



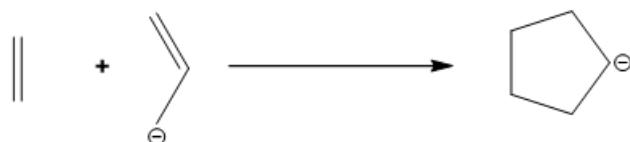
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The Diels Alder reaction is an example of a cycloaddition reaction. Another possible cycloaddition reaction is the reaction of an alkene with a allyl anion. Complete the MO energy level interaction diagram shown below and determine if the reaction is allowed or forbidden.



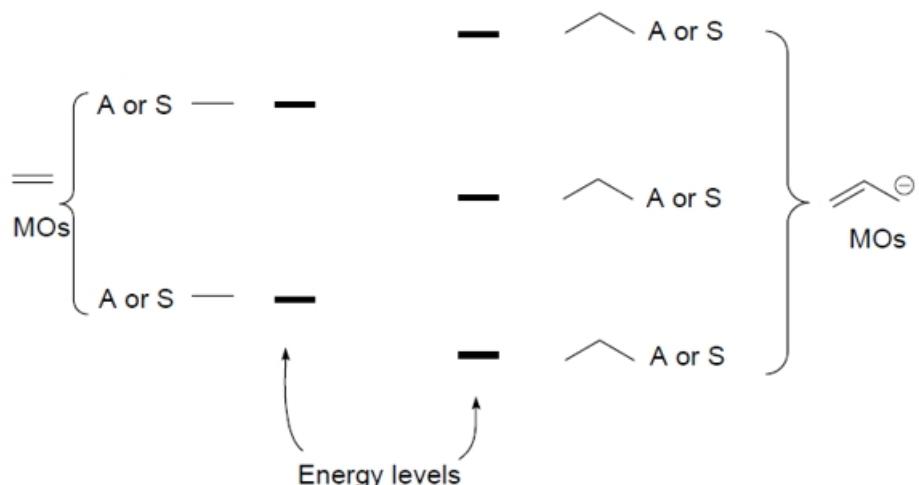
Complete the following steps:

- Draw the MOs, ethene on the left, the allyl anion on the right.

- Indicate which levels are occupied with electrons.

- Label each MO as symmetric or antisymmetric by circling (S) or (A) for each MO.

- Indicate if the reaction is allowed or forbidden.



Check one: Allowed _____ Forbidden _____

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