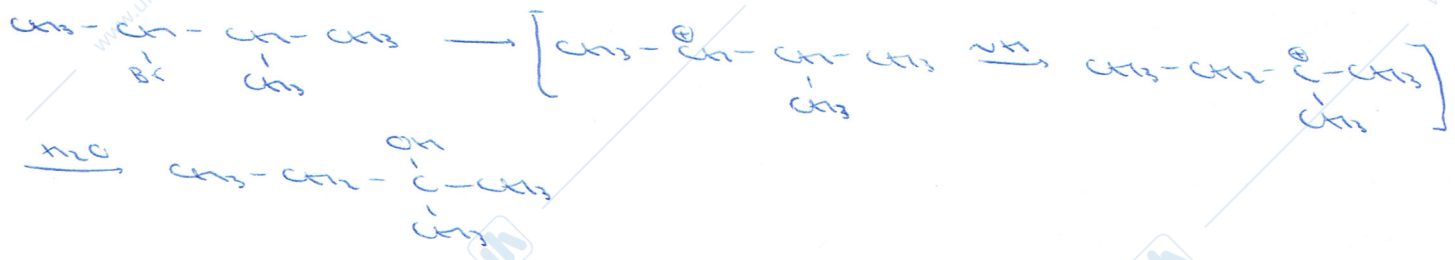
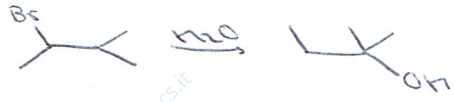


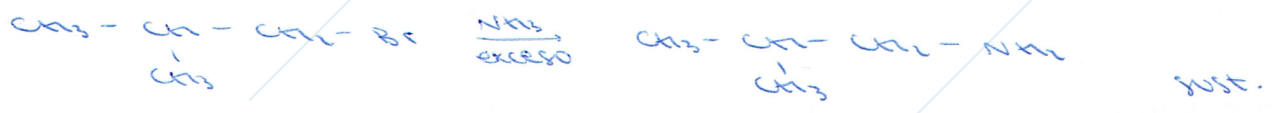


6. Mecanismo que justifique:



1. Bromo de isobutilo con

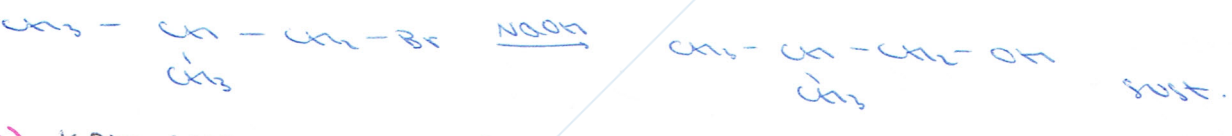
a) NH<sub>3</sub> en exceso



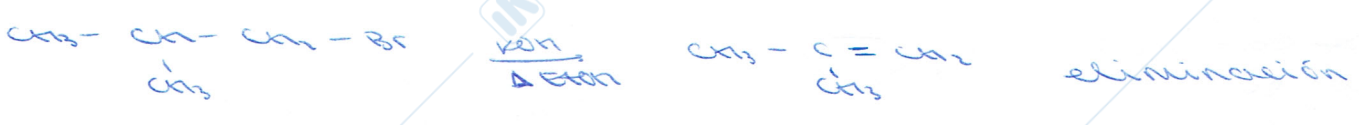
b) dimetilamina en exceso



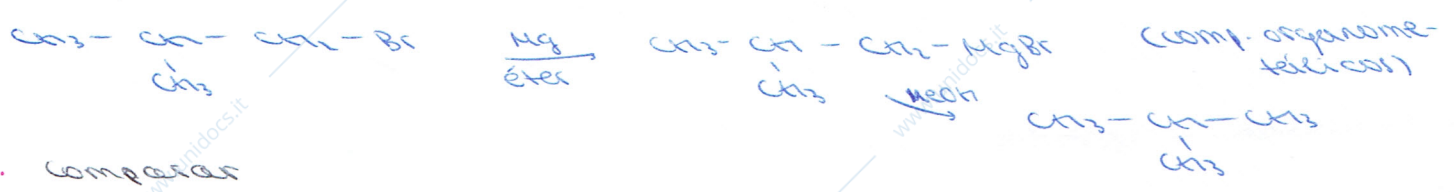
c) NaOH etilico



d) KOH CCl<sub>4</sub> en etanol caliente

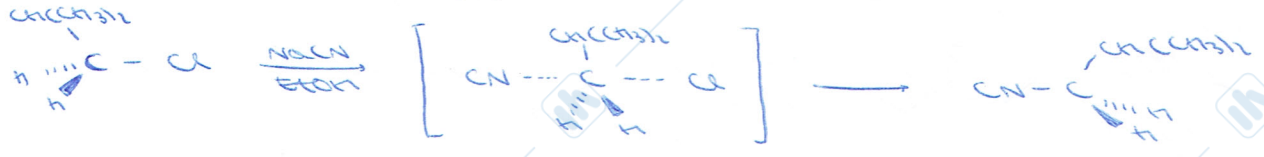


e) Mg en éter + adición metanol

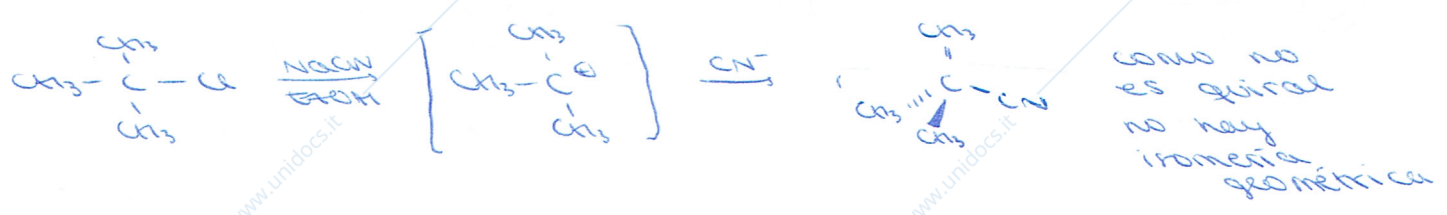


2. Competar

a) CC(C)CCl mecanismo S<sub>N</sub>2 (primario)

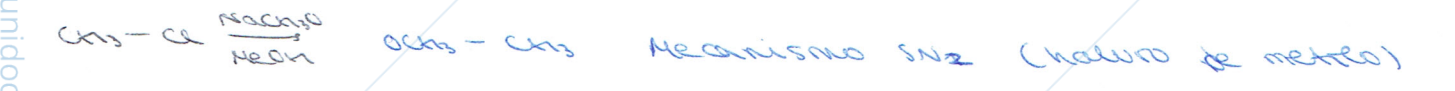
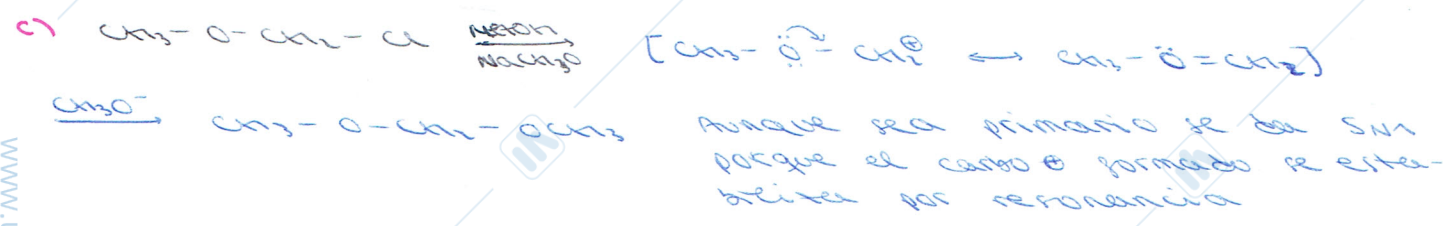
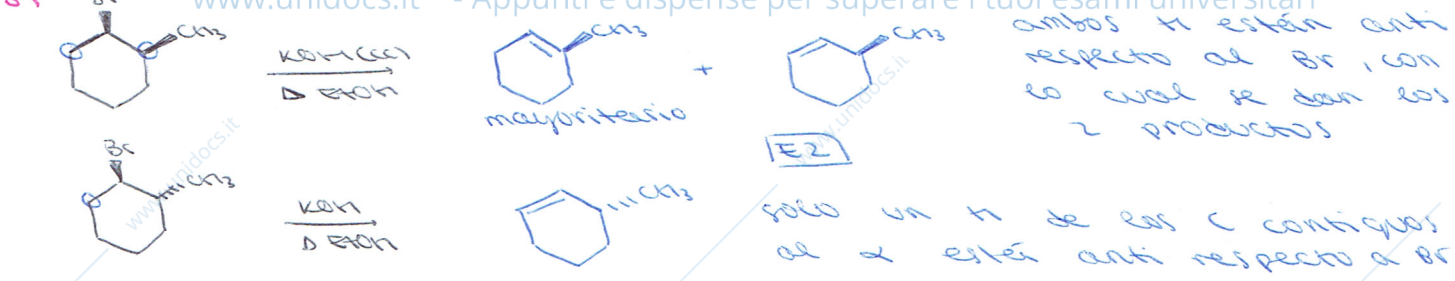


CC(C)(C)CCl mecanismo S<sub>N</sub>1 (terciario)

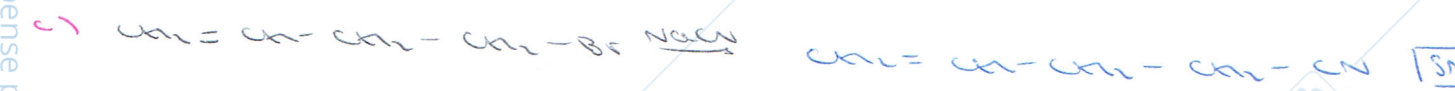
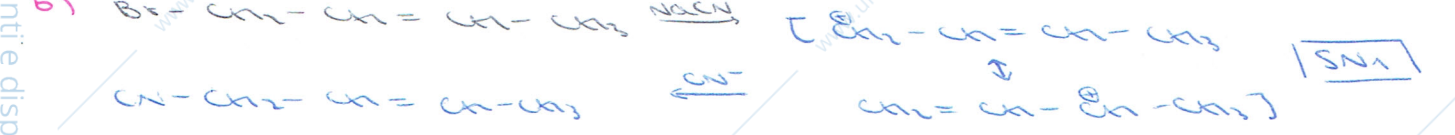
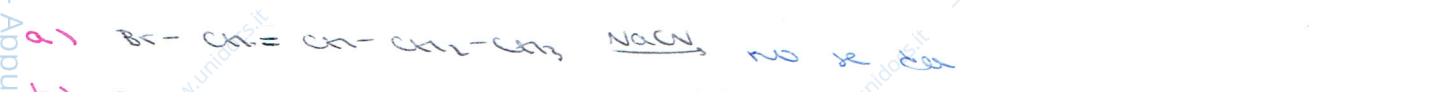


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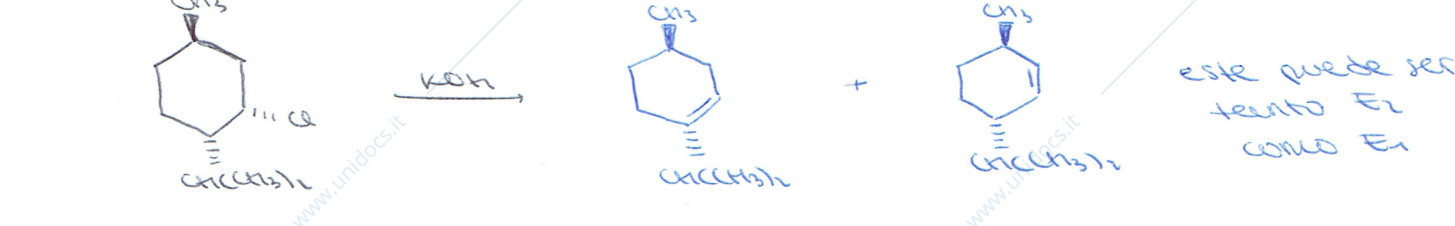
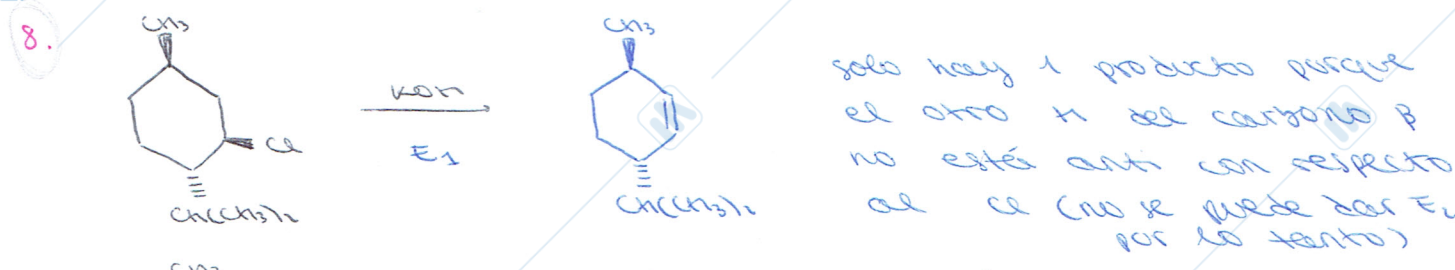
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3. Sust. nucleofila



7. Eliminación



9.

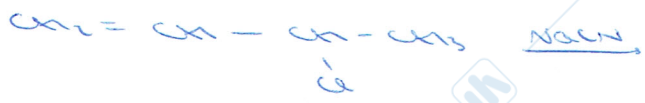


A, B, C y D  
isómeros tienen N

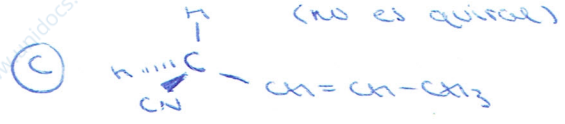
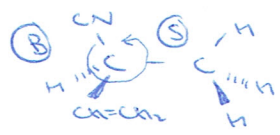
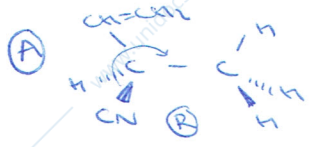
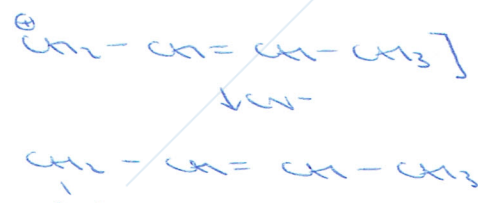
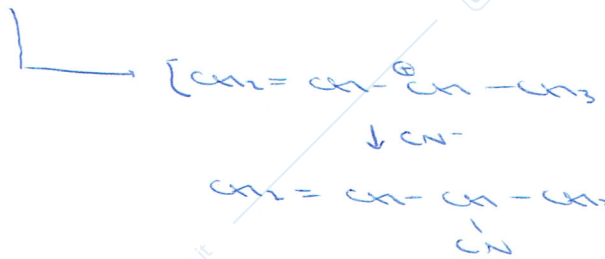
no tiene N (es conjugado)

A, B, C → sustitución

D → eliminación



se da por SN1 porque el carbonio formado es alílico



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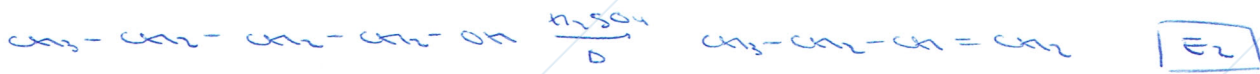
# Ejercicios tema 10

1. Productos de 1-butanol con

a)  $PBr_3$



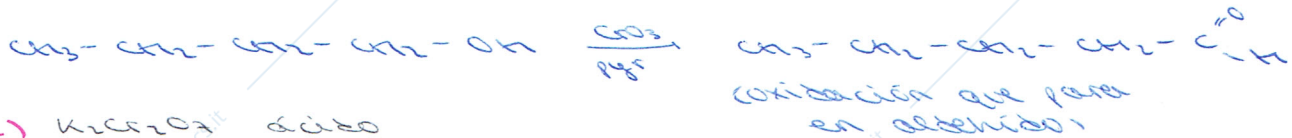
b)  $H_2SO_4 / \Delta$



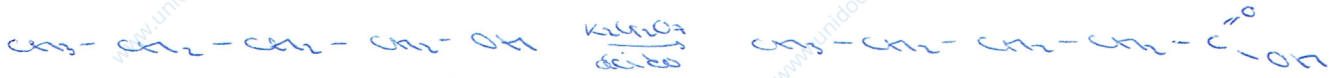
c)  $K$



d)  $CrO_3, Py$



e)  $K_2Cr_2O_7$  ácido

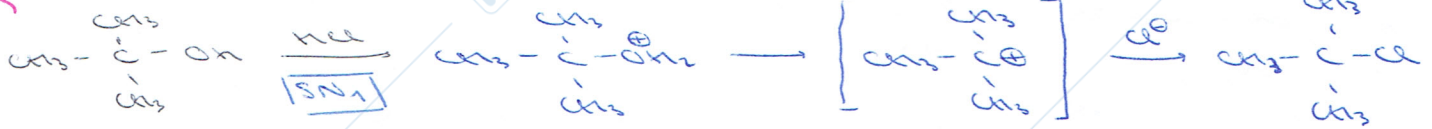


f)  $\text{C}_6H_5COCl$



2. Reacción con  $HCl$

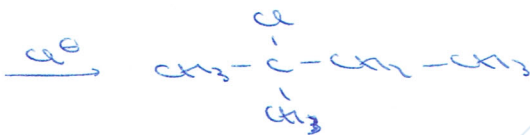
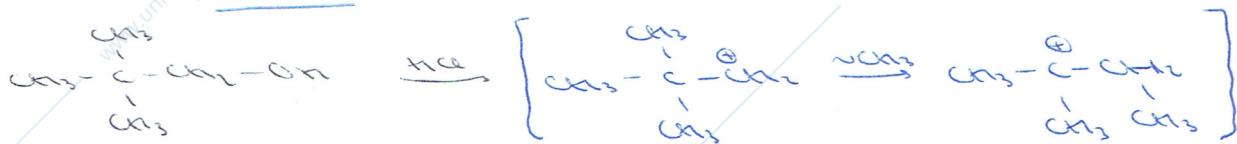
a)



b)

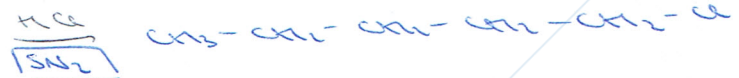


c)

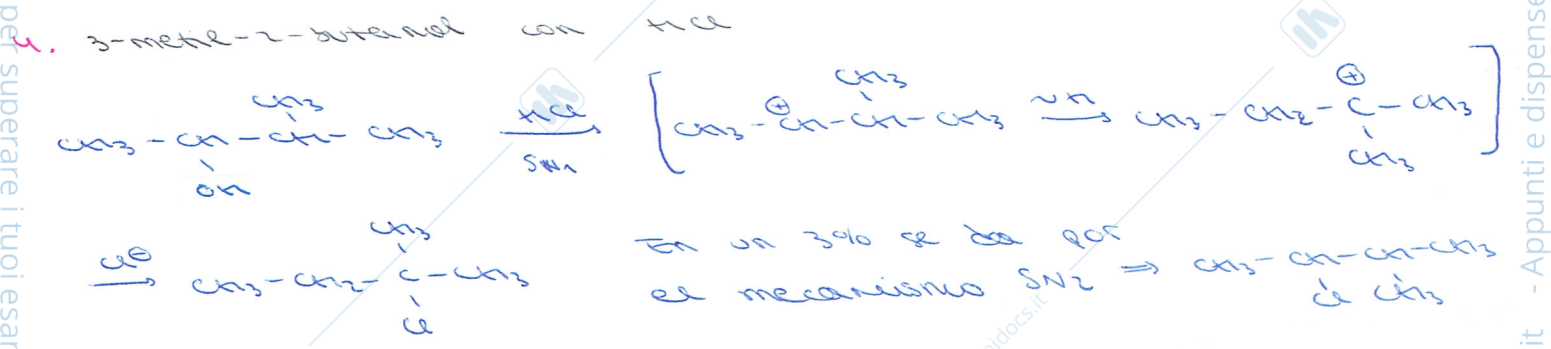
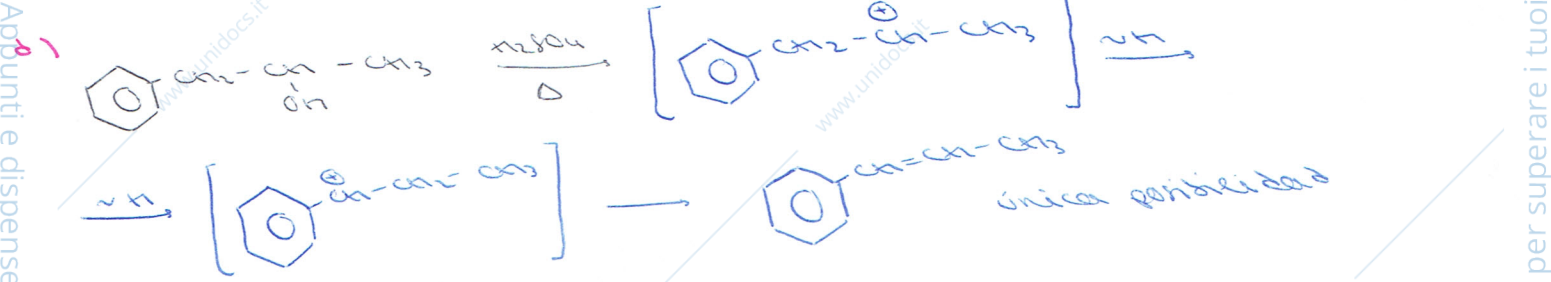
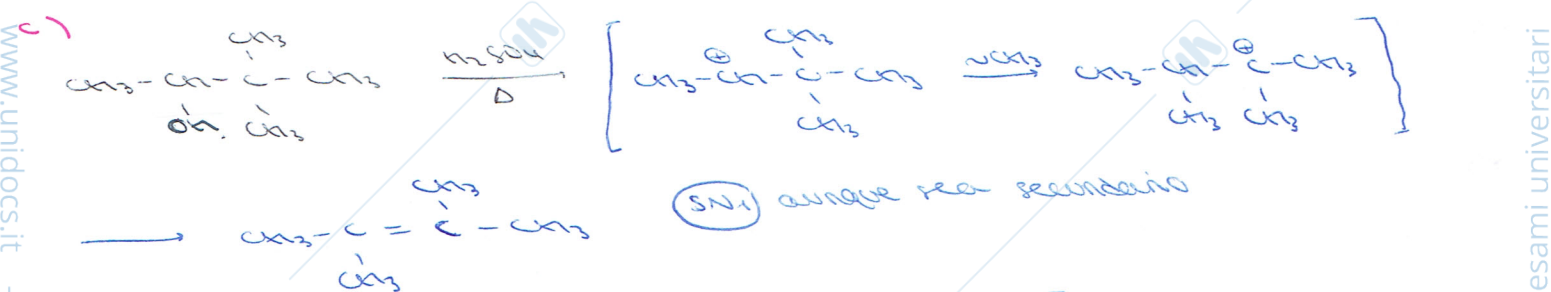
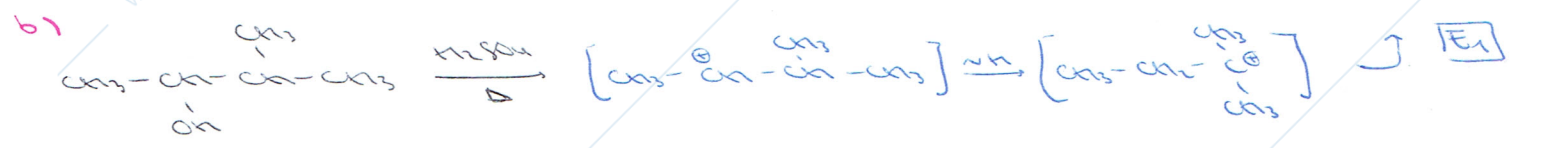
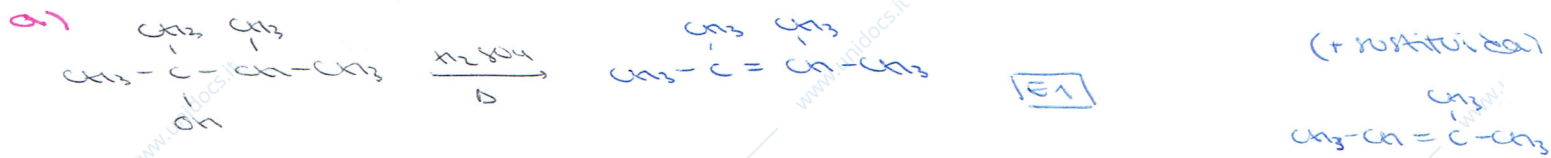


(primero iría la protonación)

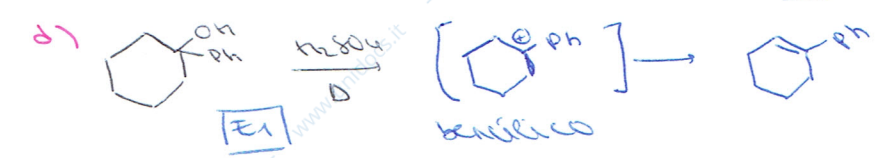
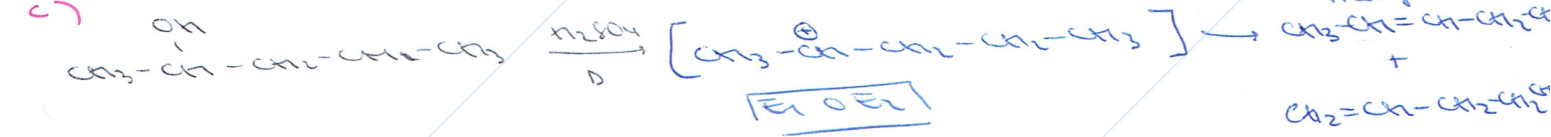
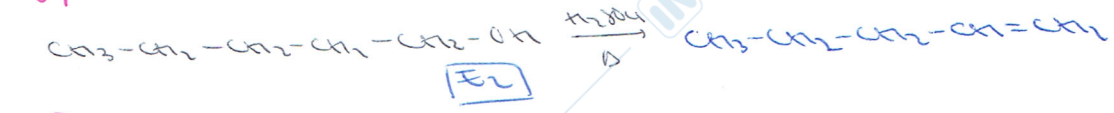
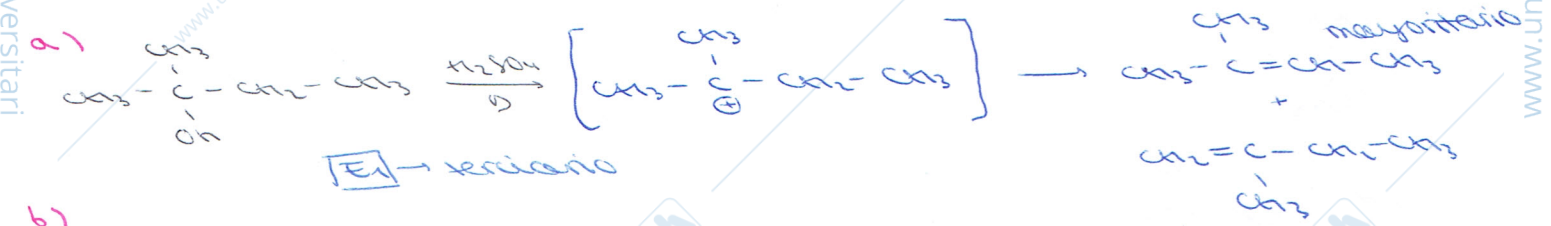
d)  $CH_3-CH_2-CH_2-CH_2-CH_2OH$

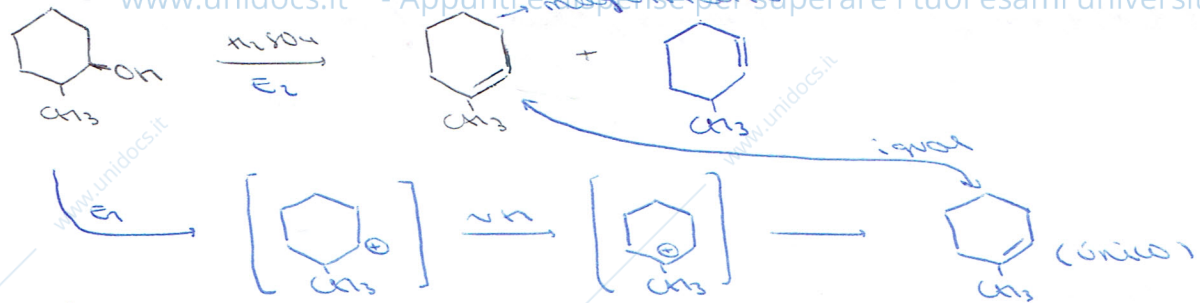


3. Desidratación

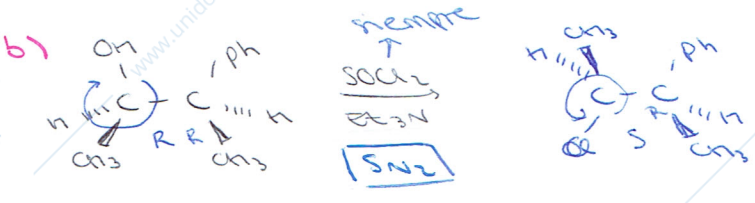
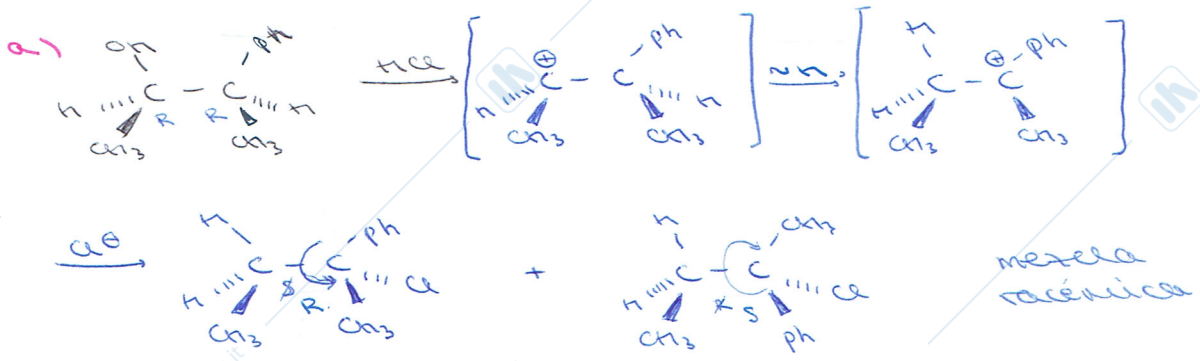


5. Desidratación en medio ácido

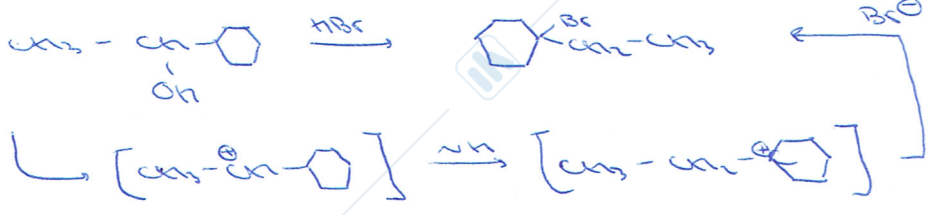




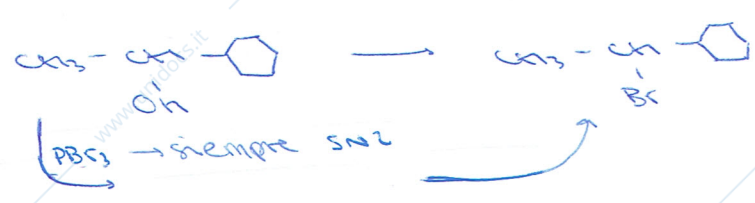
b. meccanismo



7. 1-ciclohexanol + HBr  $\rightarrow$  1-etilciclohexano + bromo

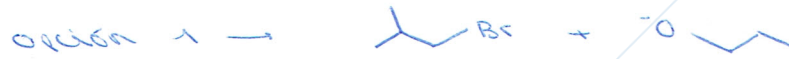
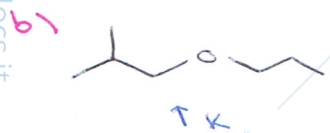
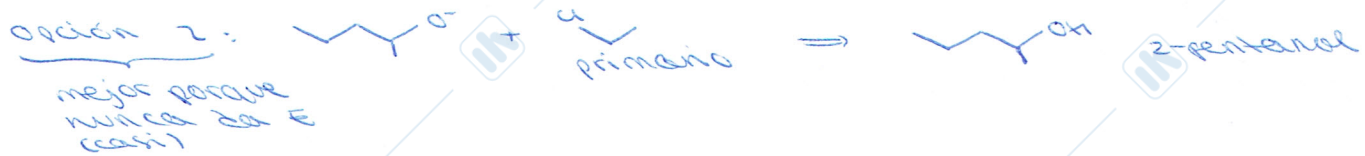
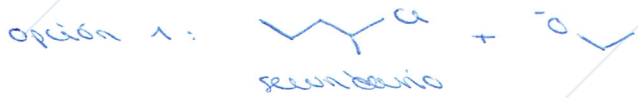


b) 1-ciclohexil-etanol  $\rightarrow$  1-bromo-1-ciclohexil-etano

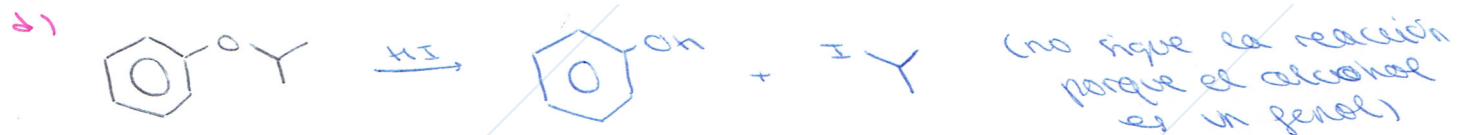
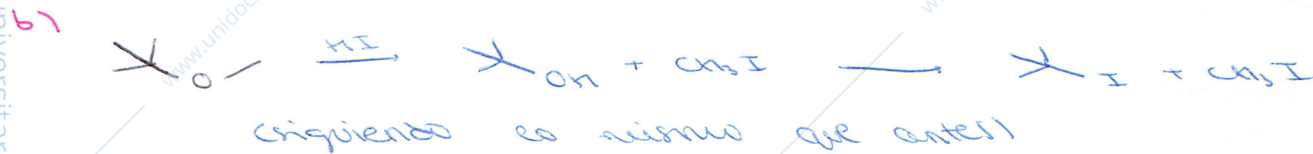
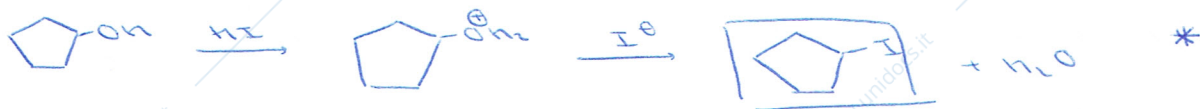
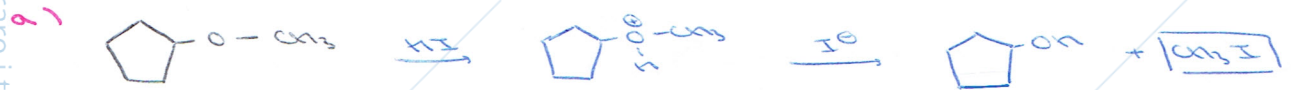


# ejercicios tema 11

1. Alcohol más adecuado para síntesis de Williamson



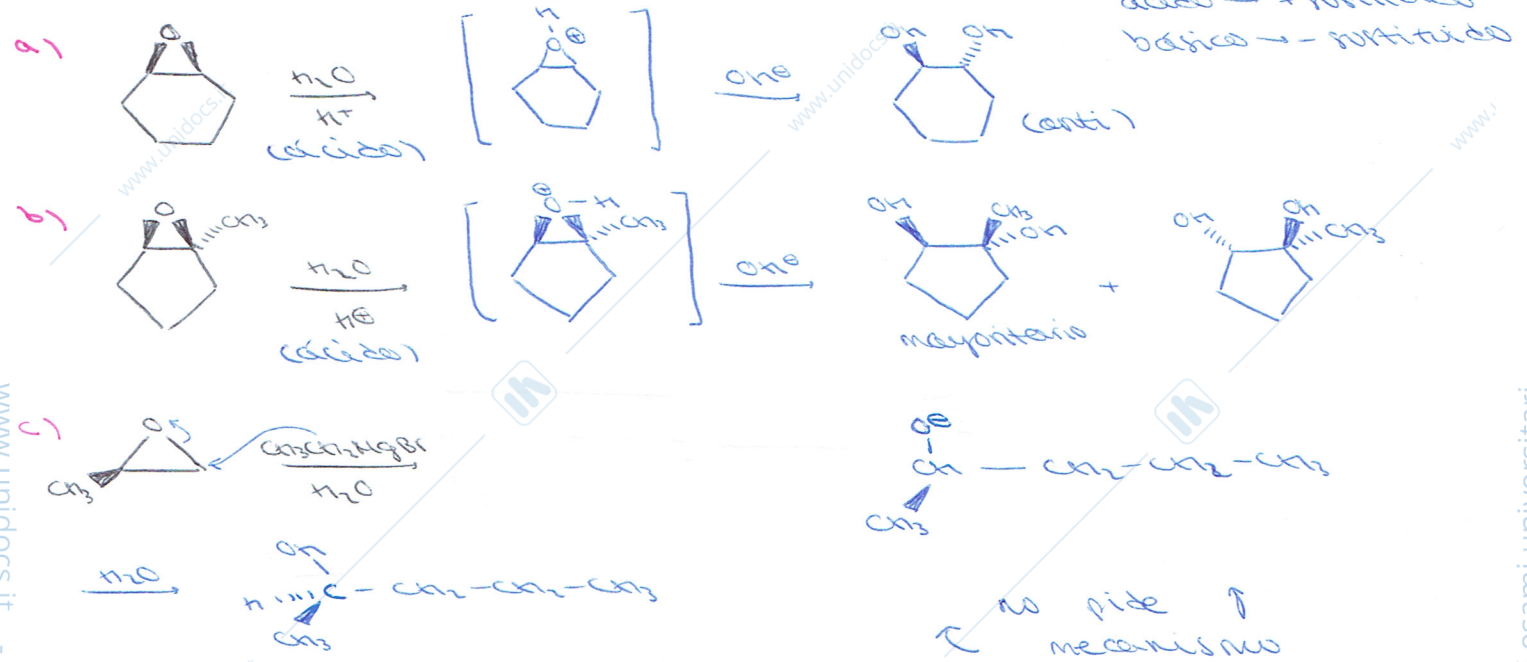
2. Tratamiento con (un mol) de HI en exceso



\* puede seguir otro camino

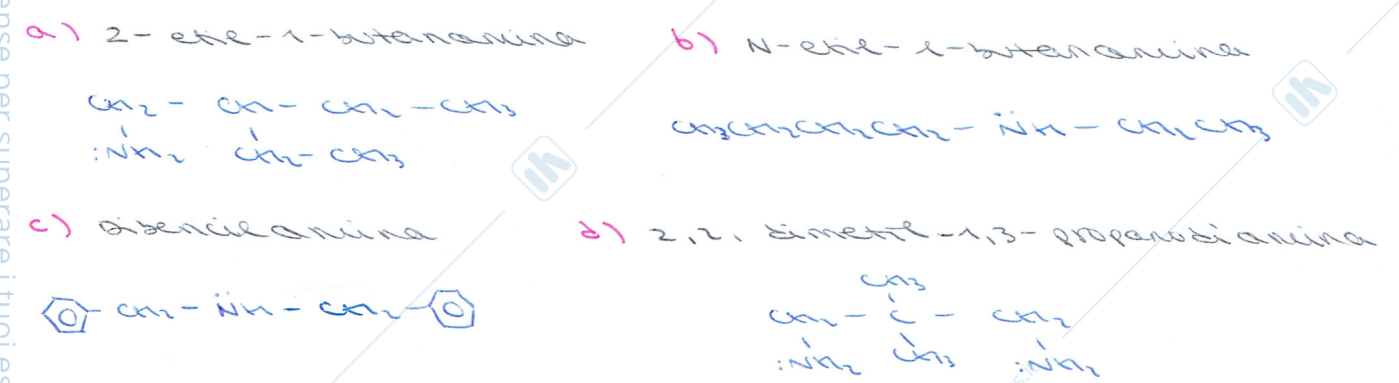


3. Completar

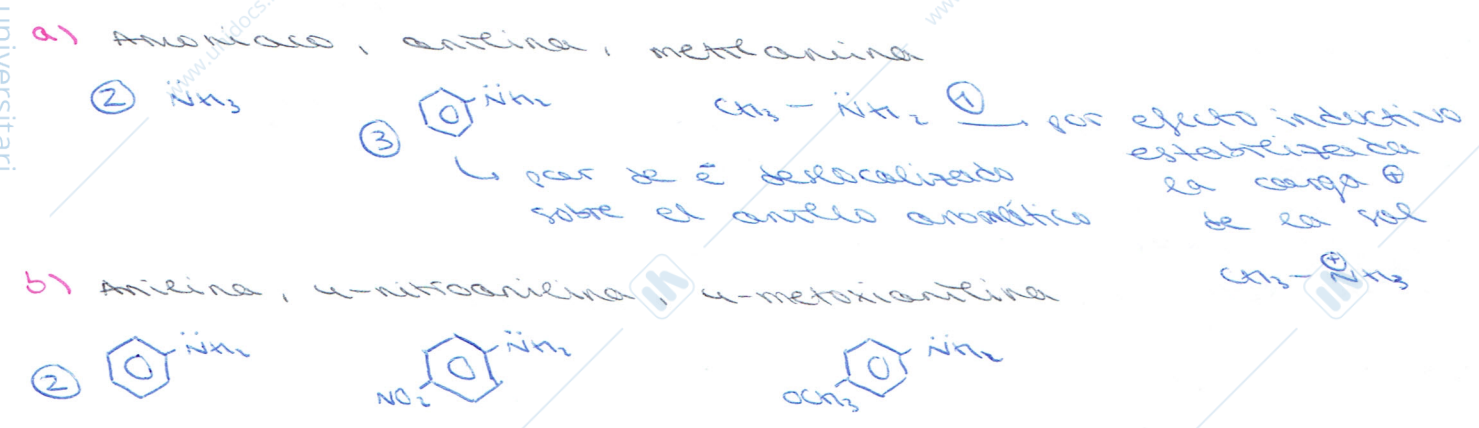


# ejercicios tema 12

1. Formulas



2. Orden creciente de basicidad



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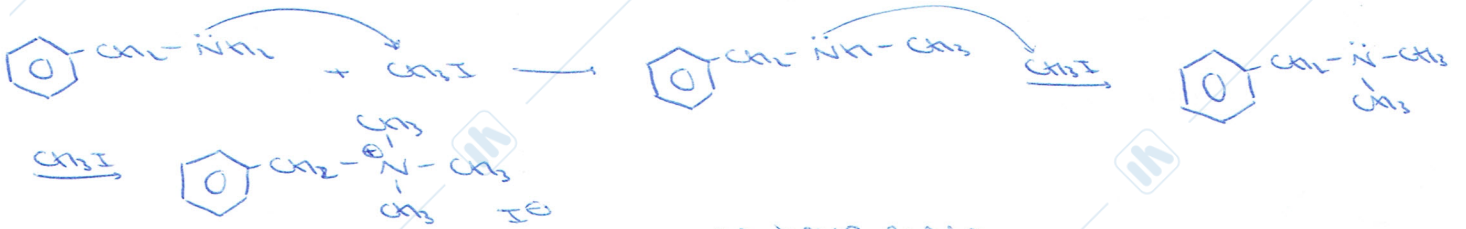
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3. Benilamina con:

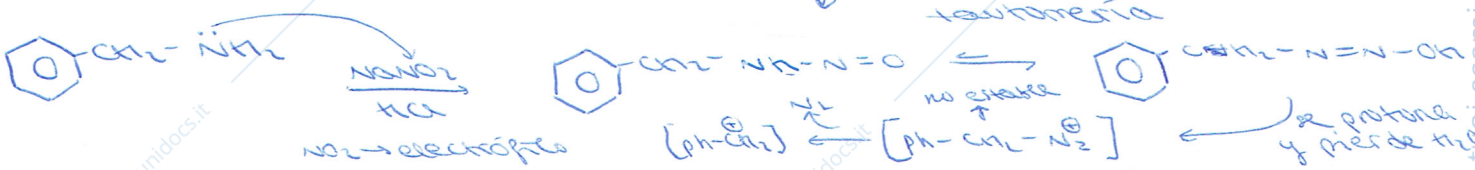
a) Cloruro de acetilo



b)  $\text{CH}_3\text{I}$  en exceso

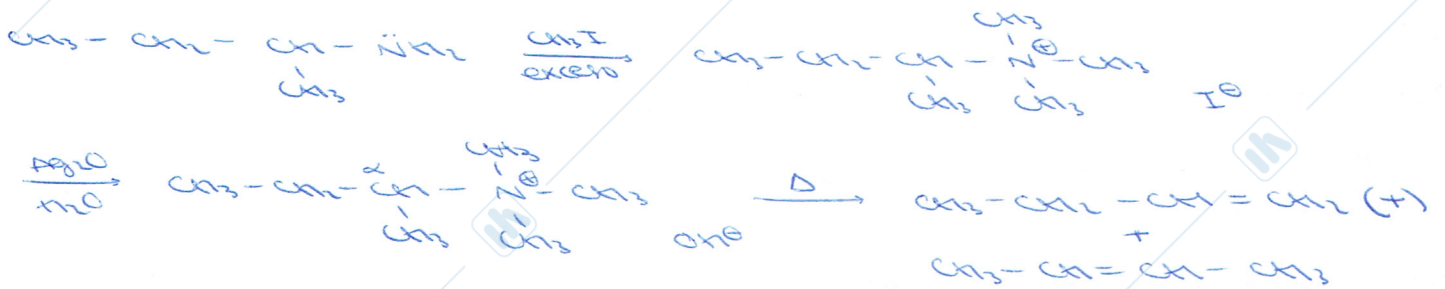


c)  $\text{NaNO}_2$  en HCl diluido

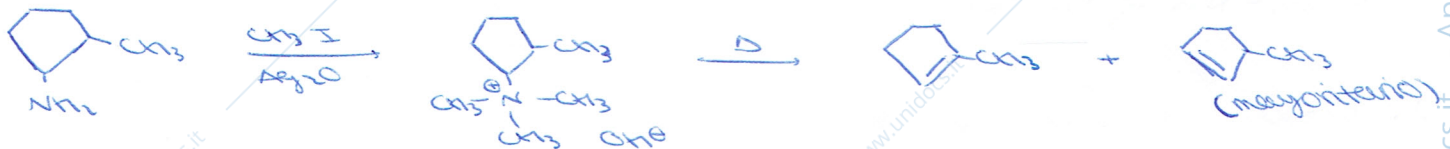


4. Eliminación de Hofmann ( $\text{CH}_3\text{I}$  en exceso,  $\Delta$ )

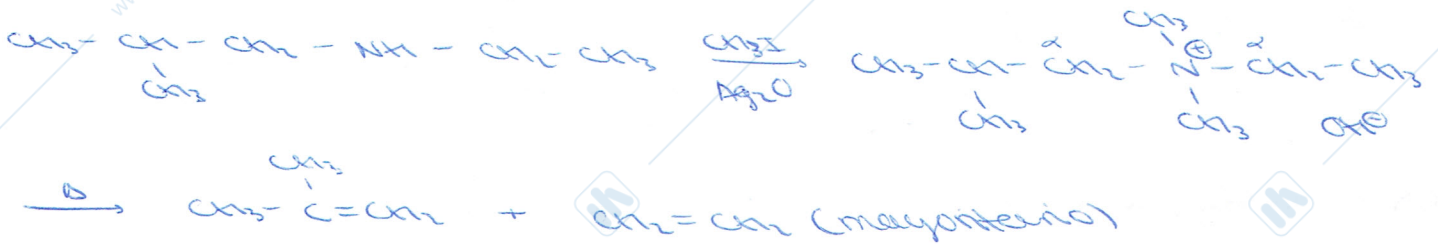
a) sec-butilamina



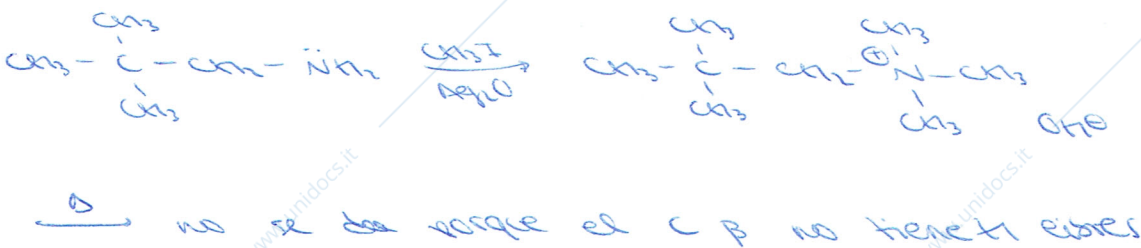
b) 2-metilciclopentilamina



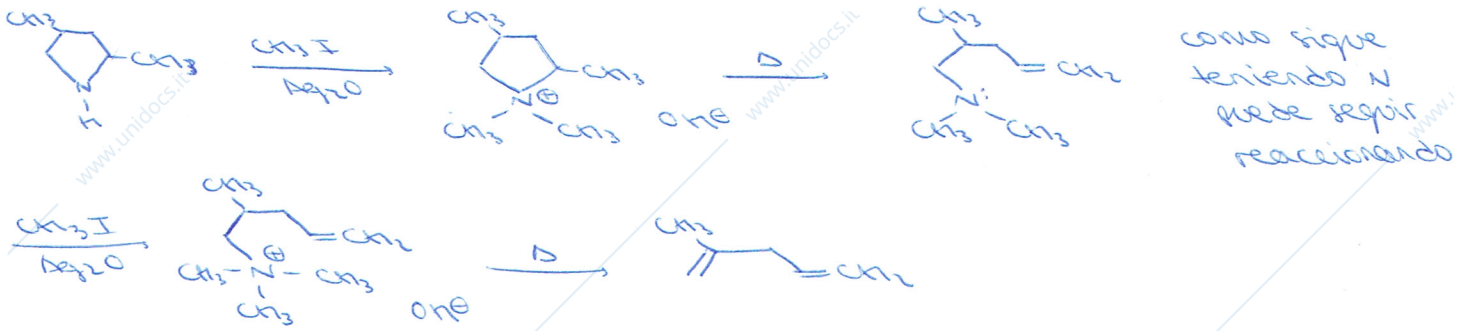
c) N-etilisobutilamina



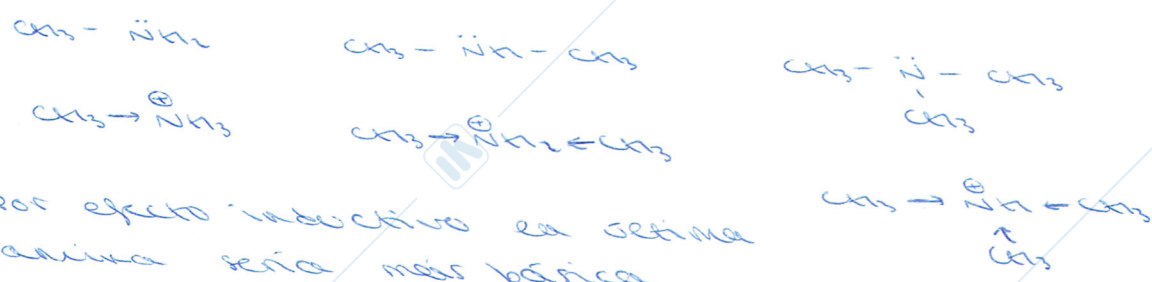
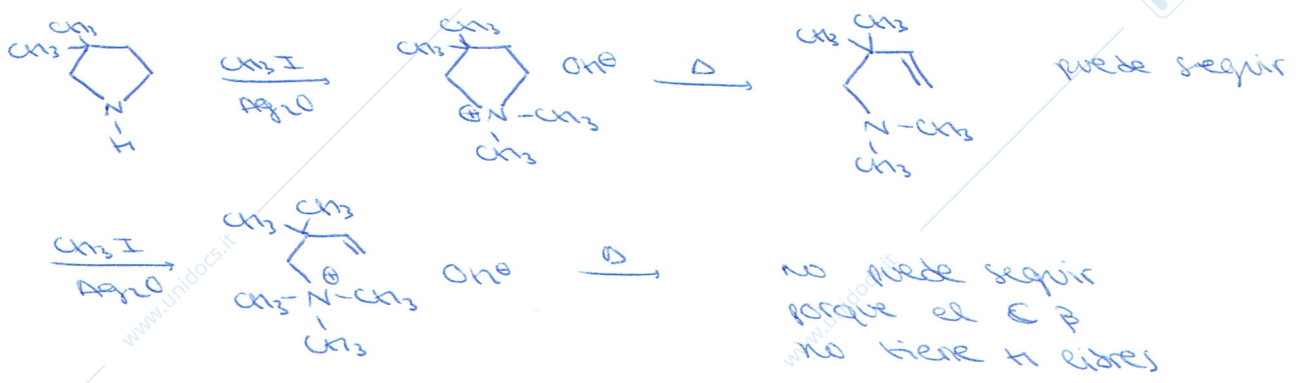
e) Neo pentilamina



8) 2,4-dimetilpirrolidina



9) 3,3-dimetilpirrolidina



- por efecto inductivo la setima amina seria más básica
- solvatación → CH3-NH2 más fácil por tener menos impedimentos, entonces es más básica

conclusión → basicidad de aminas semejante (por efectos contrarios que se compensan)

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