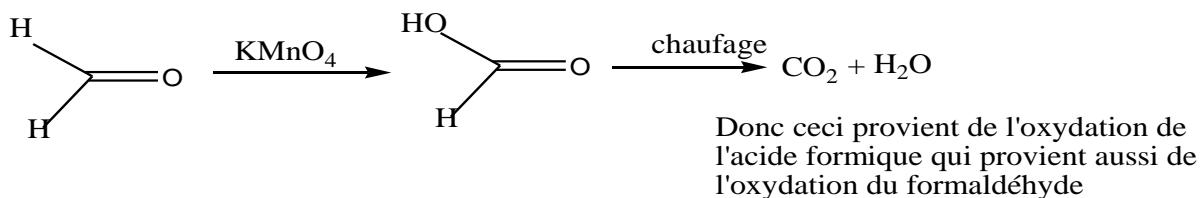
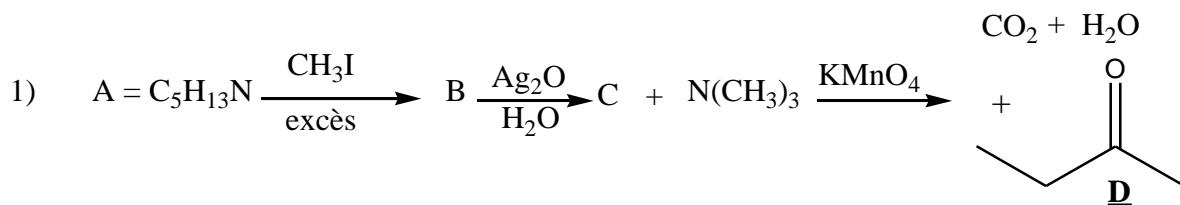


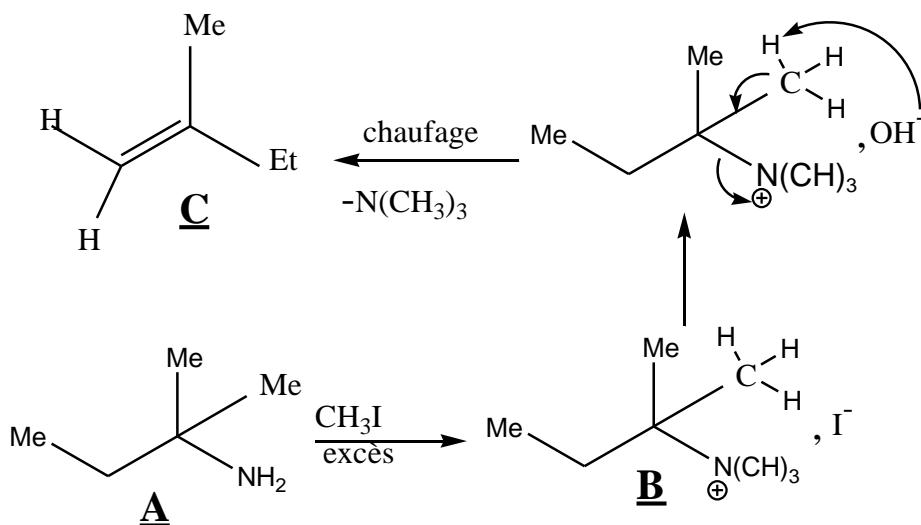
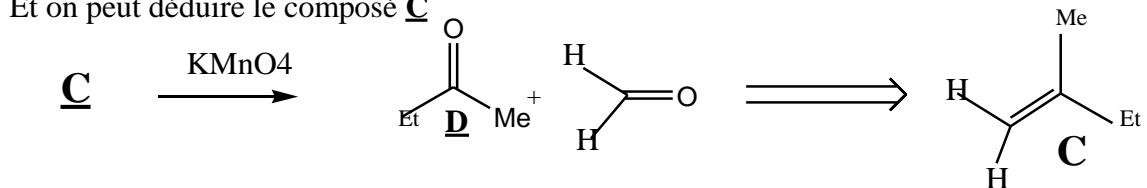
Correction d'examen chimie organique fonctionnelle

