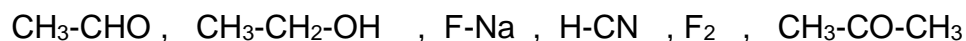


Tutorial N°4

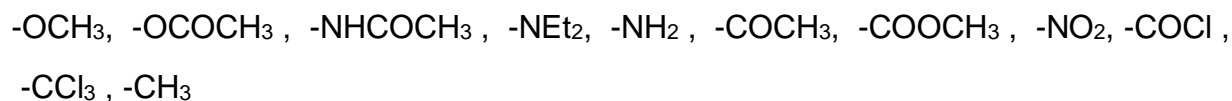
Exercise 1 :

Show the bonds polarization in the following molecules :



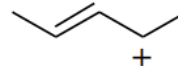
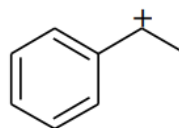
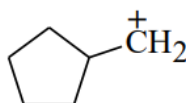
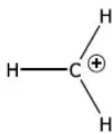
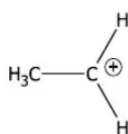
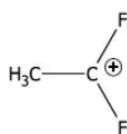
Exercise 2 :

Classify the following groups according to their electronic effects :



Exercise 3 :

Rearrange the following carbocations in decreasing order of stability:



Exercise 4 :

Give the resonance structures of the following molecules:

