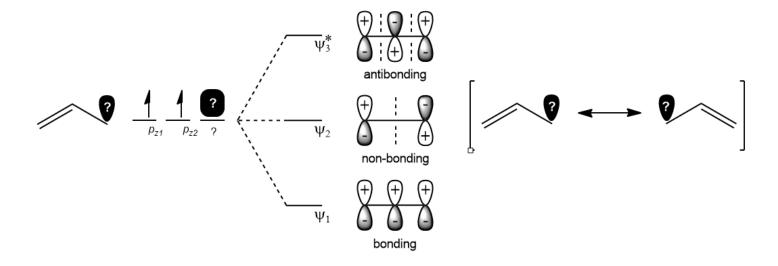
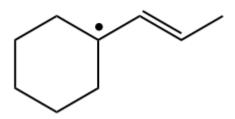
CONCEPT: ORBITAL DIAGRAMS: 3-ATOM ALLYLIC IONS

- Allyl positions are famous for their unique ability to resonate, reacting in multiple locations.
 - □ Regardless to the identity of the ion, this reactivity can be explained through allylic molecular orbitals.

EXAMPLE: Simplified LCAO Model of Propenyl lons



EXAMPLE: Use both resonance theory and MO theory to predict the reactive sites of the following radical.



PRACTICE: Predict the molecular orbitals and identify the HOMO and LUMO orbitals of 1-propenyl cation (allyl cation).