Filière SMC S5 / Janvier 2016

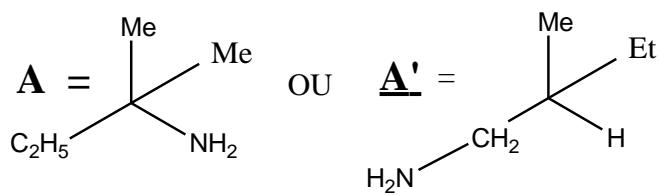
Exercice 1



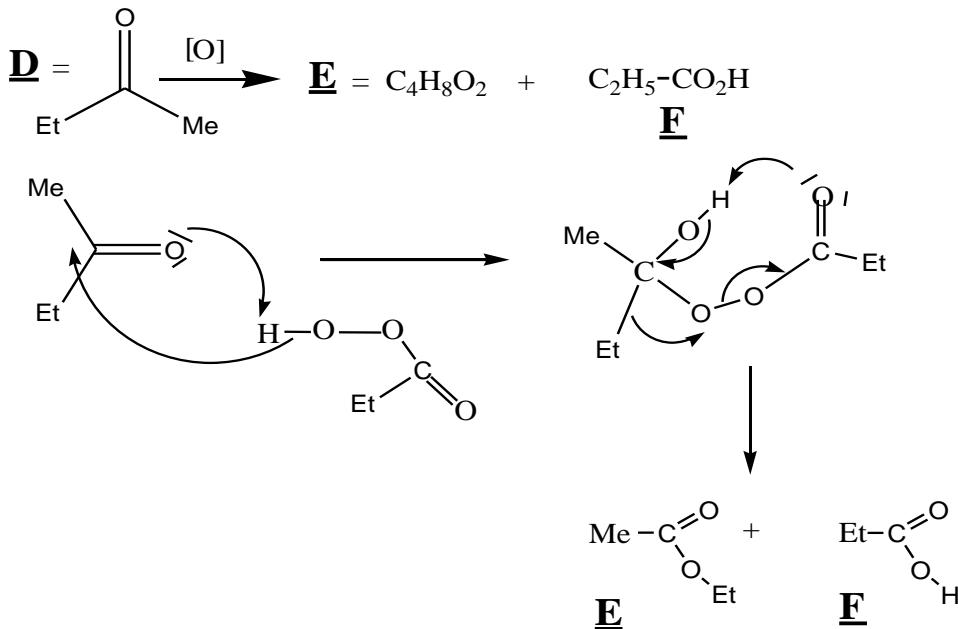
Et on peut déduire le composé **C**



2)



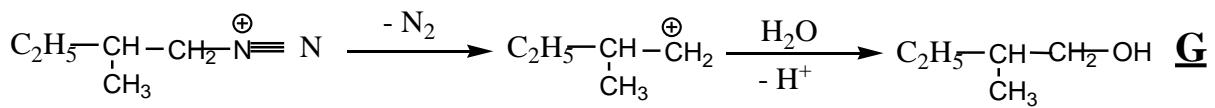
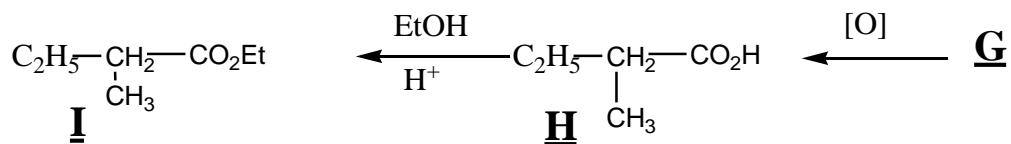
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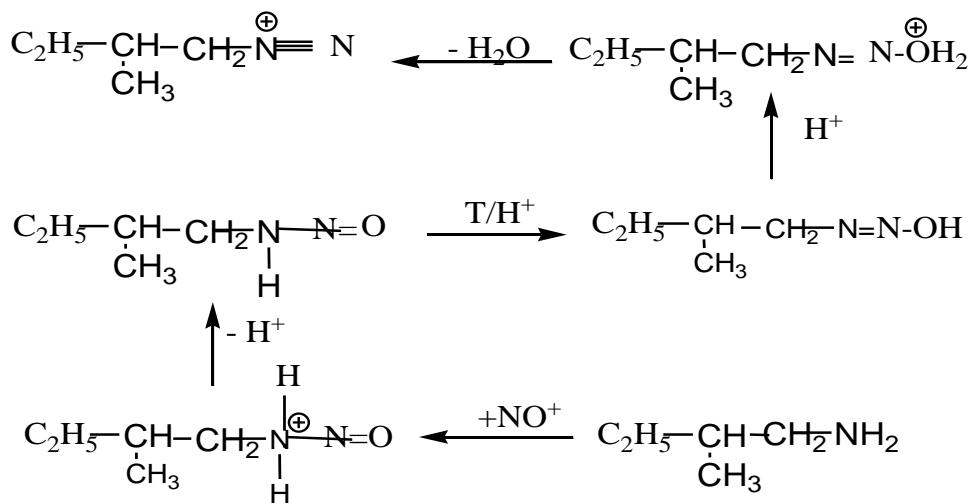


