

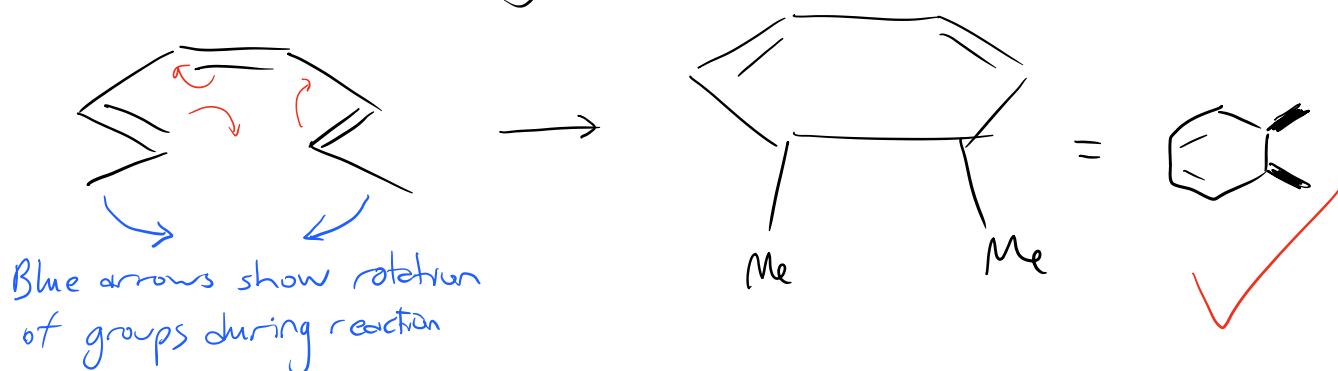
Electrocyclic ring closure

14 March 2017 13:59

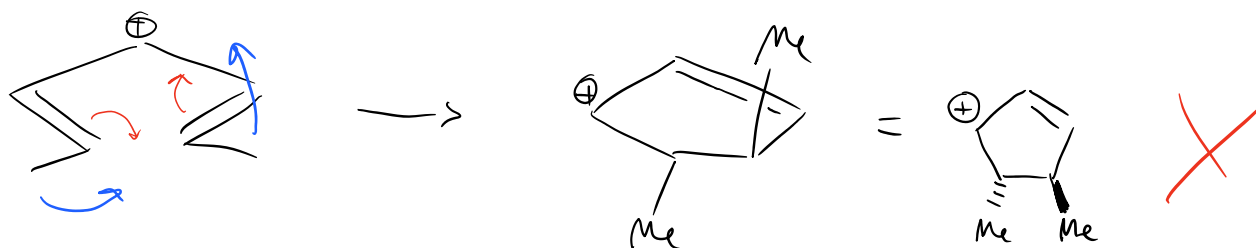
Remember that $(4n)$ electrocyclic reactions are disrotatory
 $(4n+2)$ are conrotatory

You could approach this question in several ways. Simplest is just to predict the true product for each reaction:

Option 1 - 6 π electrons \therefore disrotatory:



Option 2 - 4 π electrons (2 from each double bond, 0 from carbocation)



Option 3 - 4 π electrons:

