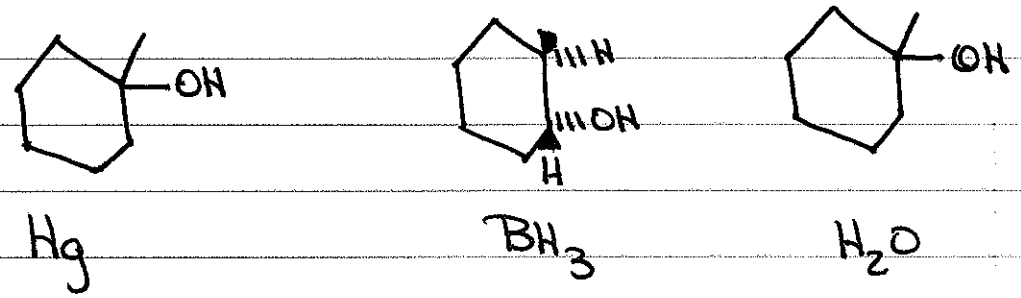
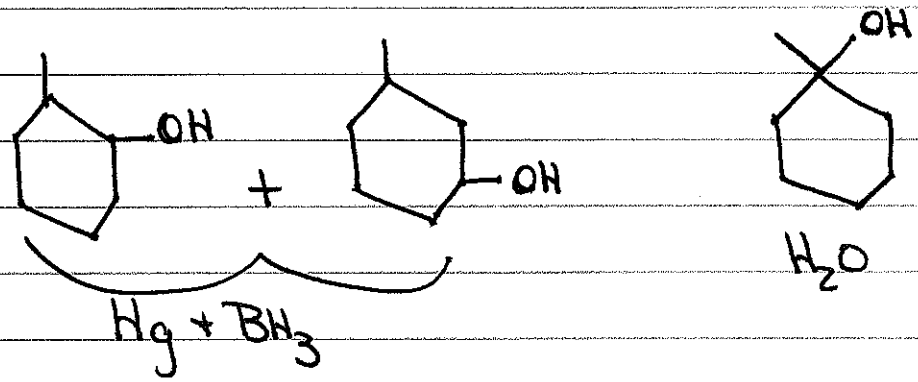
* Rxns of Alcohols Application Answers

1.

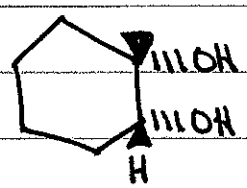
a.)



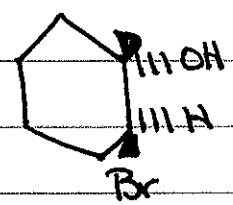
b.)



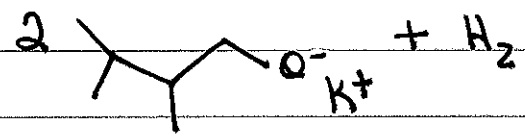
c.)



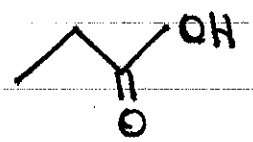
d.)



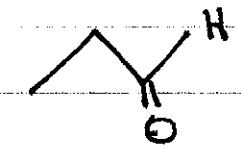
e.)



f.)

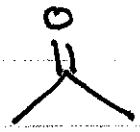


Cr on $KMnO_4$



PCC

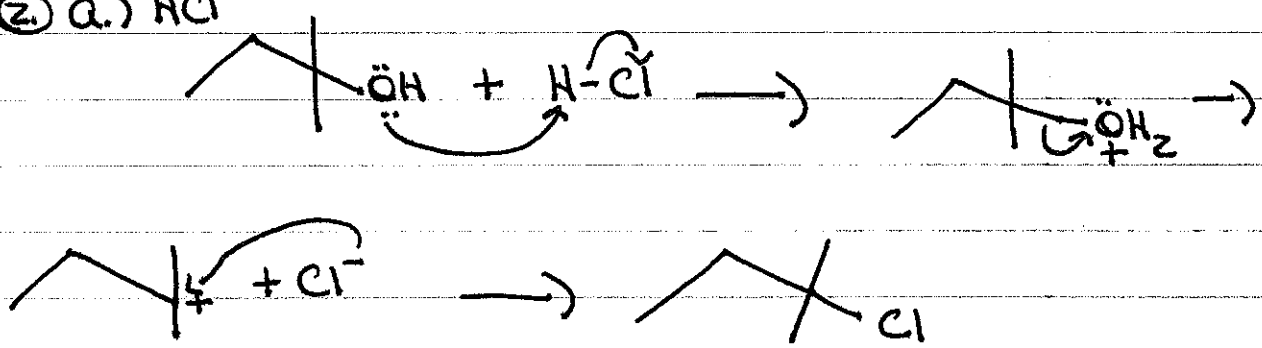
g.