4) Réaction : oxydation de Baeyer villiger

Mécanisme voir 3)

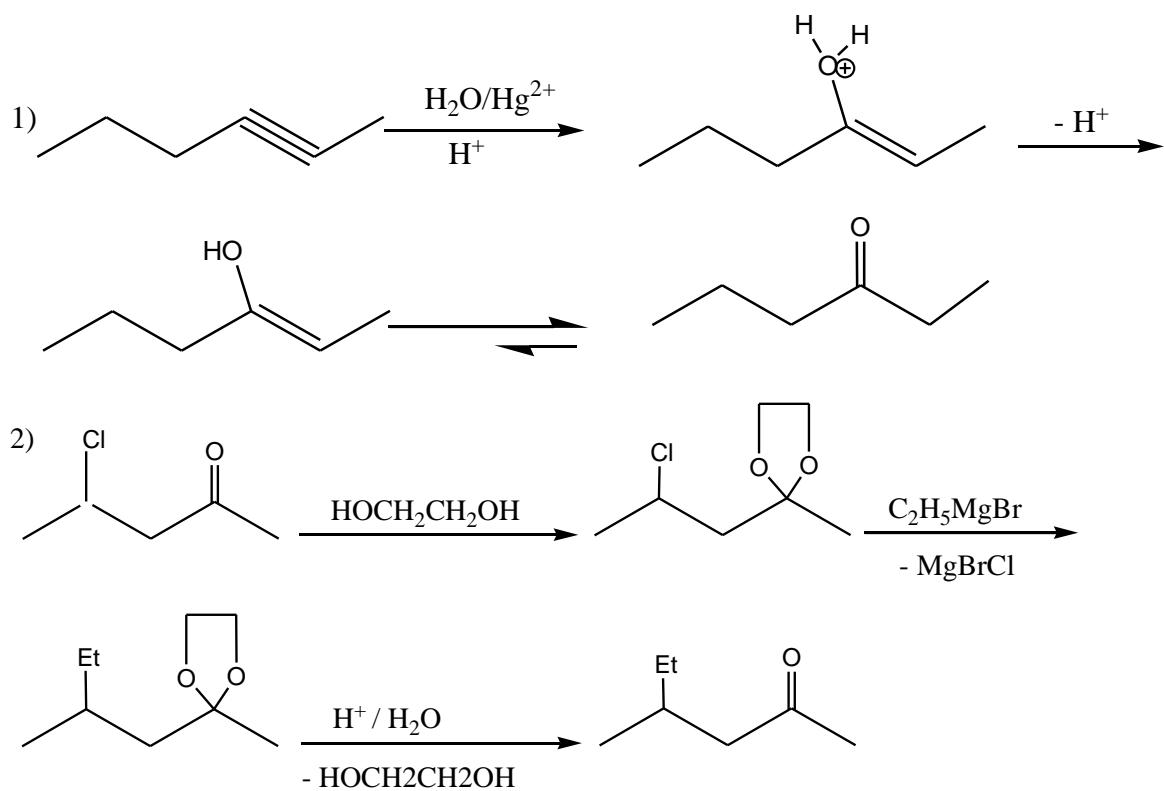
5)



