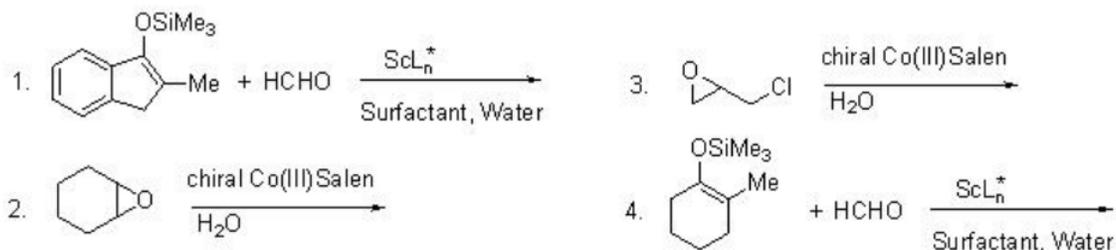


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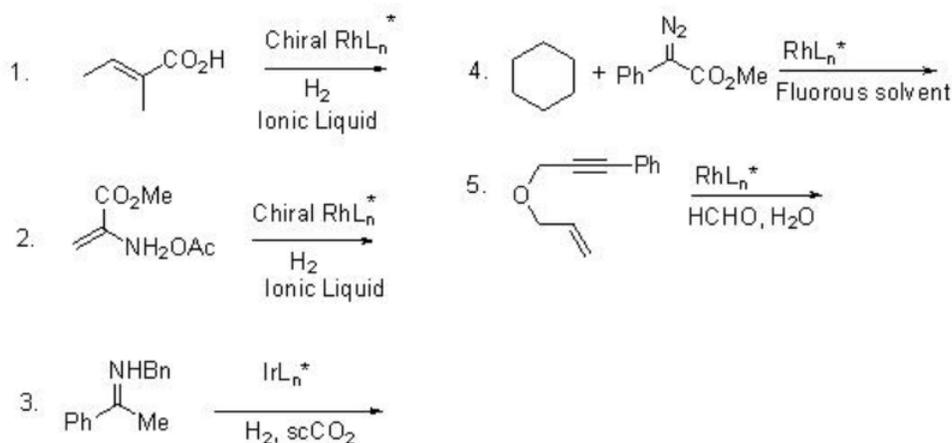
Problems:

Complete the following reactions.



Describe chiral Fe, Ti and Co-catalyzed asymmetric oxidations in water medium.

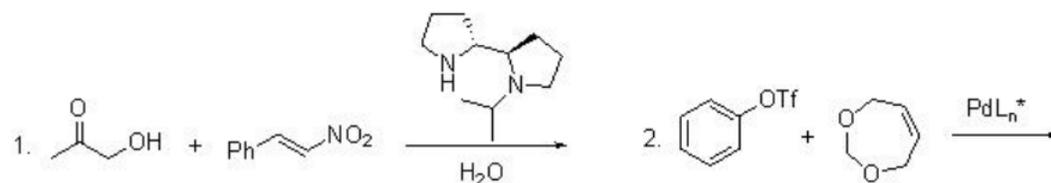
Write the major product for the following reactions.



Provide some examples for asymmetric Heck reaction in water.

Describe asymmetric organocatalysis in water.

Complete the following 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, 2004.

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