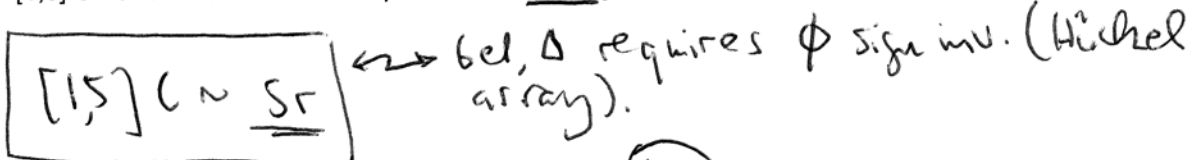


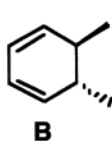
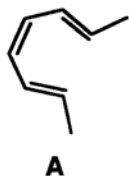
Chem 128/228
First exam of spring quarter 2003

1. [10 points] The following description *may or may not* be correct. *If it is correct*, then say so. *If it is not*, then provide a proper description for a thermally allowed sigmatropic carbon migration of order [1,5].

[1,5] C~si is an accurate description for a thermally allowed sigmatropic rearrangement.



2. [10 points] How could one perform the transformation illustrated below? Is the process an electrocyclization or a sigmatropic rearrangement? If it is the former, then is a con- or a disrotatory process portrayed? If the latter, then specify the order, [i, j].



Clearly, conrot's occurred.
'tis a six el. electrocycliz'n
 $\Rightarrow$ need to conduct photochemistry

3. [10 points] Examine the following diagram and incorrect statement. Correct the correlation diagram (it is easiest to draw a new one) to fit the given statement.

The diagram illustrated below is that for a thermally allowed 4 electron process.

