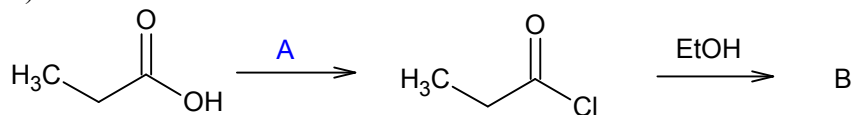


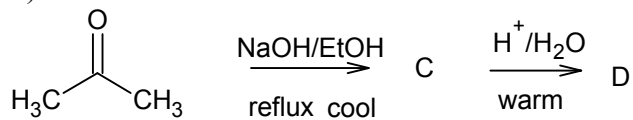
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1. Fill in the blanks in the following reactions.

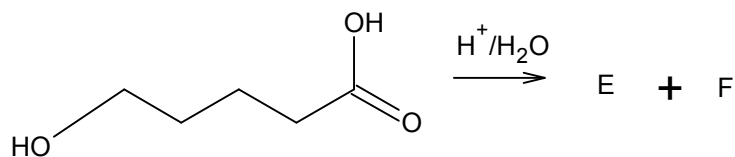
a)



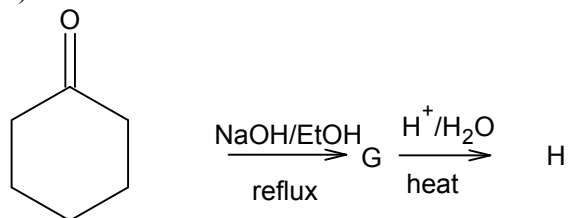
b)



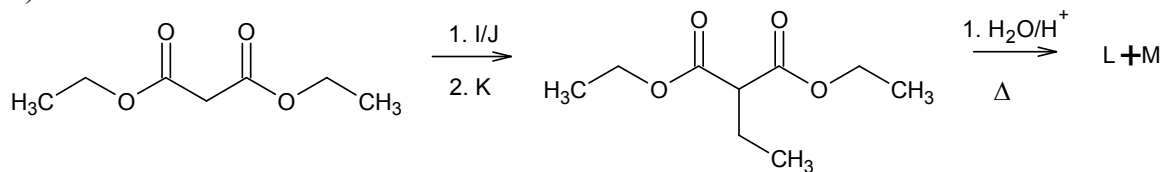
c)



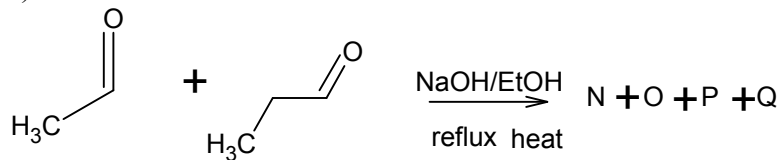
d)



e)

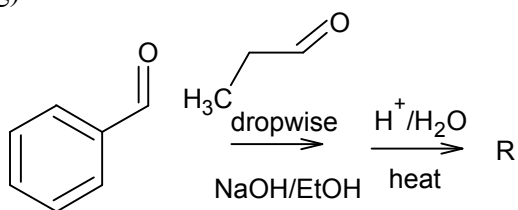


f)

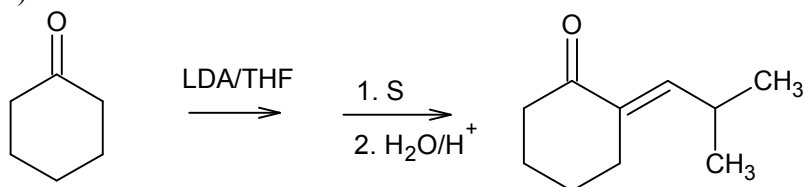


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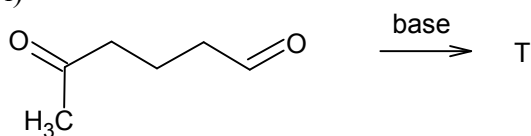
g)



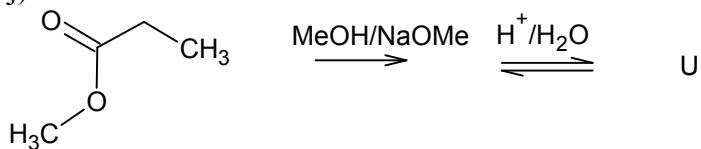
h)



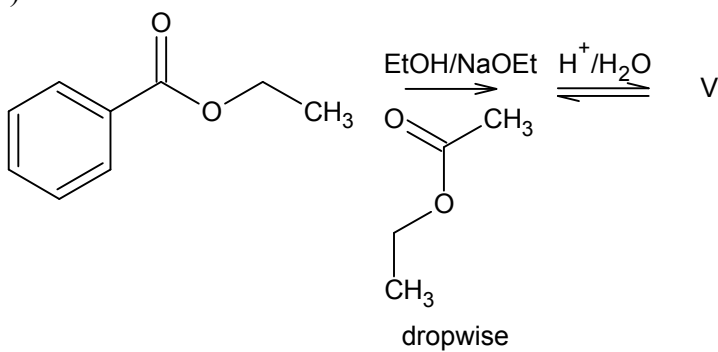
i)



