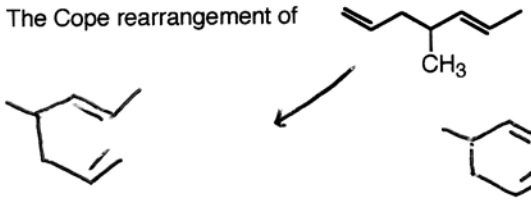
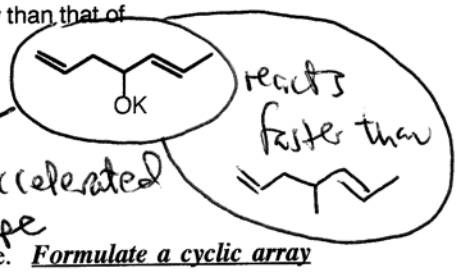
7. [5 points] The following statement is not accurate. Correct it and provide a generalized mathematical expression for the "Arrhenius function".

The Arrhenius function for a reaction is 13 - [20 / θ]. Therefore, the activation energy is 13 kcal / mol.

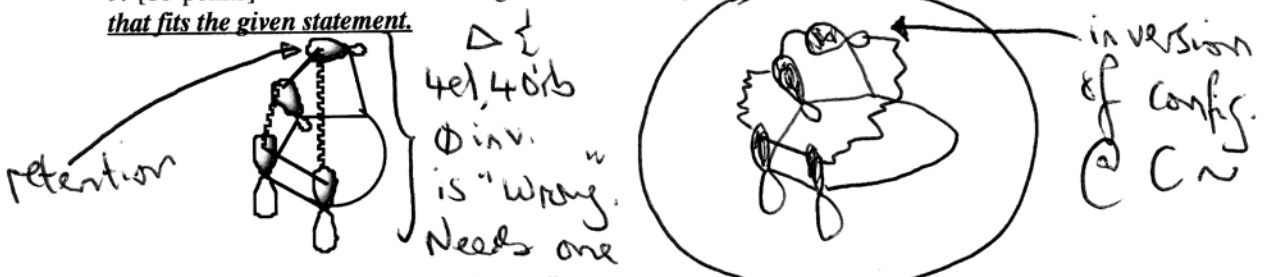
20

$\log k = \log A - \frac{E_a}{2.3RT} \Leftarrow k = Ae^{-Ea/RT}$

8. [5 points] The following statement *may or may not* be accurate. If it is, then say so. If it is not, then correct it.

The Cope rearrangement of  occurs more rapidly than that of 

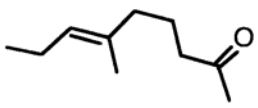
9. [10 points] The statement relating to the following diagram ~~is *not* accurate~~. ***Formulate a cyclic array that fits the given statement.***



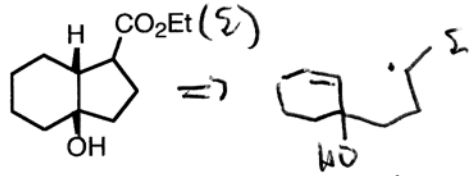
represents a cyclic array for a thermally allowed [1,3]C~

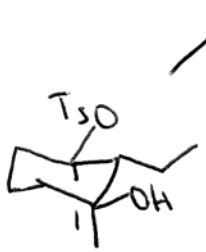
Sign inversion. This is accomodated by invoking inversion of config. @ the migrating carbon atom.

10. [10 points] Devise a synthesis of **either one** [***not both***] of the following substances by using any fragmentation process we discussed in class.



OR





stereo doesn't matter @ this carbon.

+30