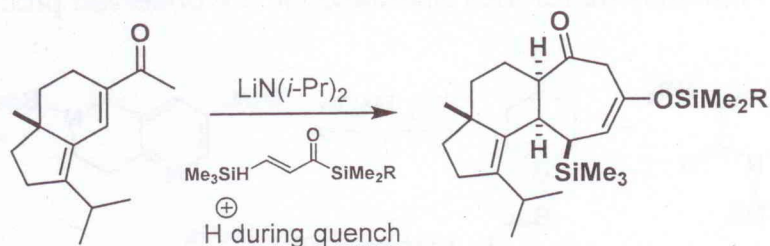


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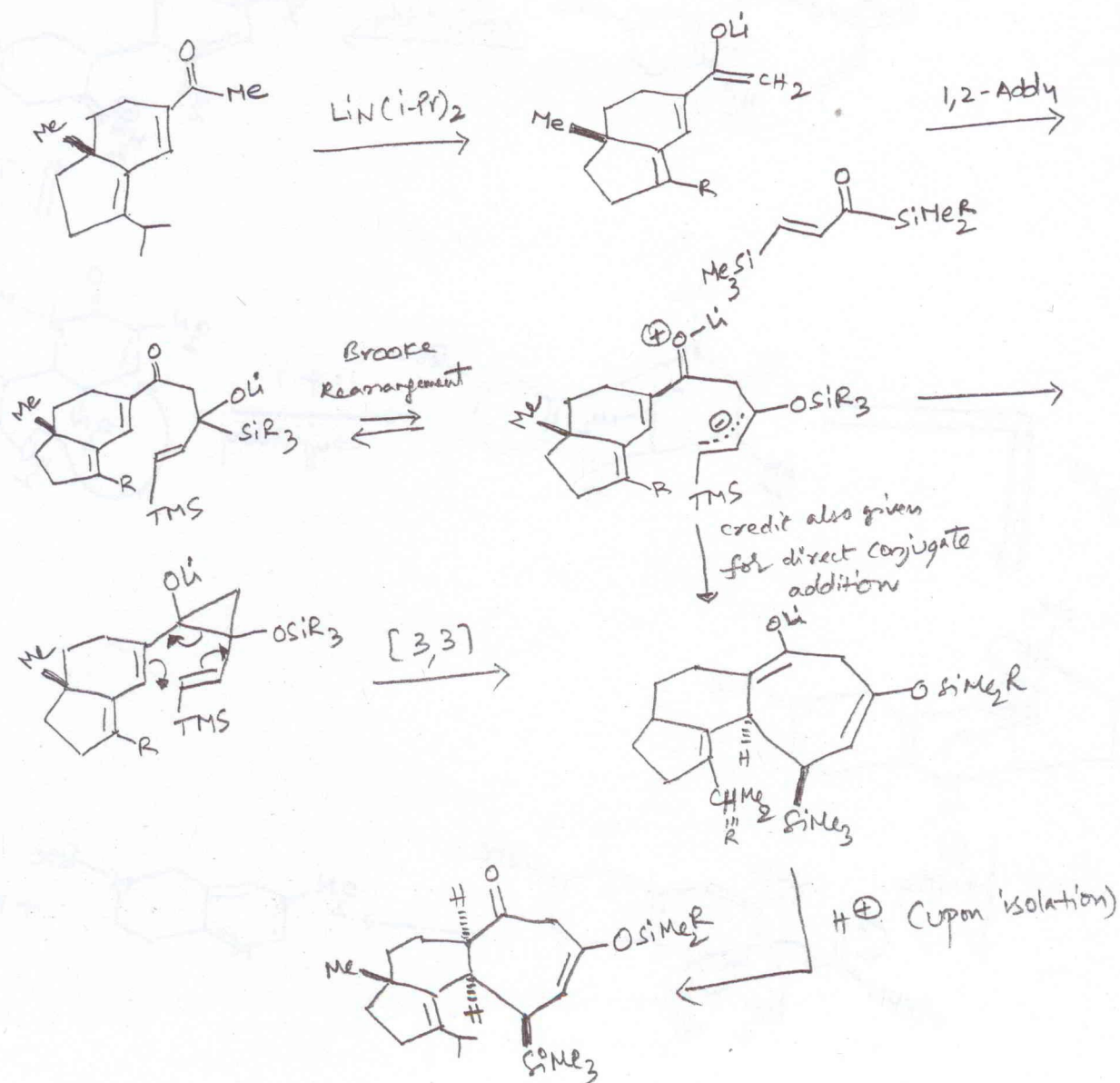
(credit: Dr. Evans CCB problem sets)

Problem set – VINOD (May 18 2018)

