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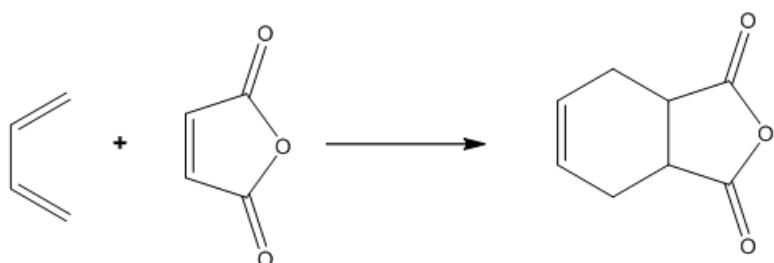
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(a) Using atomic p-orbitals sketch the four molecular orbitals of a diene and the two molecular orbitals of an alkene. Clearly show the proper phase relationships by using your pencil to partially shade the orbitals.

(b) Circle the one molecular orbital of the diene and the one molecular orbital of the dienophile most involved in the following Diels-Alder reaction.



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