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 \( \log \frac{k}{h} = \log A - \frac{E_a}{2.3RT} \). Therefore, the activation energy is \( 19 \text{ kcal/mol} \).

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 \( \text{CH}_3 \)

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.

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