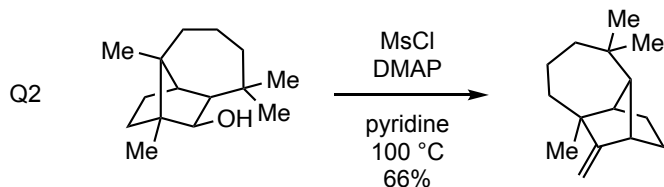
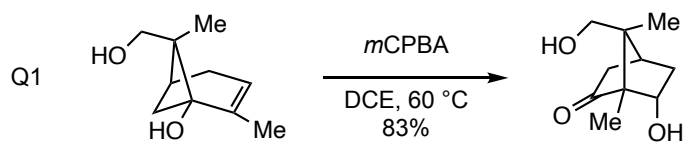
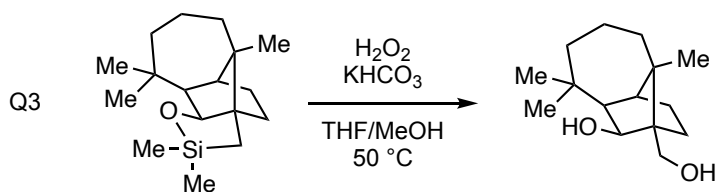


Propose a reasonable arrow-pushing mechanisms for these transformations.



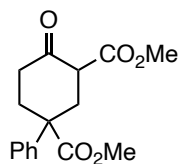
(Original report: Kuo, D. L., Money, T. *Can. J. Chem.* **1988**, 66, 1794–1804.)



Hint: F^- source is typically used for this transformation.

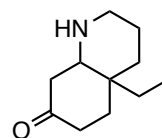
Robert F, Lusi, Goh Sennari* and Richmond Sarpong*
Nat. Chem. 10.1038/s41557-021-00870-4

Retrosynthesis Practice problem



≤ 6 steps

starting materials =C1~C7



≤ 6 steps

starting materials =C1~C7