Problem-1:

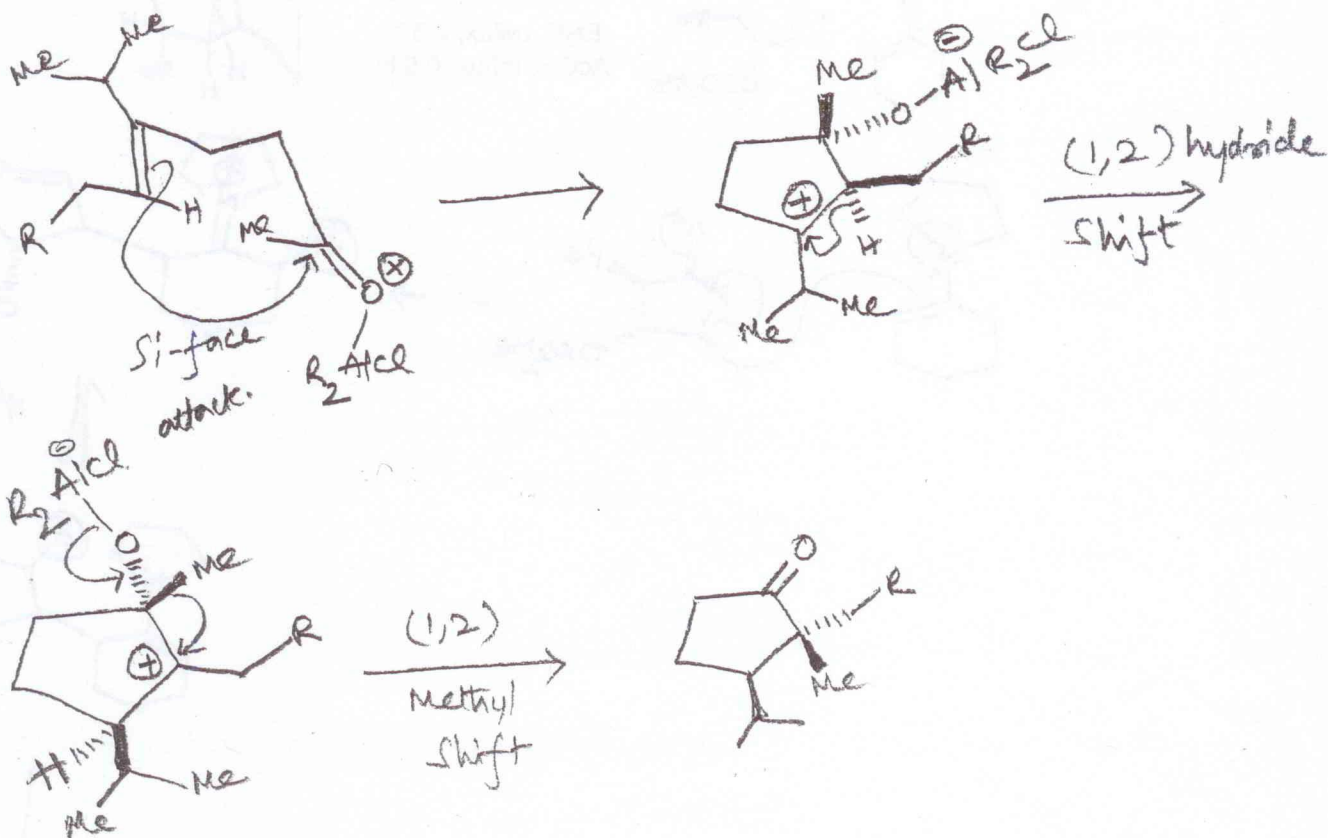
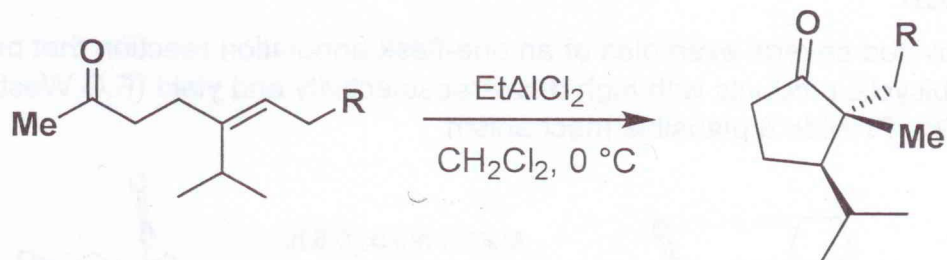


Takeda and co-workers
Org. Lett. 2000, 2, 1903



Problem-2:

The reaction illustrated below was recently reported by Snider and co-workers (Org. Lett. 2001, 123, 569-572). Where stereochemical issues are present, provide clear three dimensional drawings to support your answer.



