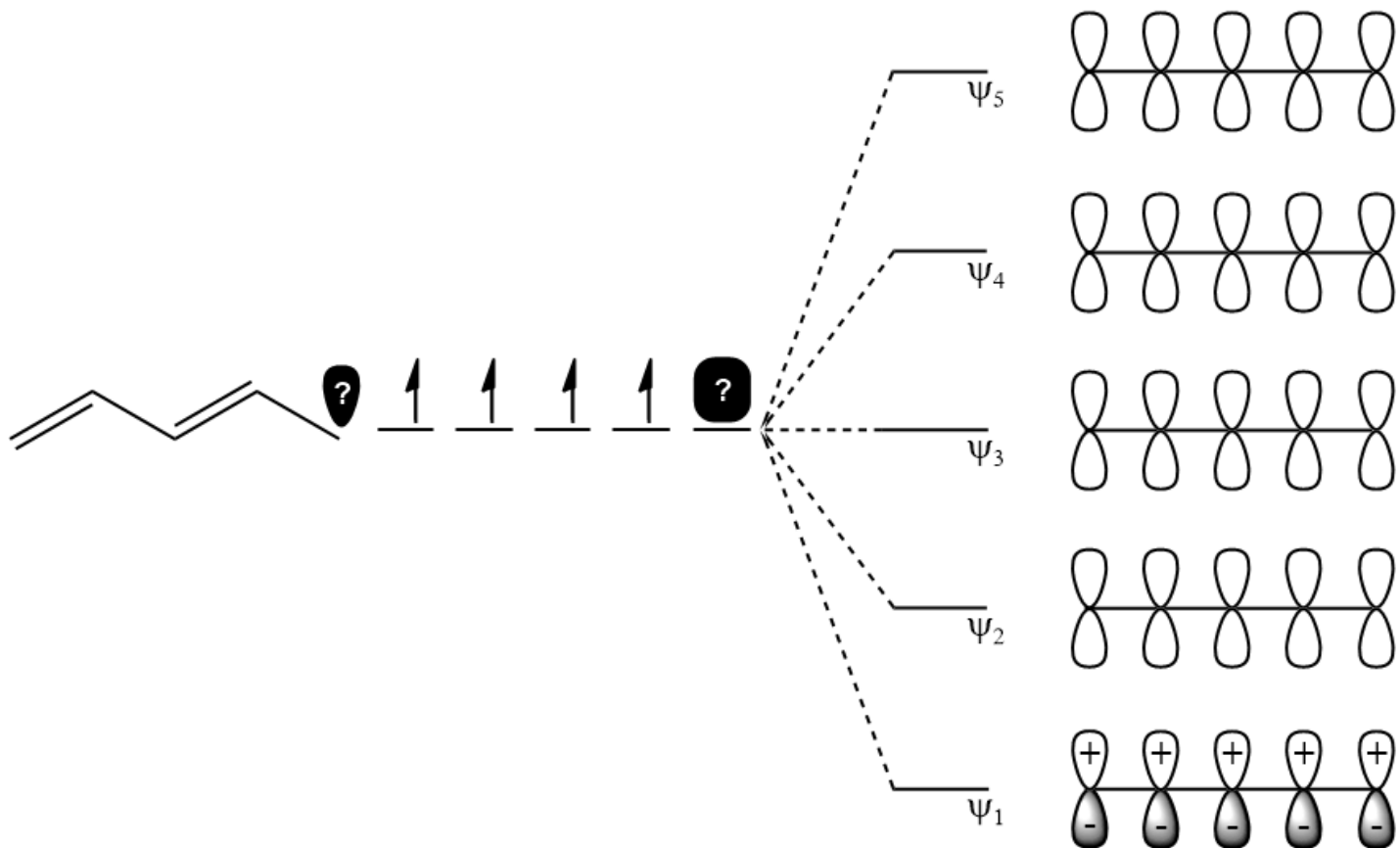


CONCEPT: ORBITAL DIAGRAMS: 5-ATOM ALLYLIC IONS

- Like propenyl ions, 5-atom allylic systems have the ability to *resonate*, reacting in multiple locations.
 - Regardless to the identity of the ion, this reactivity can be explained through allylic molecular orbitals.

EXAMPLE: Predict the LCAO Model of 5-carbon allylic system. Identify bonding, non-bonding and antibonding orbitals.



PRACTICE: Predict the molecular orbitals and identify the HOMO and LUMO orbitals of the following cation.