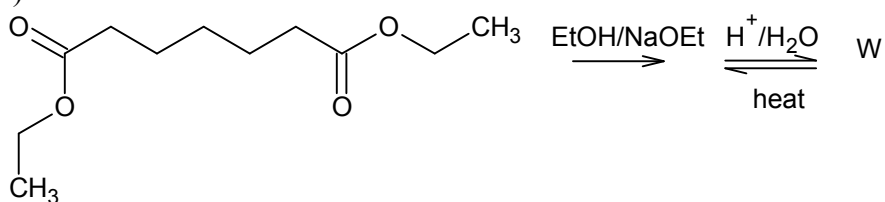
j)



k)



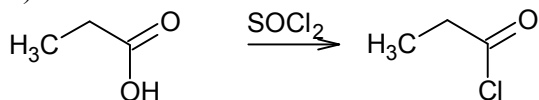
l)



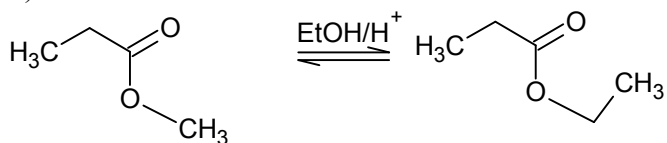
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2. Propose a mechanism for the following transformations.

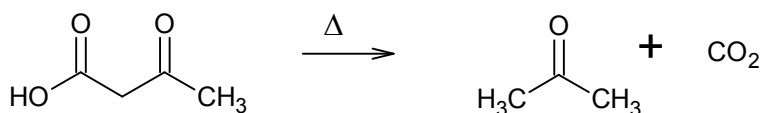
a)



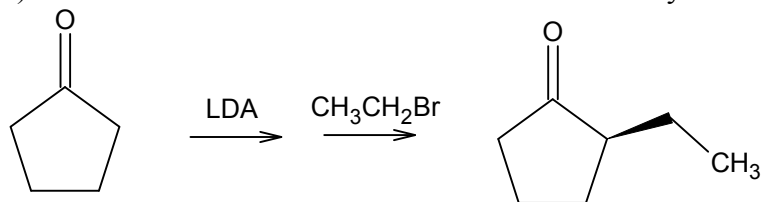
b)



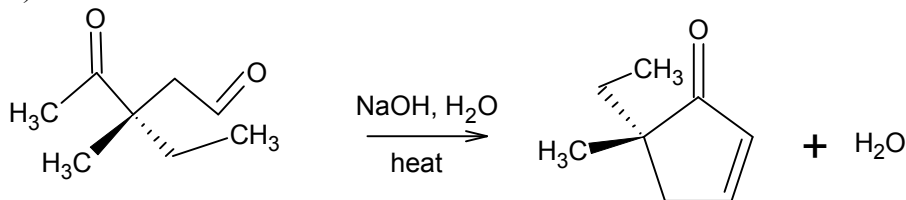
c)



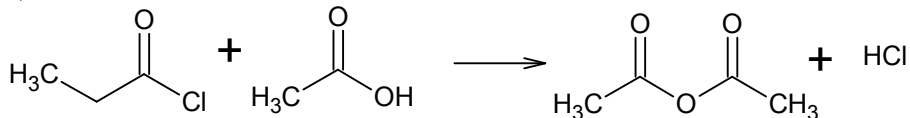
d) Make sure to show the resonance structures of any intermediates on this one.



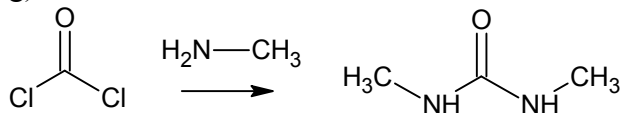
e)



f)



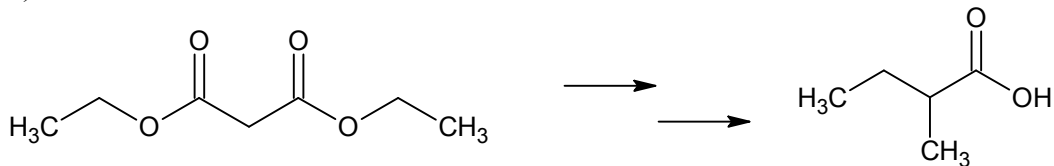
g)



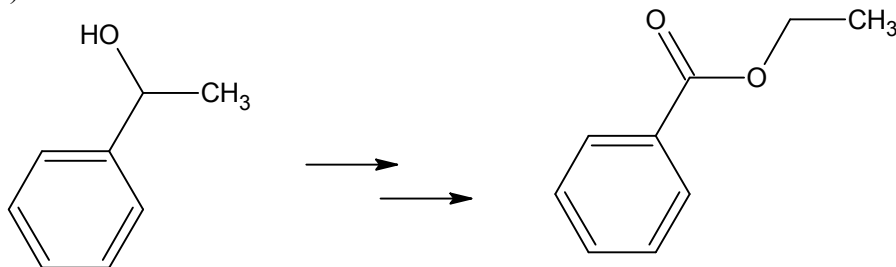
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3. Propose Syntheses for the following transformations.

a)



b)



c)

