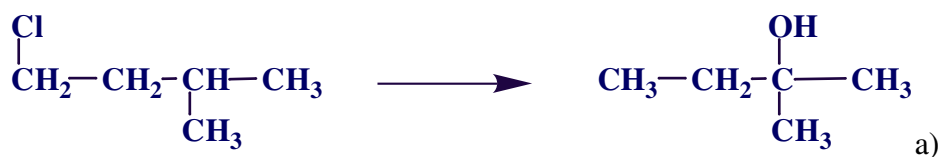


Exercices (Hydrocarbures insaturés)

1. Montrez comment il est possible de faire les transformations suivantes :



b)



c)



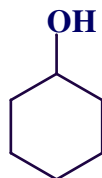
d)

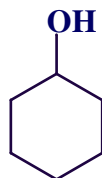


e)



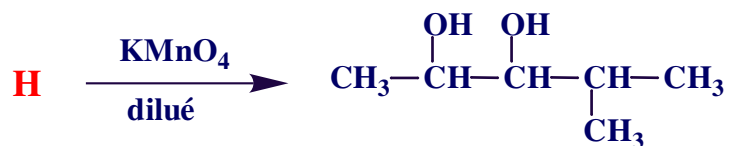
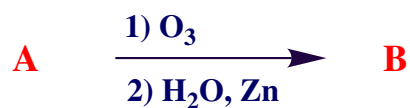
f)



2. Préparer avec le meilleur rendement possible du  à partir du buta-1,3-diène et de l'éthanol (seules substances organiques permises).

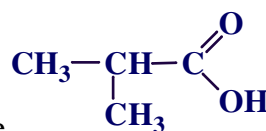
3. Préparer avec le meilleur rendement possible du $\text{HOOC}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{COOH}$ à partir du buta-1,3-diène et de l'éthylène (seules substances organiques permises).

4. Remplacez les lettres par les formules semi-développées.



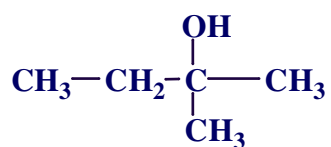
5. Préparer avec le meilleur rendement possible du pent-2-ène à partir propan-1-ol (seule substance organique permise).

6. Préparer avec le meilleur rendement possible substances suivantes (seules substances organiques permises) : $\text{CH}\equiv\text{CH}$ et du propène.

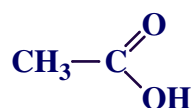
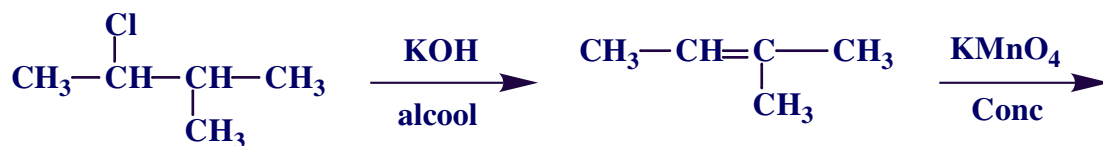


Solutionnaire

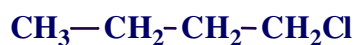
1. a)



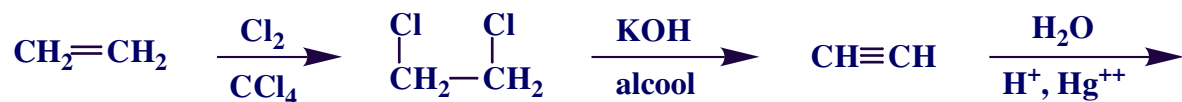
b)



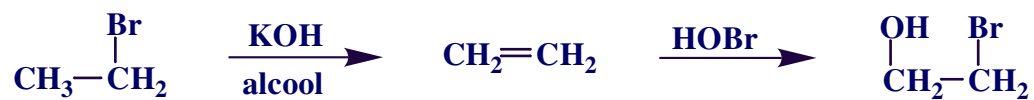
c)



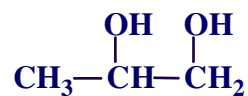
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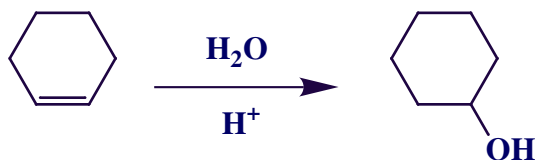
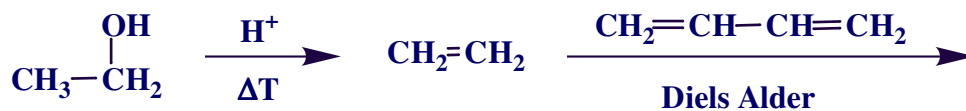
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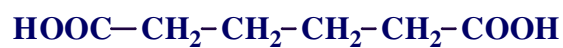
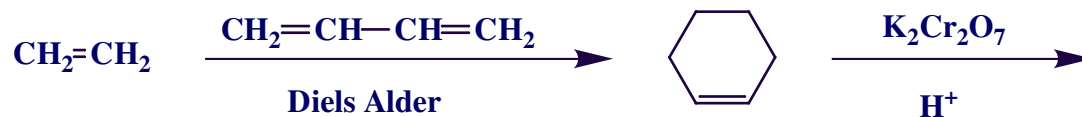
f)



2.



3.



4.

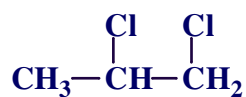
A



B



C



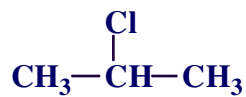
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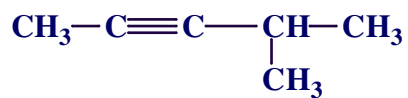
E



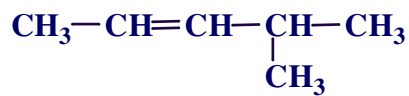
F



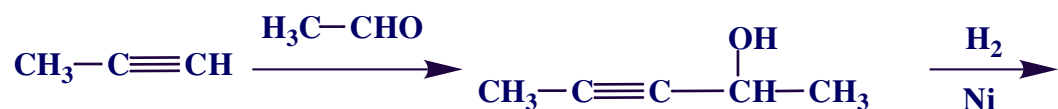
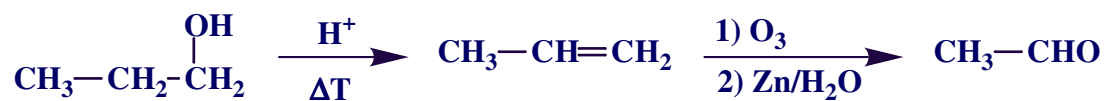
G



H



5.



6.

