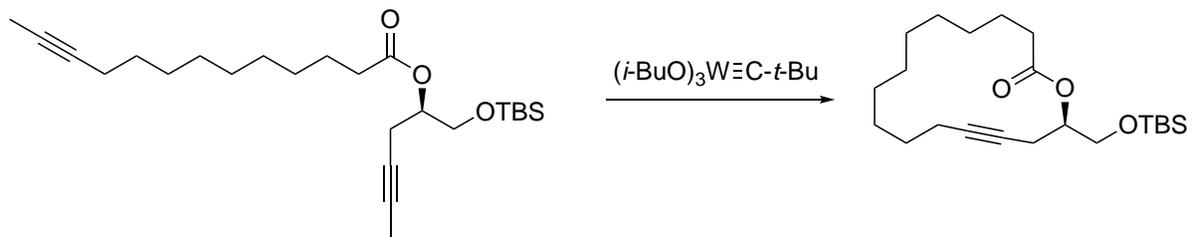
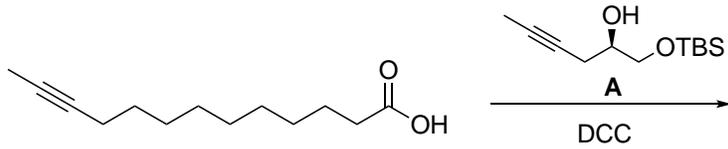
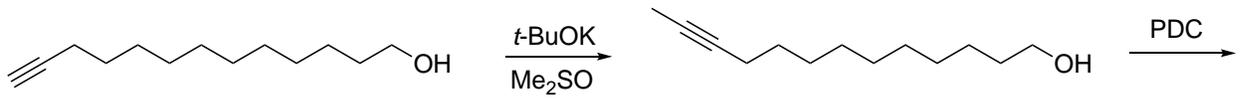
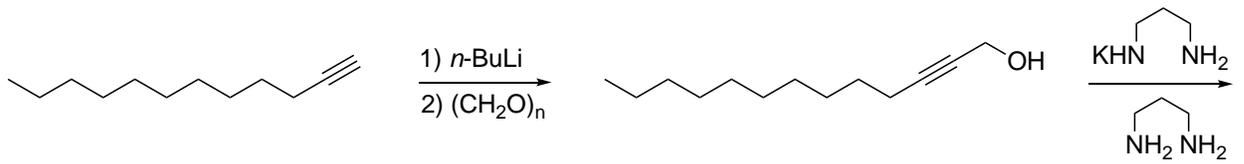
b.



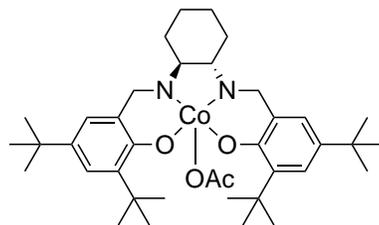
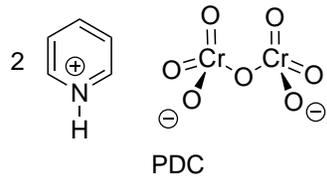
c.



d.



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Jacobsen's HKR catalyst (S,S)