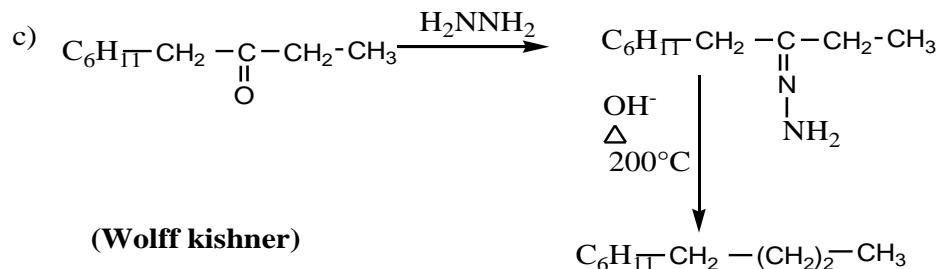
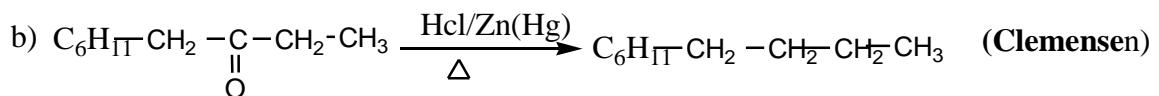
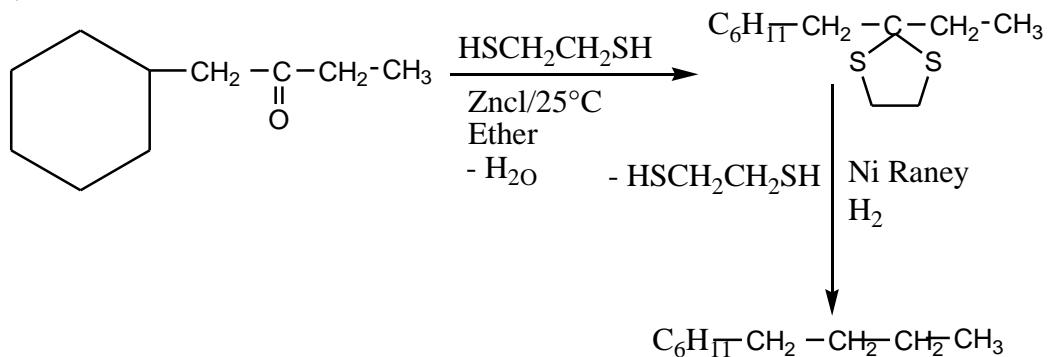


Donc l'unique structure de A est $\text{C}_2\text{H}_5-\overset{\text{H}}{\underset{\text{CH}_3}{\text{CH}}}-\text{CH}_2\text{NH}_2$