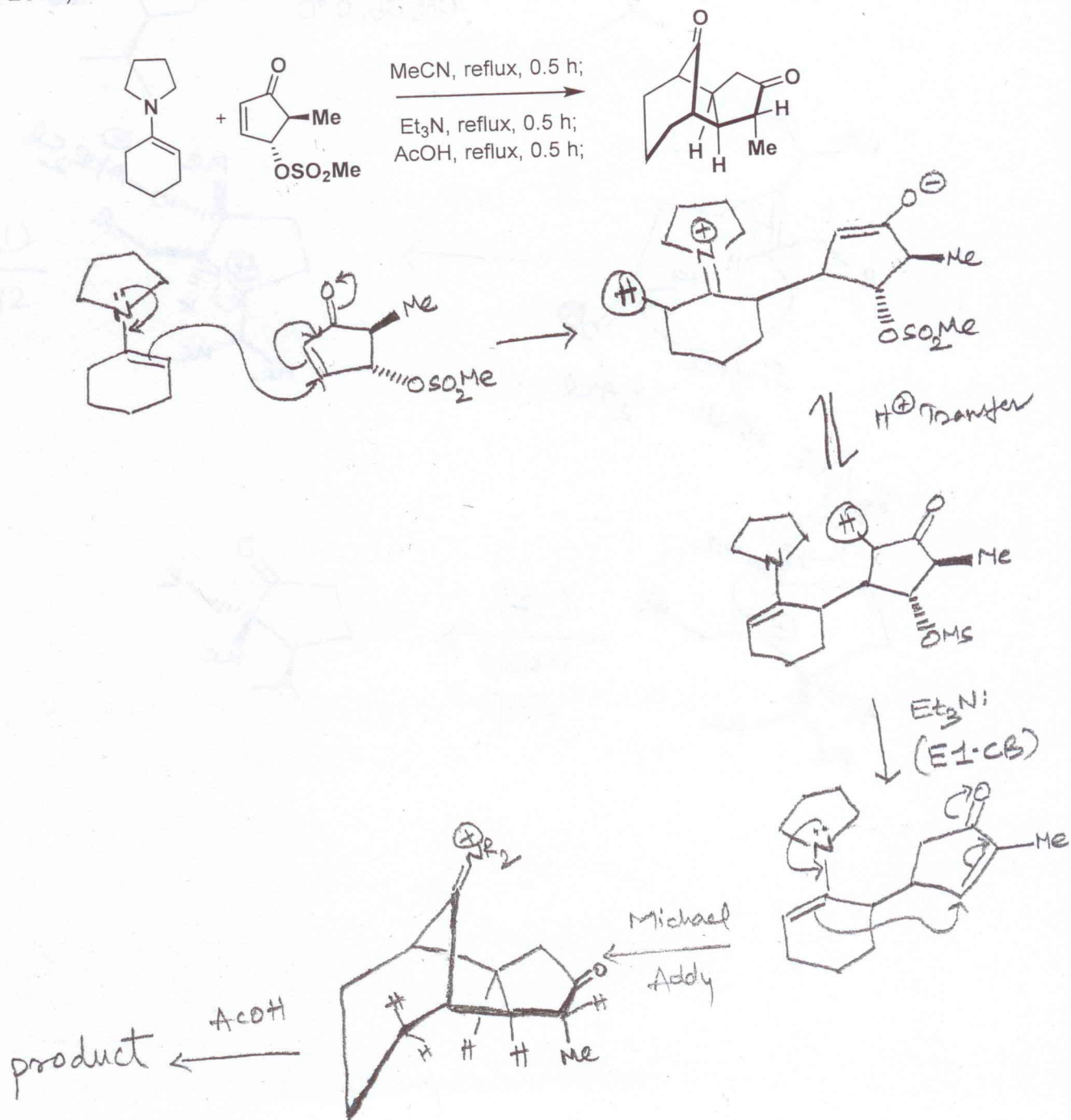
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(credit: Dr. Evans CCB problem sets)

Problem set – ANDHINA (May 18 2018)

Problem-1:

West provided several examples of an one-flask annulation reaction that provides bridged bicyclic products with high diastereoselectivity and yield (F.G.West JACS 1997, 119, 2066). Provide a plausible mechanism.



Problem-2:

The following pyridine synthesis has been reported by Tohda (Bull. Chem. Soc. Jpn. 1990, 63, 2820-2827). Provide a plausible mechanism for this complex transformation.

Hint: To begin to solve a problem of this type, orient the two reacting components in such a fashion that they mirror their orientation in the observed product.