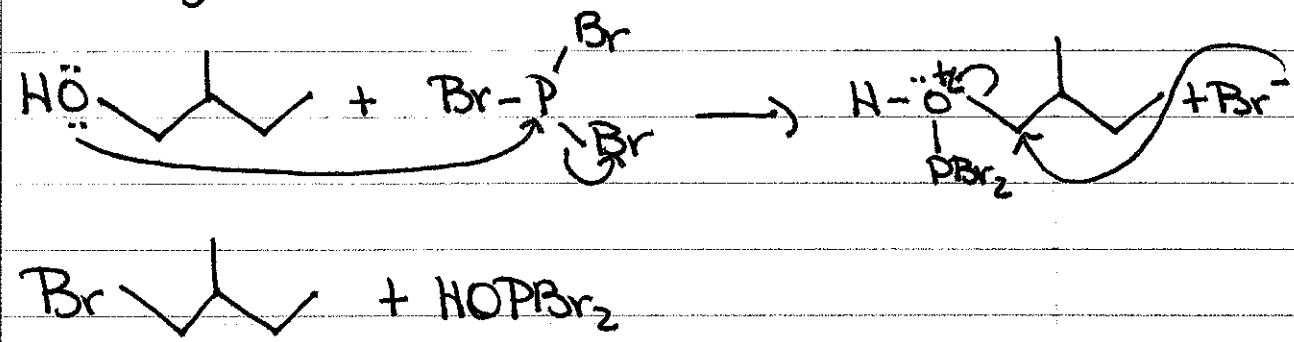
Cr, $KMnO_4$, + PCC

h.) No Rxn Never oxidize 3° ROH!

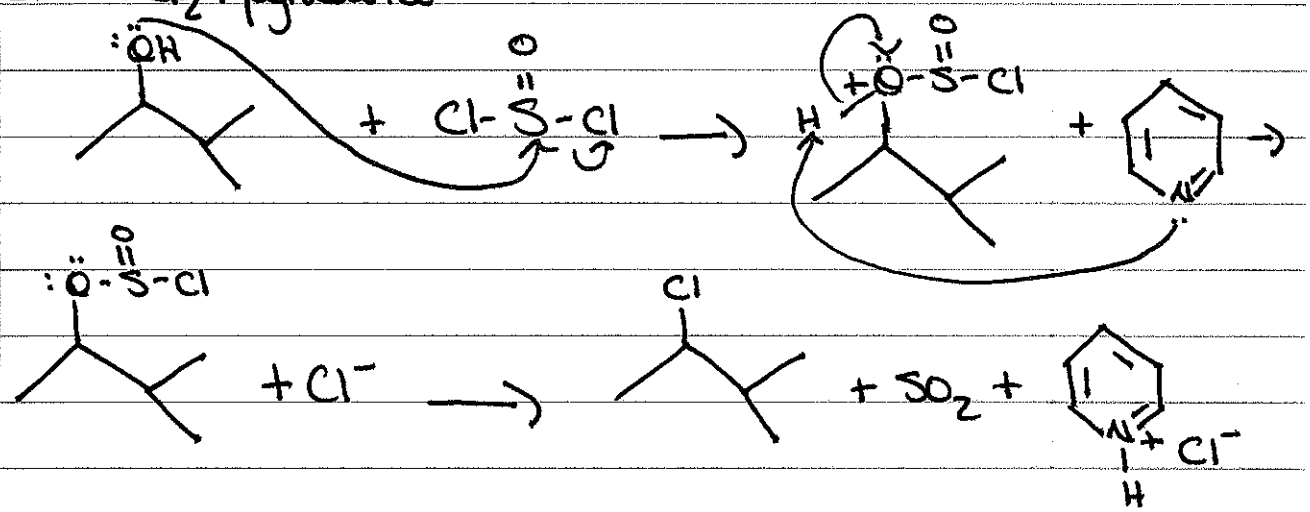
2. a.) HCl



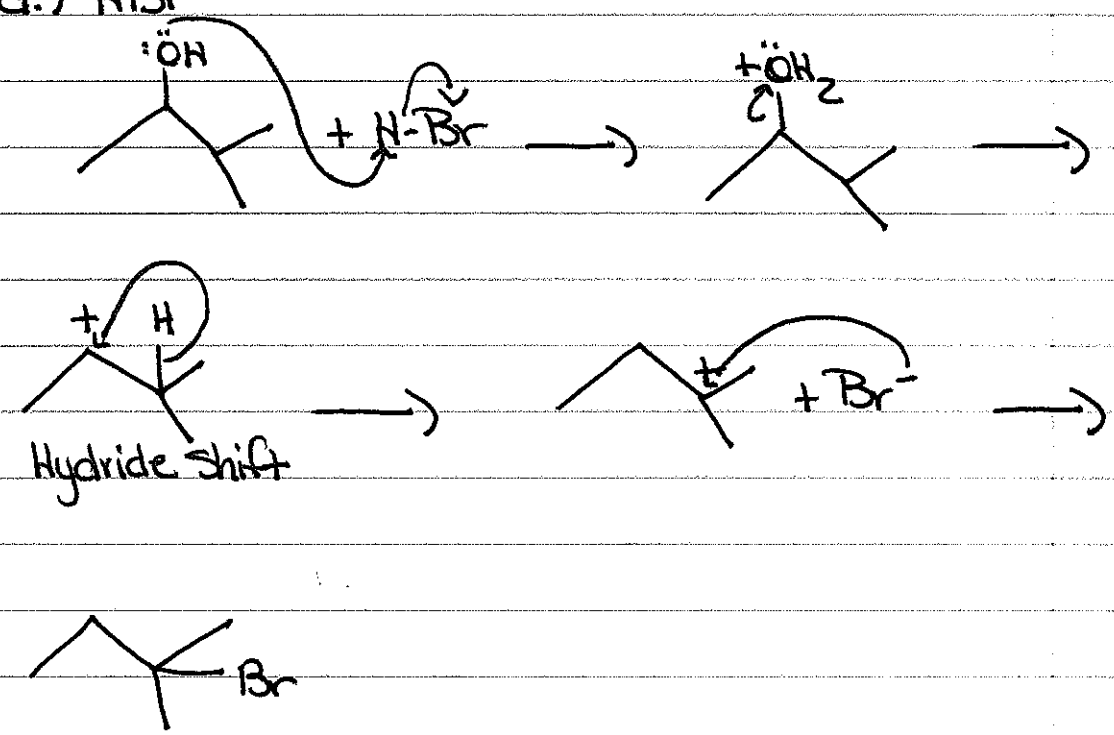
b.) PBr_3 + Ether



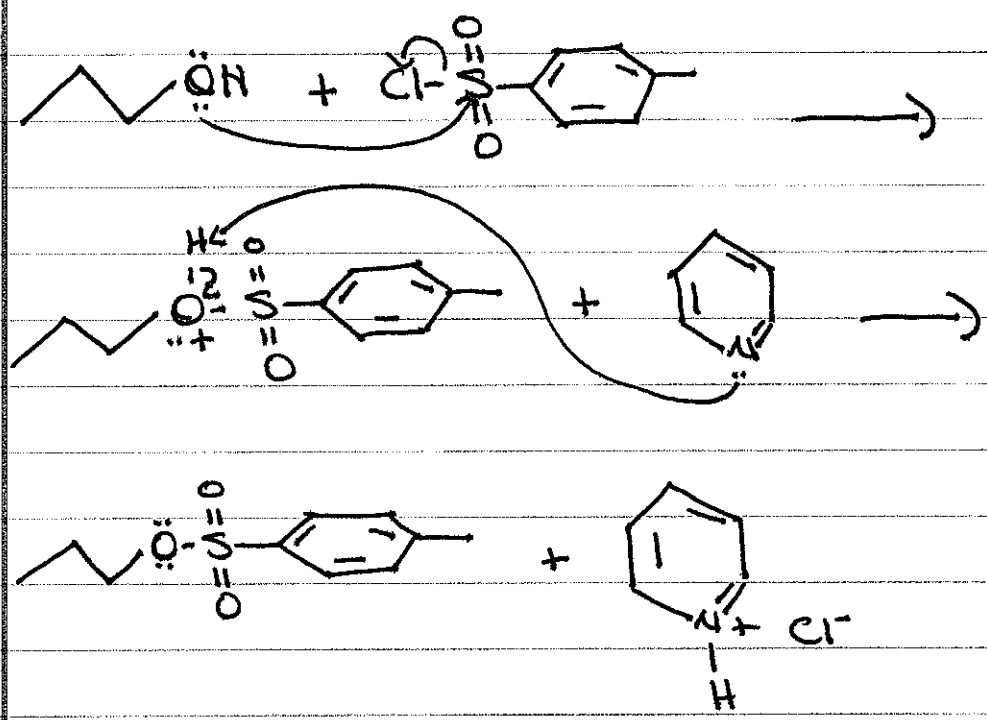
c.) $SOCl_2$ + pyridine



d.) HBr



e.) Tosyl chloride + pyridine



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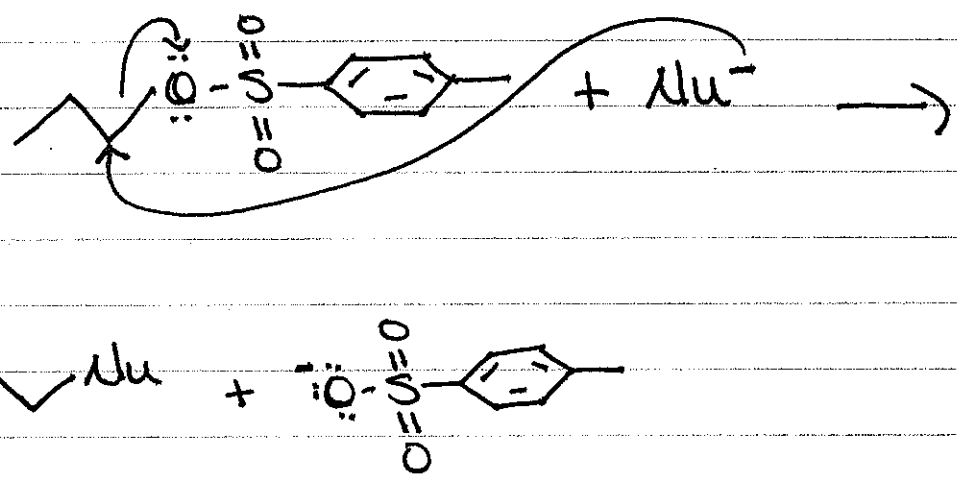
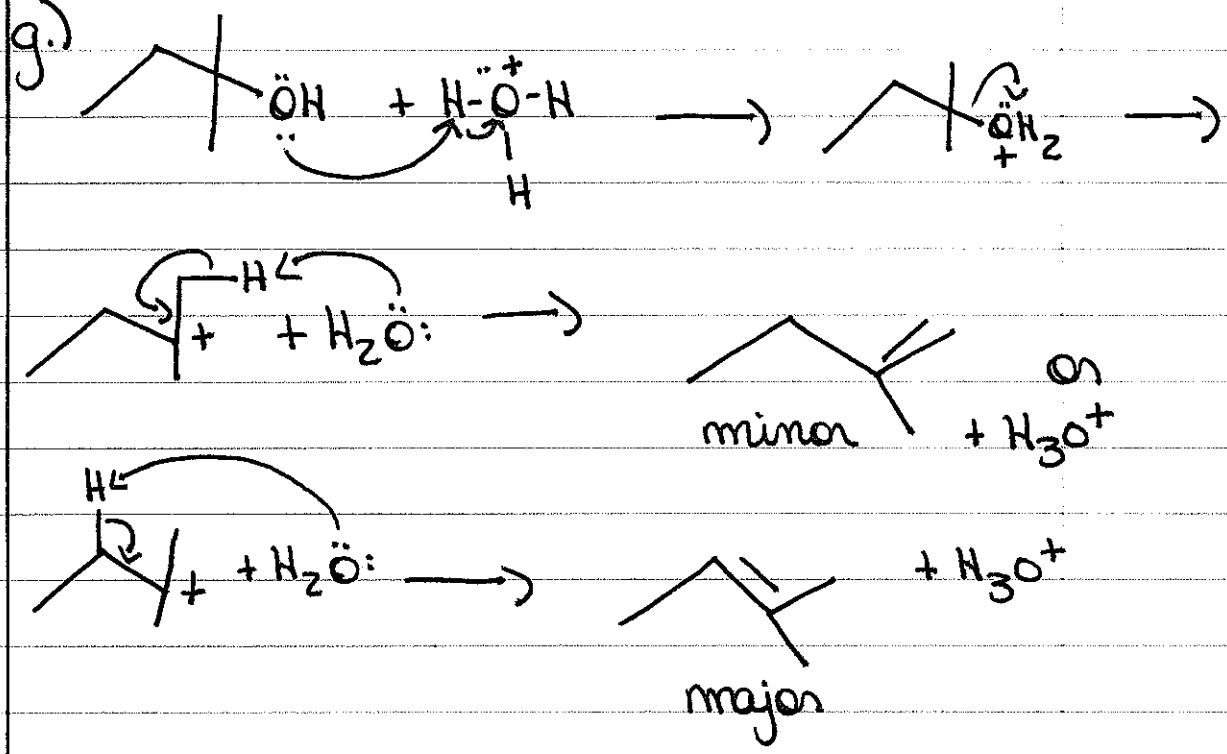


