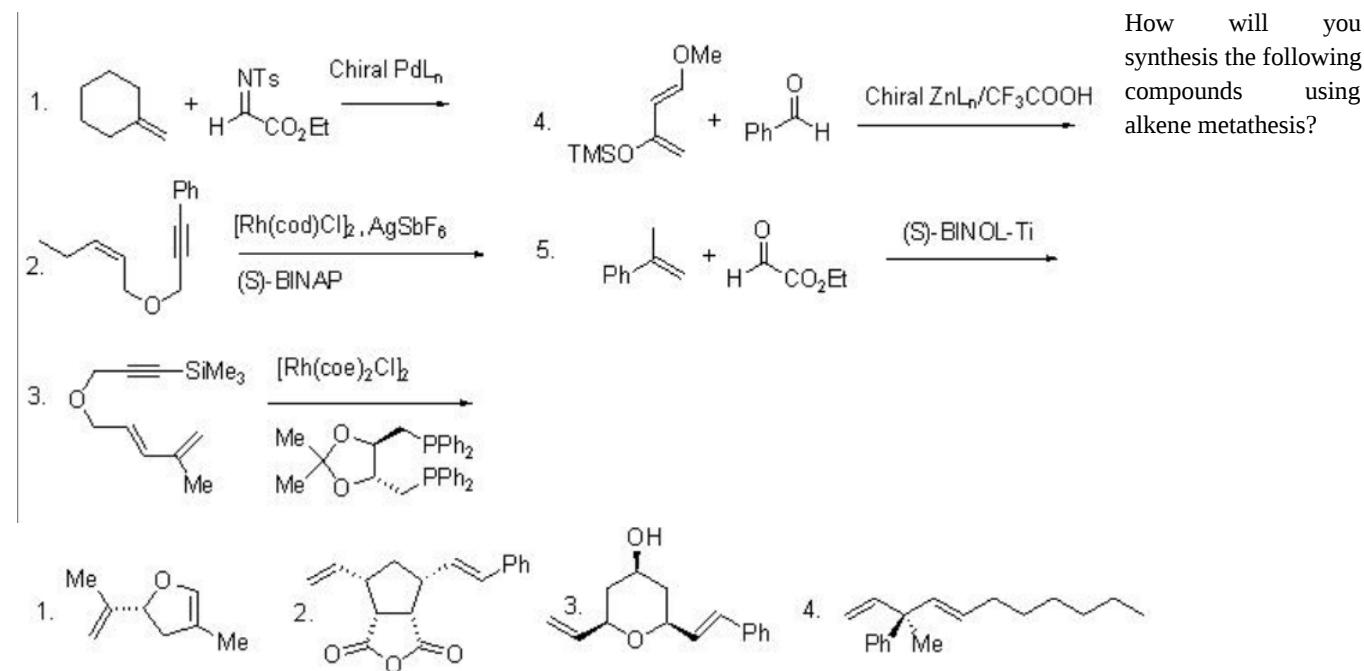


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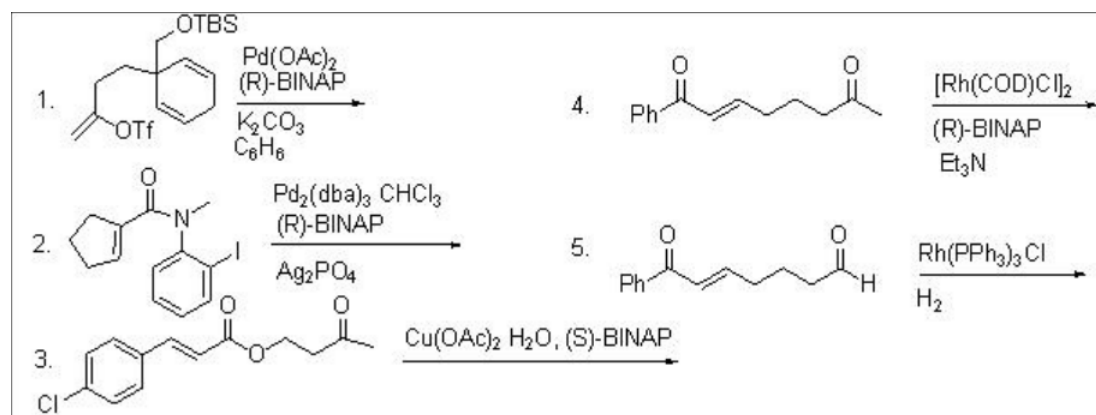
Problems:

Complete the following reactions.



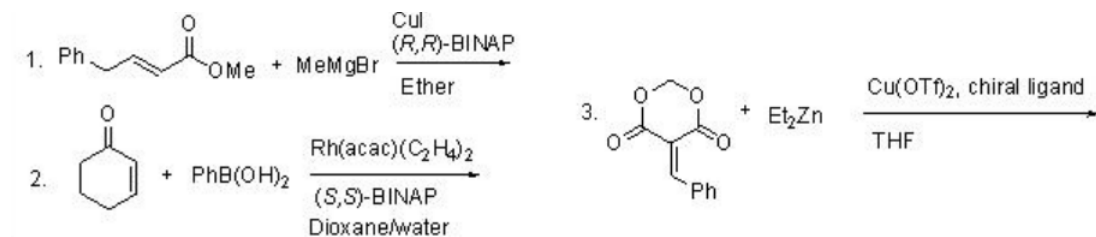
Give some examples of chiral Zr-catalyzed carbometallation reactions.

Complete the following reactions.

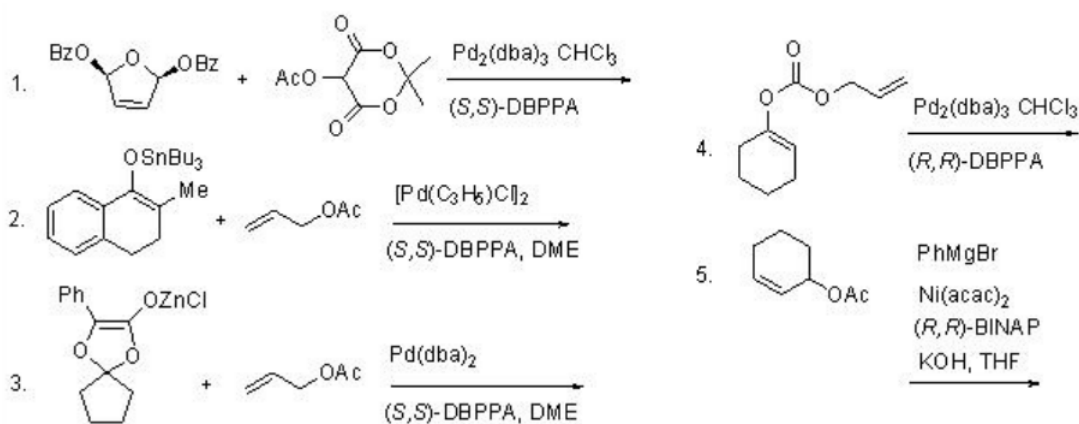


Describe conjugate addition reactions using organocatalysis.

Complete the following reactions.



Predict the major product for the following reactions.



Describe the chiral Fe, Ru, Ir and Rh-catalyzed asymmetric allylic alkylation reactions.

Reference /Text Book

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

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