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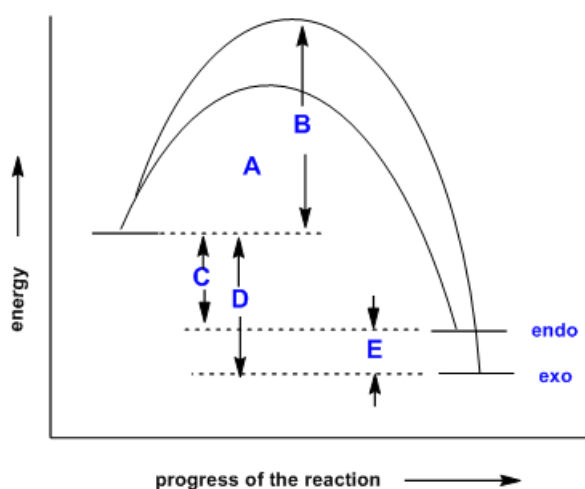
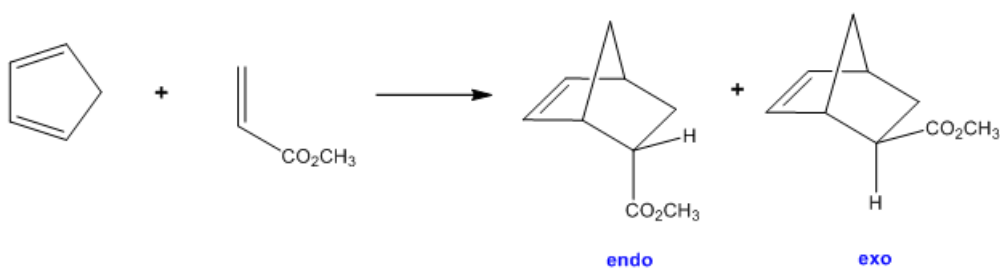
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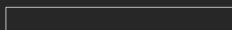
Cyclopentadiene reacts with methyl acrylate to give an endo/exo mixture of cycloadducts. Answer the following question using the diagram shown below.



- On the answer sheet circle the cycloadduct form faster (kinetics)
- On the answer sheet circle the most stable cycloadduct (thermodynamics)
- Give the letter representing energy difference that could be used to calculate the rate of formation of exo cycloadduct.

d) Give the letter representing energy difference that could be used to calculate the equilibrium constant of the reactants and the endo cycloadduct.

e) On the answer sheet circle the correct stereochemical relationship (enantiomeric or diastereomeric) between the endo and exo cycloadduct.



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