



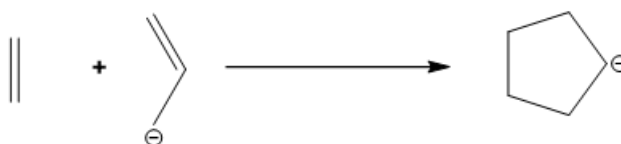
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The Diels Alder reaction is an example of a cycloaddition reaction. Another possible cycloaddition reaction is the reaction of an alkene with an allyl anion. Complete the MO energy level interaction diagram shown below and determine if the reaction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



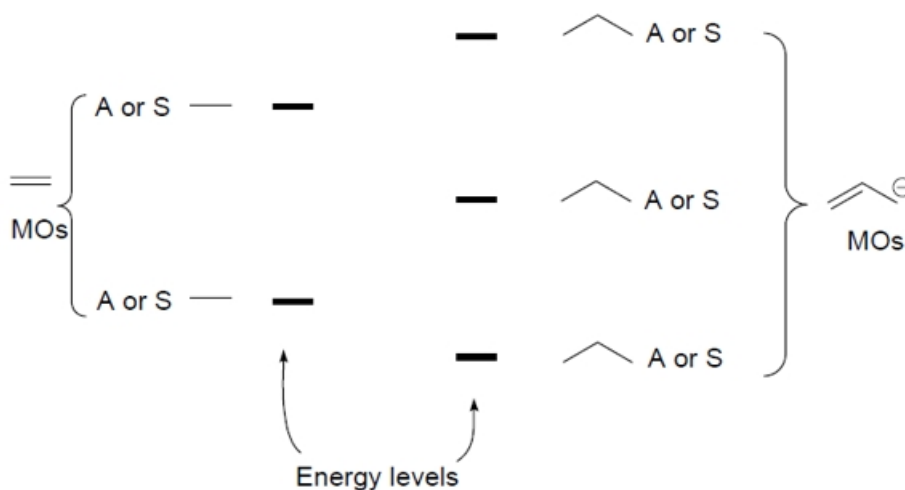
Complete the following steps:

- 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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