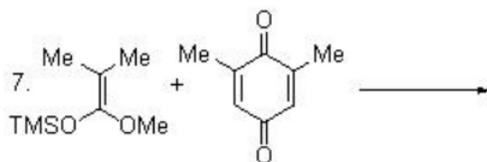
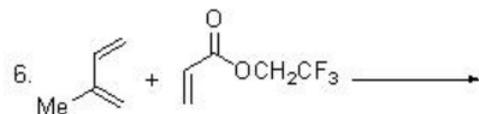
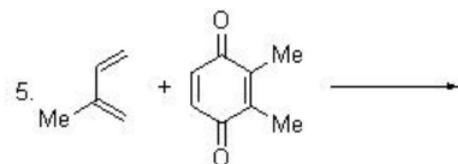
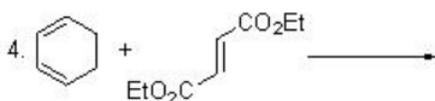
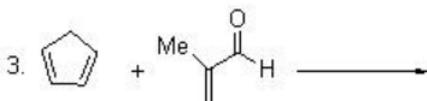
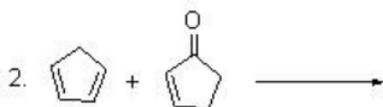
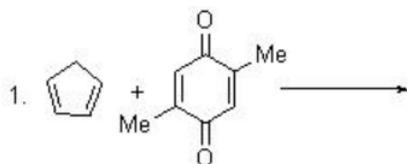


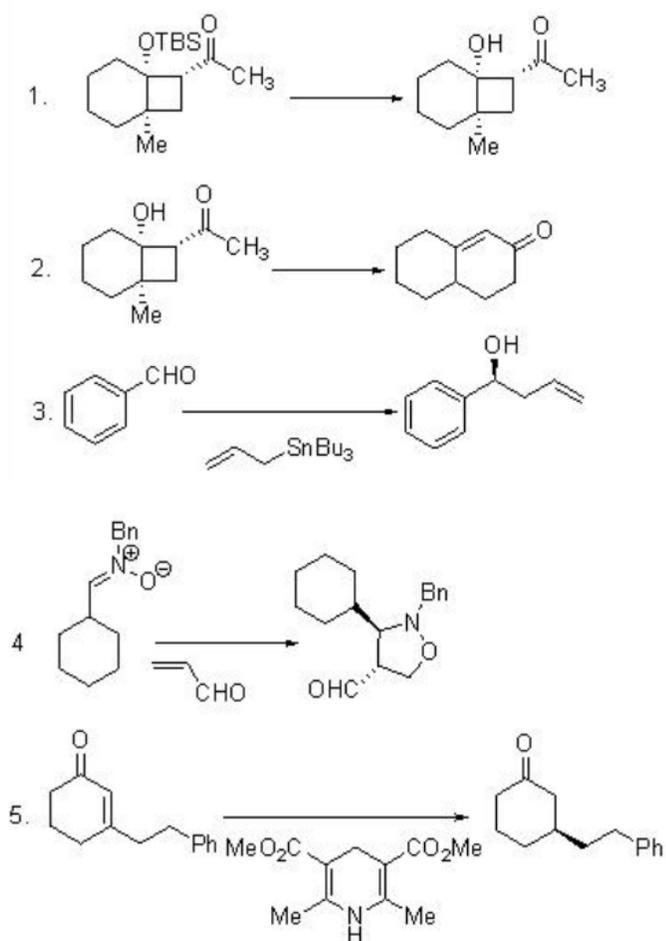
1.4: Problems + Reference

Problems:

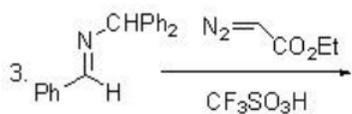
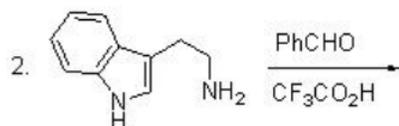
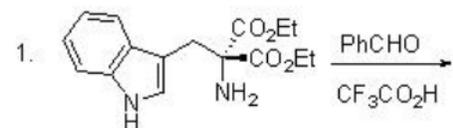
What products would expect from the following reactions using BLA **1b** as a catalyst?



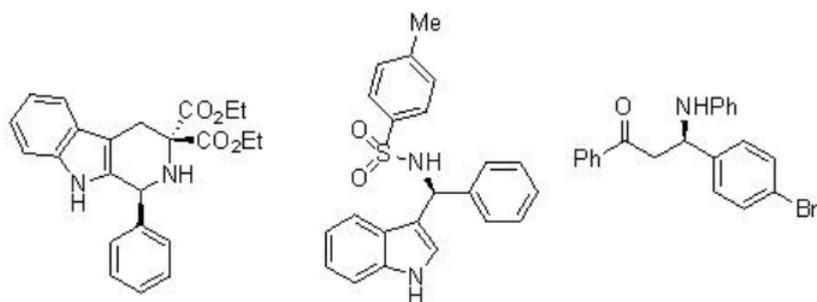
Provide suitable catalysts/reagents for the following conversions.



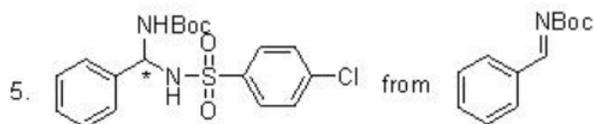
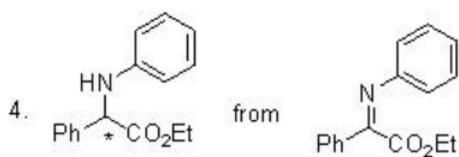
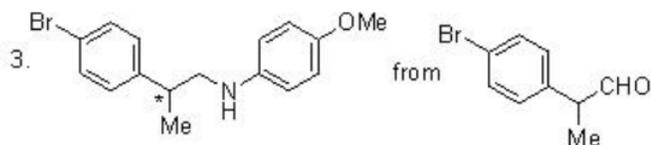
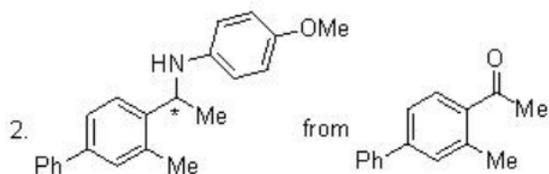
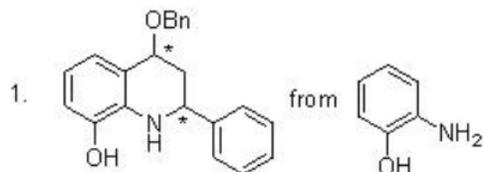
A. What major products would you expect from the following reactions?



B. Write synthetic routes for the following compounds using chiral phosphoric acid catalysts.



How would you employ chiral phosphoric acids in the synthesis of the following?



Reference/Text Book

1. I. Ojima, *Catalytic Asymmetric Synthesis*, 3rd ed., Wiley, New Jersey, 2010.
 2. M. B. Smith, *Organic Synthesis*, 2nd edition, McGraw Hill, New Delhi, 2004.
- I. Ojima, *Catalytic Asymmetric Synthesis*, John Wiley & Sons, New Jersey, 2010.

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