

Last Name:

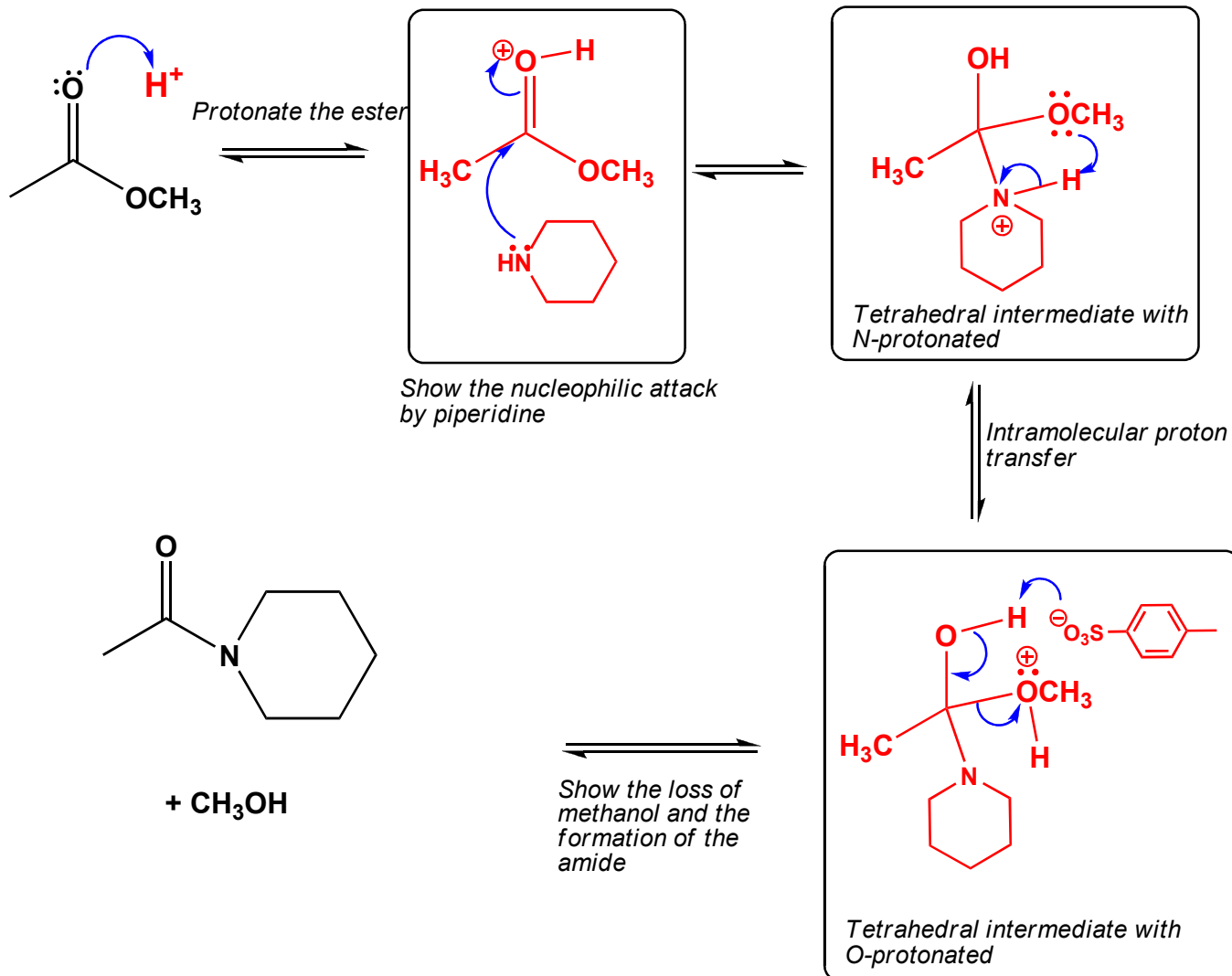
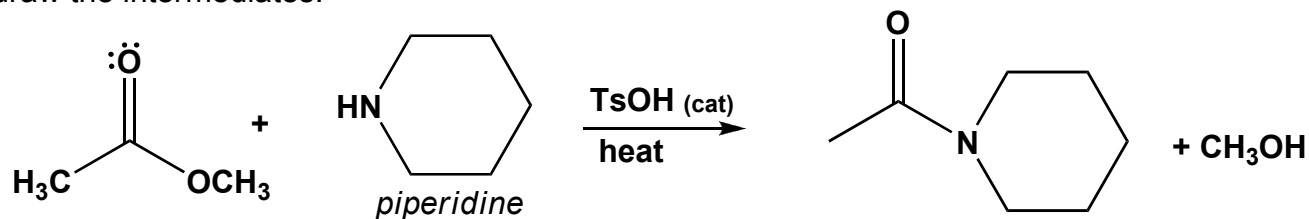
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SCORE: **KEY**

Deadline for CH310N HW 4, Due: Oct 10 3:00 PM

**Mechanism:** Provide a mechanism for the following transformation. Show all important flows of electrons, charges and intermediates. Where indicated, (in the structure-n-a-box)- draw the intermediates.



**Retrosynthesis:** Each of the following  $\alpha,\beta$ -unsaturated ketones can be produced from an aldol condensation-dehydration reaction. Provide the starting material(s) for the preparation of each compound.

