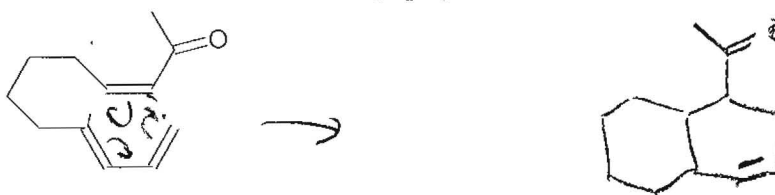


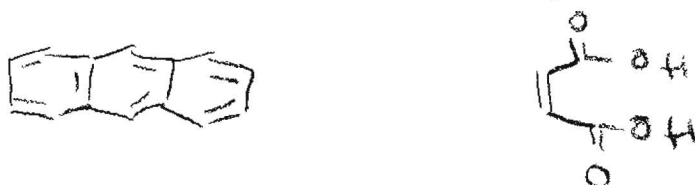
1. Diels-Alder additions normally are reversible. Suggest the diene and dienophile you will obtain if you heat the following compound! (5 pts)



2. Diels-Alder additions can happen intramolecularly (within the same molecule). Circle the parts of the molecule below, which can act as diene and dienophile and show the product resulting from intramolecular Diels-Alder addition! Obviously, this product will have the same sum formula. (4 pts)



3. Show structural formulas for a) anthracene, b) maleic acid (2 pts)



4. Circle all that are UNABLE to serve as dienes in Diels-Alder reactions. (4 pts)