g.)



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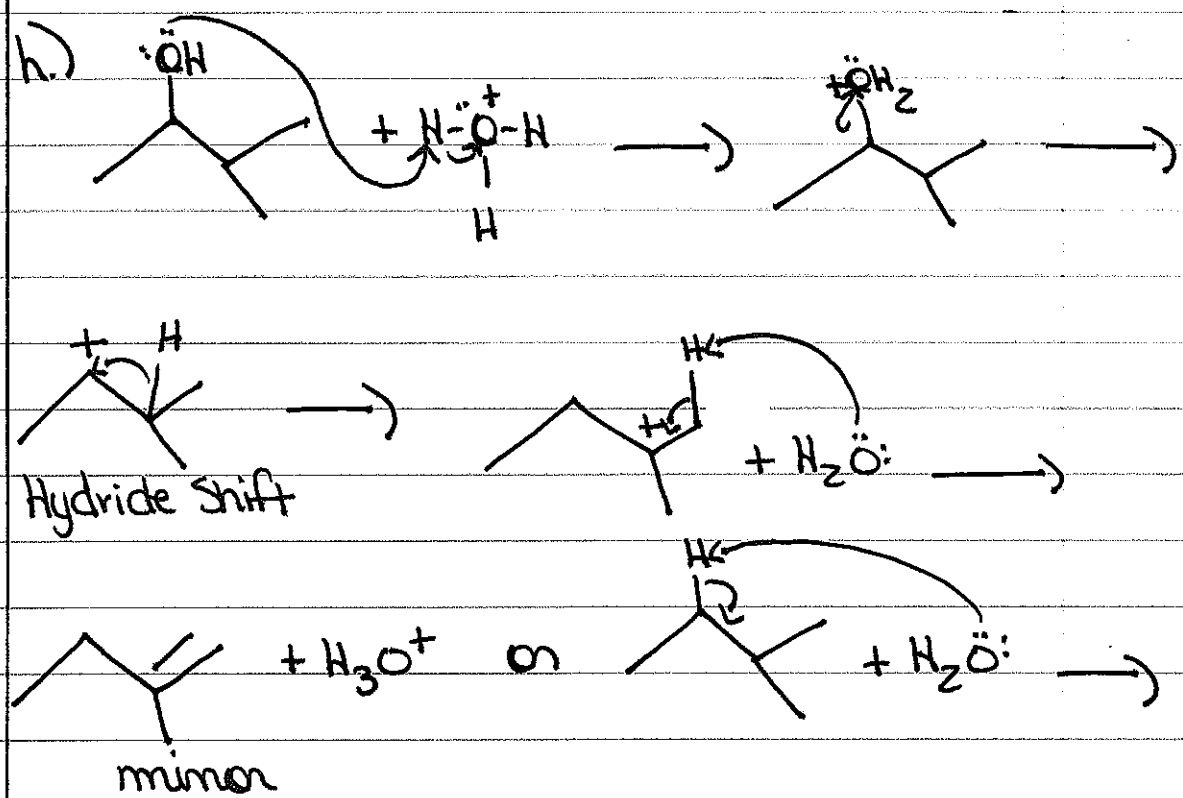
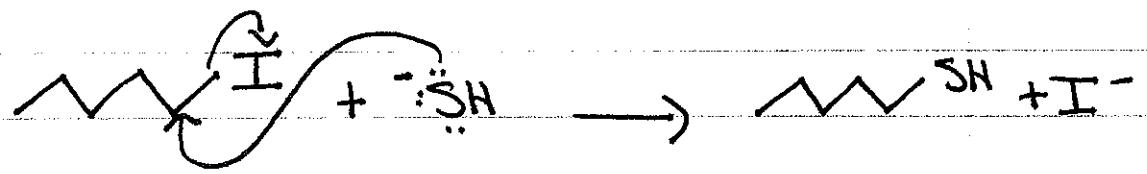
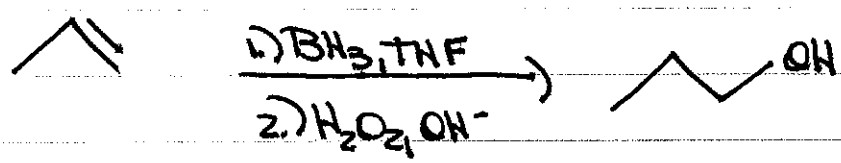
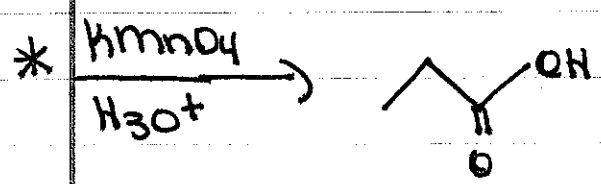