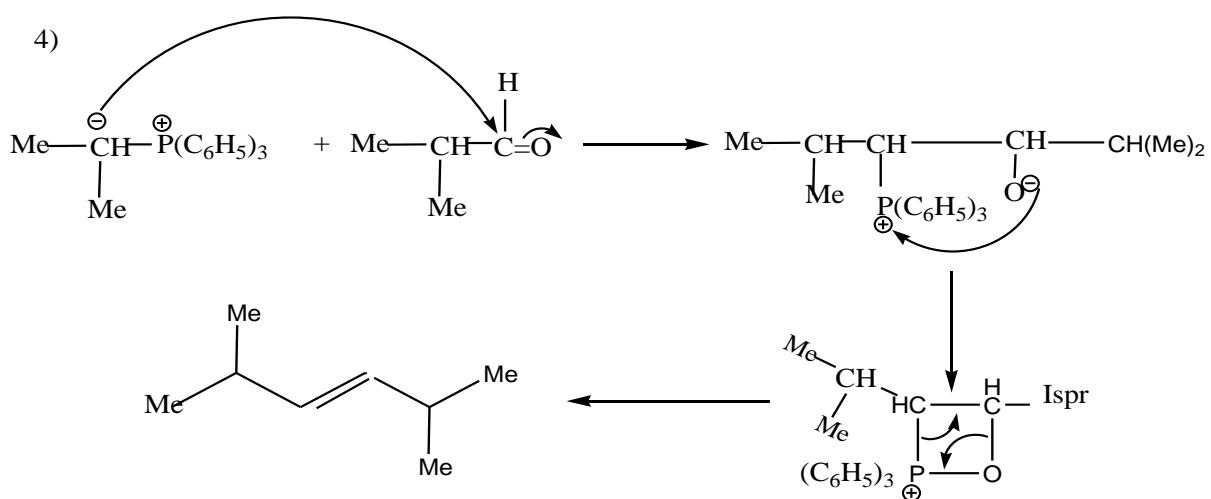
Exercice 2

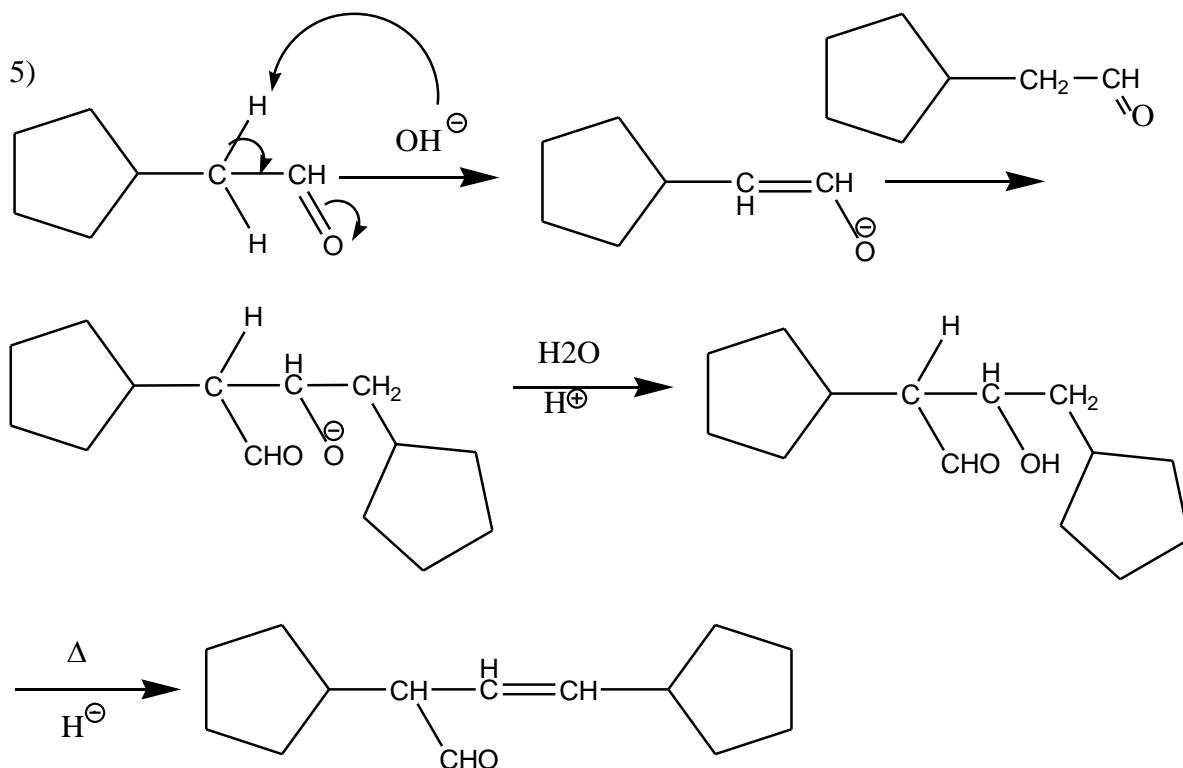


3) a)



4)





II) Nom des réactions : 1) Hydratation d'un alcyne

2) Substitution par protection du carbonyle

3) Réduction d'un carbonyle en CH₂ :

-a) Réduction par l'éthane-1,2-dithiol

-b) Clemensen

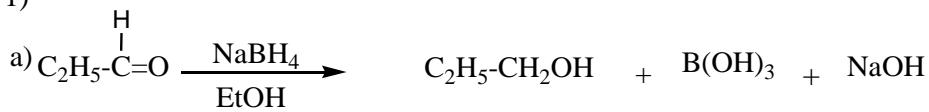
-c) Wolff kishner

4) Réaction de Wittig

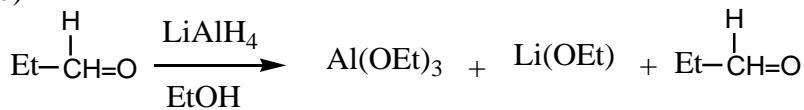
5) Aldolisation

Exercice 3

1)

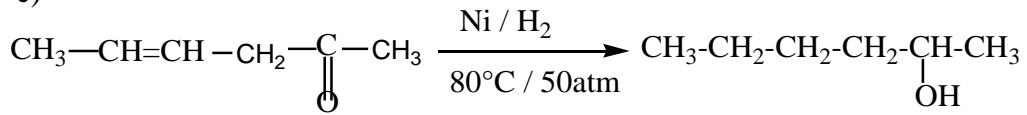


b)

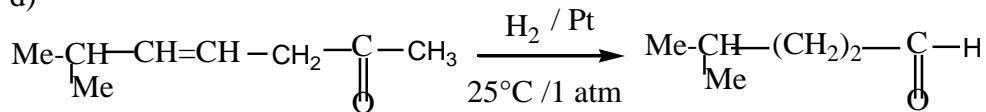


Le solvant protique EtOH réagit avec LiAlH₄ alors qu'il ne réagit pas avec NaBH₄

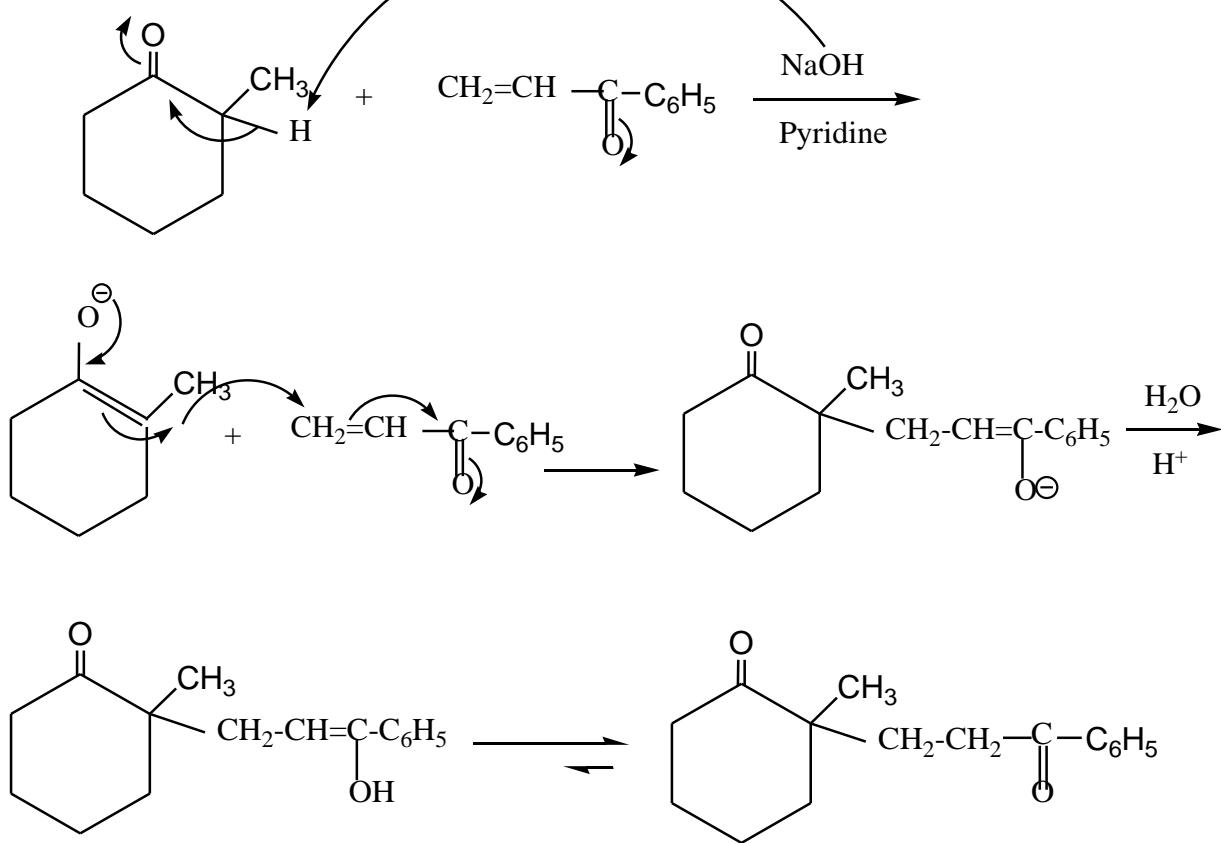
c)



d)



e)



2) C'est l'addition de Michael d'un énolate sur un carbonyle α, β éthylénique.