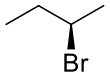
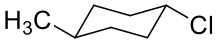
6. ALOGENURI ALCHILICI

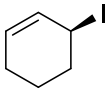
1) Assegna i nomi ai seguenti composti assegnando anche la stereochimica.



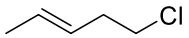
(*R*)-2-Bromobutano



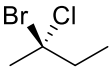
trans-1-Cloro-4-metilcicloesano



(*S*)-3-Iodocicloesene



5-Cloro-2-pentene

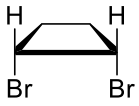


(*R*)-2-Bromo-2-clorobutano

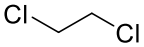
2) Disegna una formula di struttura per i seguenti composti:

a) Cis-1,2-dibromociclobutene b) 1,2-Dicloroetano c) (*R*)-2-Cloropentano

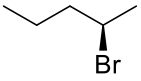
d) Cloruro di vinile e) (*S*)-4-Fluoro-1-pentino f) 1-Cloro-1-metilcicloesano



a

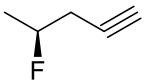


b

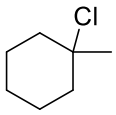


c

d

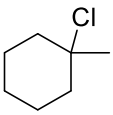


e

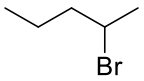


g

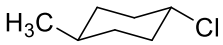
3) Classificare come 1°, 2° e 3° i seguenti alogenuri alchilici:



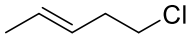
3°



2°



2°



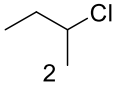
1°

3°

4) Disporre in ordine di reattività crescente nei confronti della reazione di S_N2:

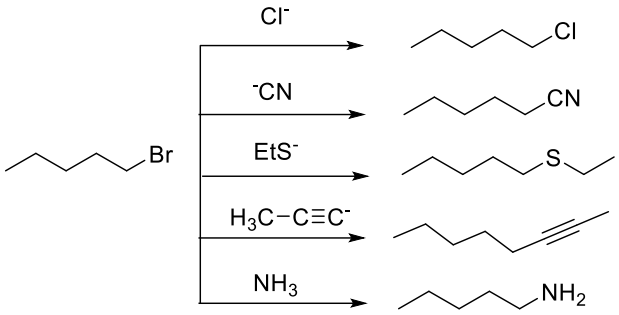
1

3

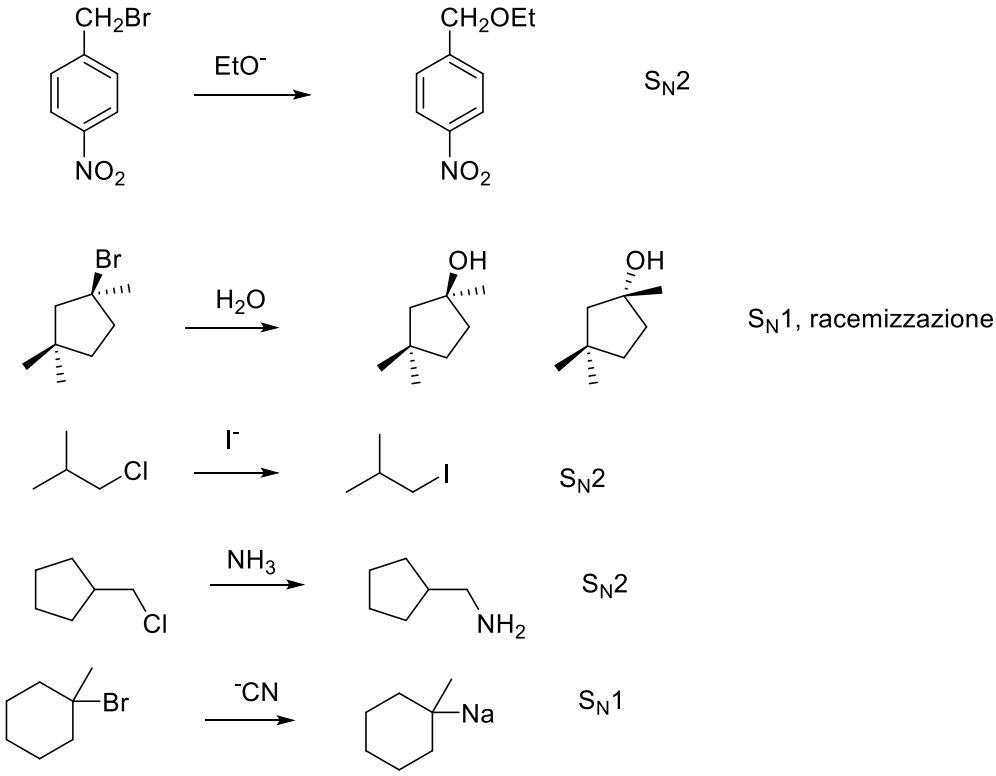


2

5) Scriver i prodotti delle seguenti reazioni



6) Completare le reazioni indicando il meccanismo con cui avvengono (S_N1 o S_N2)



7) Dire se le seguenti reazioni avvengono con meccanismo S_N1 o S_N2