i.)



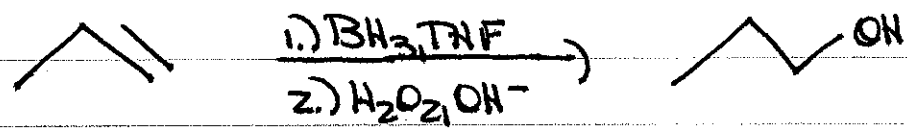
③ a.)

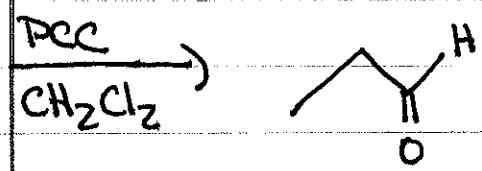




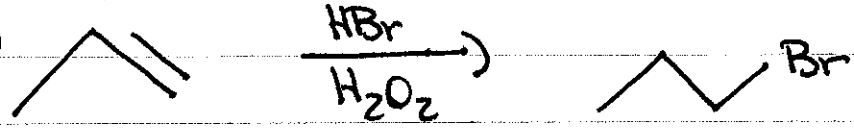
*= Could also use Cr

b.)

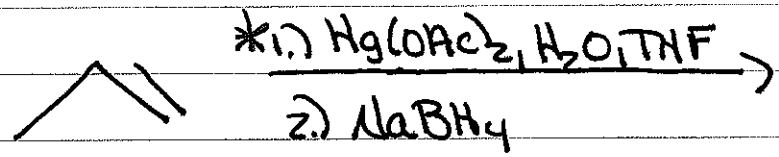


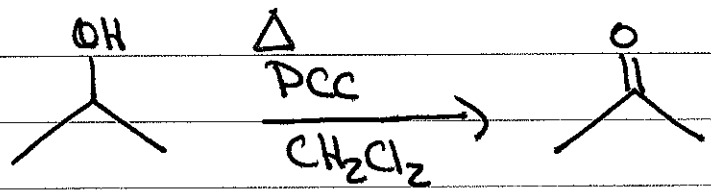


c.)



d.)





* = H_3O^+/H_2O could also have been used here

Δ = $KMnO_4$ + Cr could also have been used here

e.)