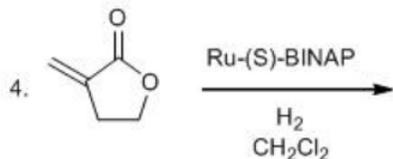
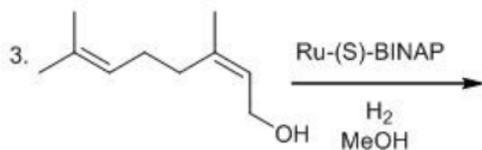
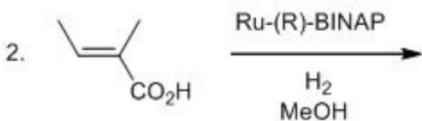
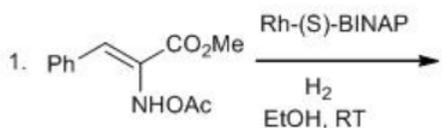


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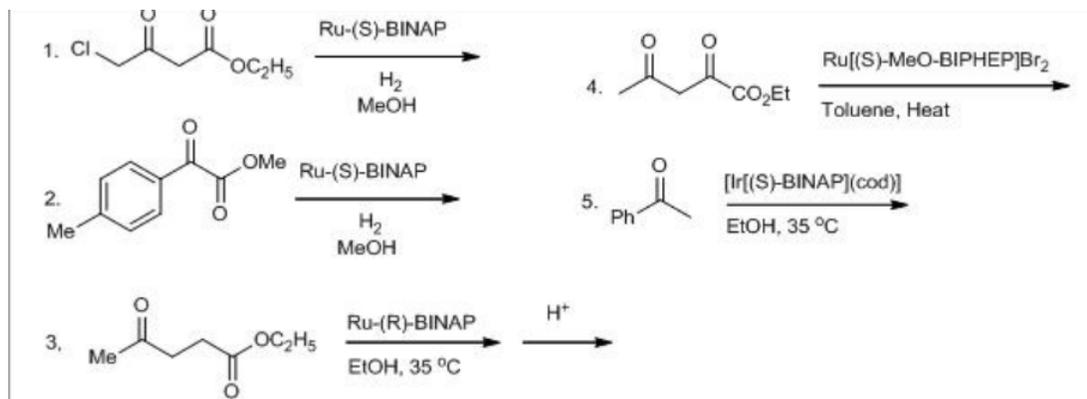
Problems

Predict the major product of the following reactions.

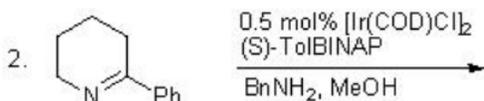
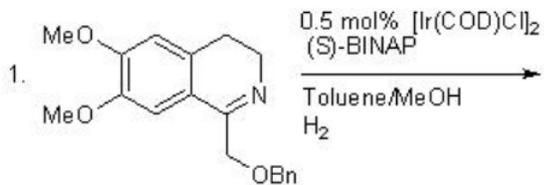


List the phosphine ligands for the asymmetric hydrogenation of carbon-carbon double bonds.

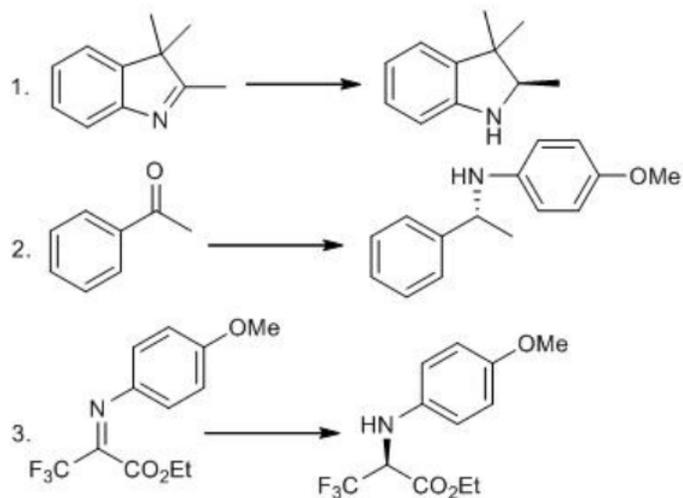
Complete the following reactions.



Complete the following reactions.



How will you carry out the following hydrogenation reactions?



Reference/Text Book

- I. Ojima, *Catalytic Asymmetric Synthesis*, 3rd ed., Wiley, New Jersey, 2010.
- M. B. Smith, *Organic Synthesis*, 2nd edition, McGraw Hill, New Delhi, 200

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