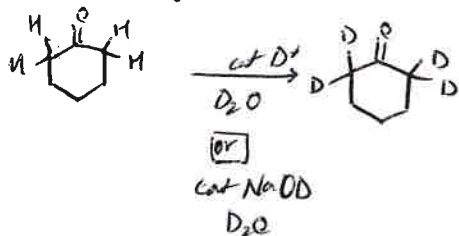


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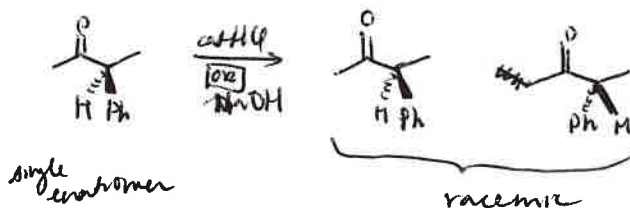
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Rxns:

1) H/D exchange

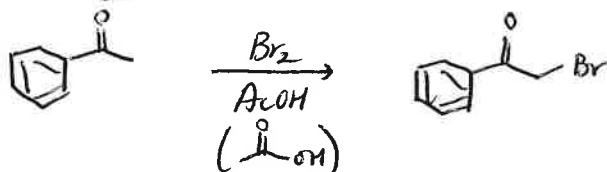


2) α -isomerization

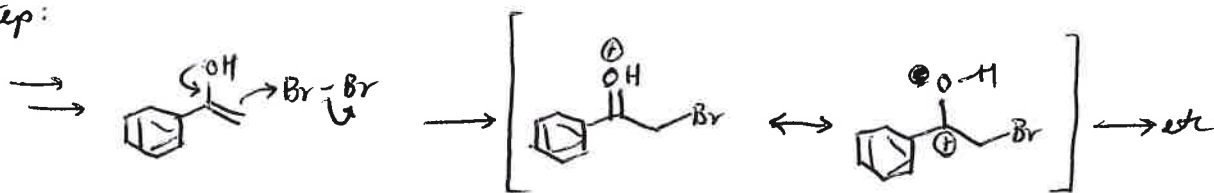


3) α -halogenation (Cl, Br, I)

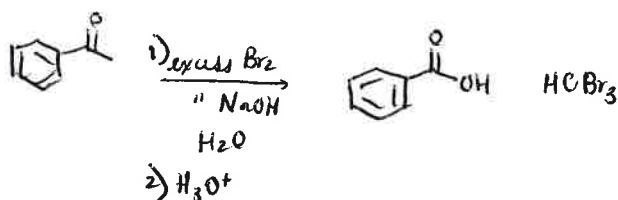
acid catalyzed



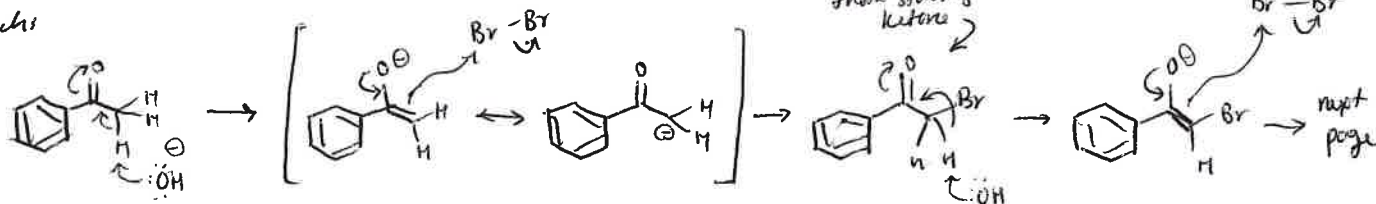
key step:



base conditions "haloform reactions"

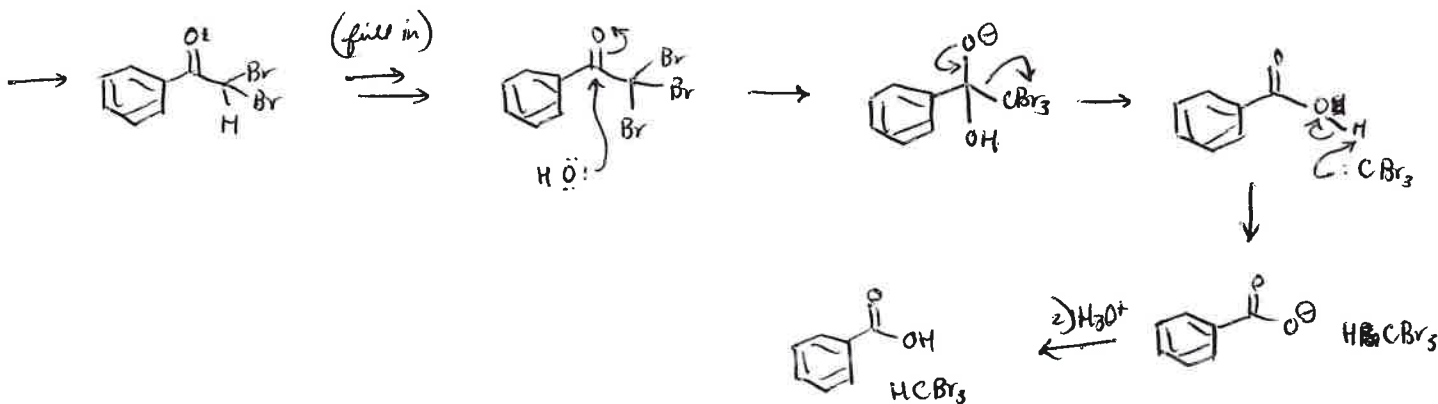


mech:



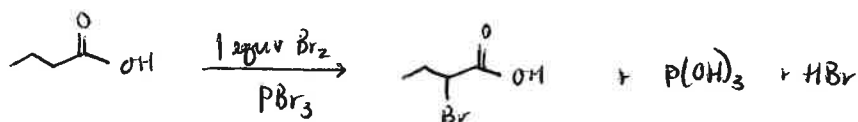
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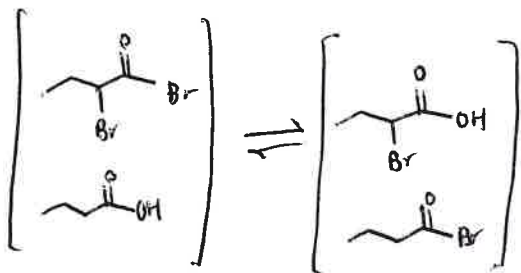
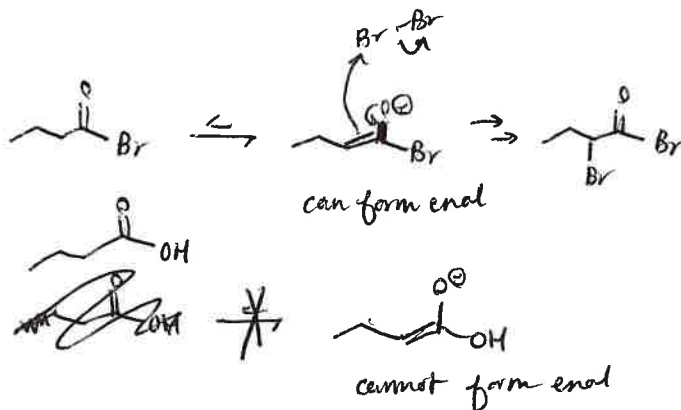


4) α -Bromination of carboxylic acids (2 variants)

variant 1



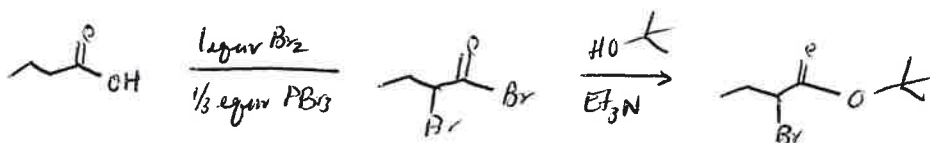
role of PBr_3 :



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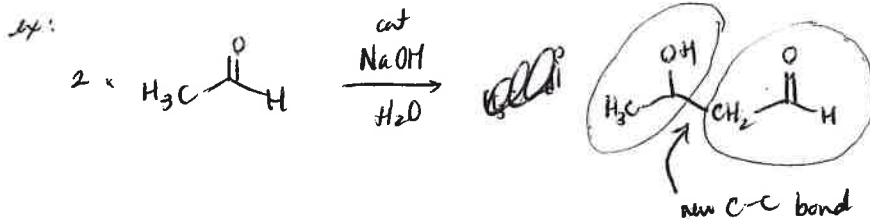
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Variant #2



//

Aldol Reaction



mech:

