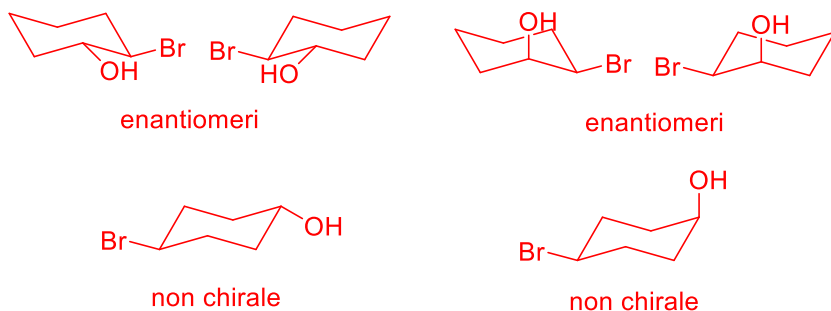
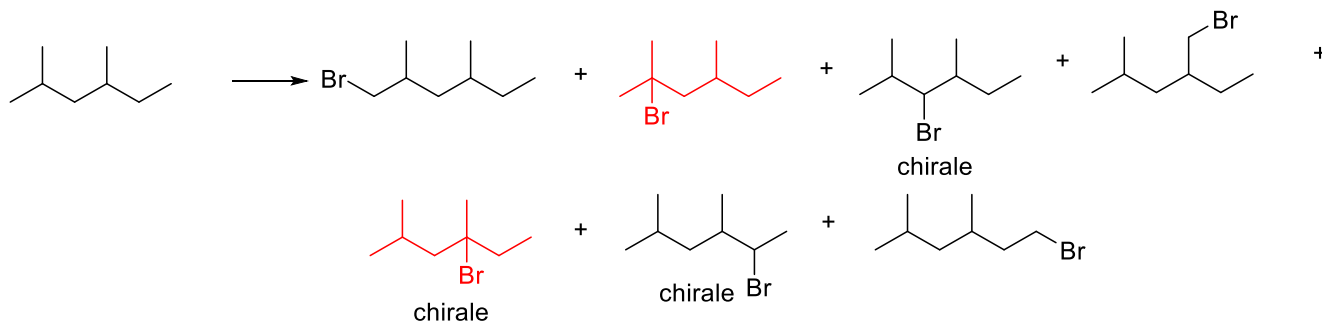


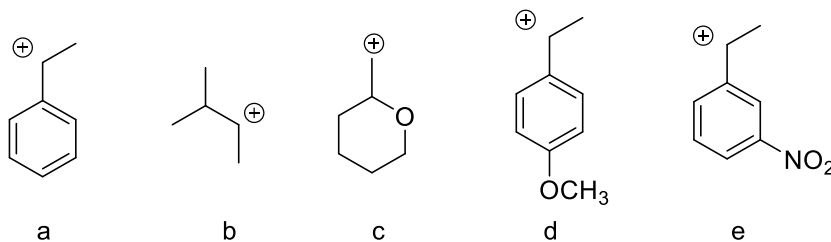
1) Scrivere le formule di struttura di tutti gli stereoisomeri del 1-bromo-2-cicloesano e 1-bromo-4-cicloesano indicando le coppie di enantiomeri e gli eventuali composti achirali.



2) Scrivere tutti i prodotti di monobromurazione del 2,4-dimetilpentano e indicare i due prodotti principali e quelli chirali.

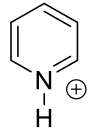


3) Ordinare in ordine di stabilità crescente i seguenti carbocationi. Nel caso del composto d scrivere tutte le forme di risonanza possibili.

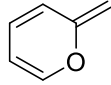


$c < b < e < a < d$

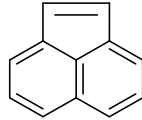
4) Indicare quale dei seguenti composti è aromatico, non aromatico o antiaromatico.



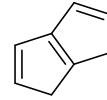
si



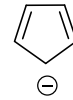
no



anti

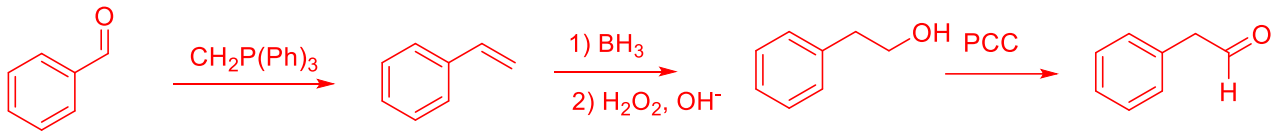
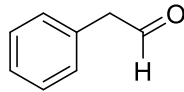


no

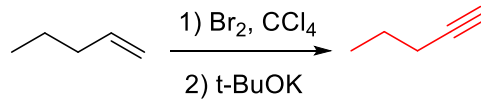
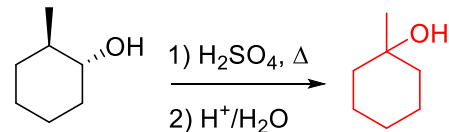
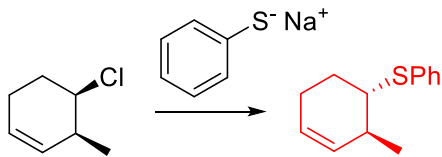
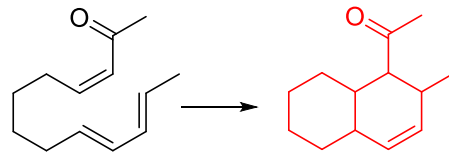
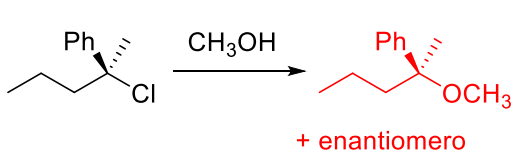


si

5) Proporre una via sintetica per preparare il seguente composto a partire dalla benzaldeide:



6) Completare le seguenti reazioni facendo attenzione alla stereochimica quando rilevante



7) Proporre una sintesi del *m*-bromofenolo a partire dal benzene

