Organic 2

Amorde

Summer 09

Bonus #1

In the lab, the following cyclohexane was treated with sodium methoxide in methanol and the reaction produced at least six different products!!

A. What are the six different products?
B. How could you determine the structures for all six compounds?
    a. Give appropriate instruments to use.
    b. Show in detail the differences you would expect in each spectrum.
    c. If you can find it, give the spectrum for each product, if not draw what you expect the spectrum would look like.
    d. Finally, what would the starting material look like?