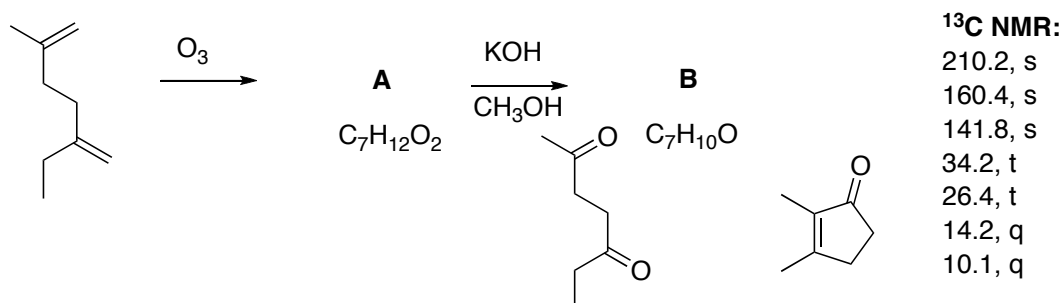
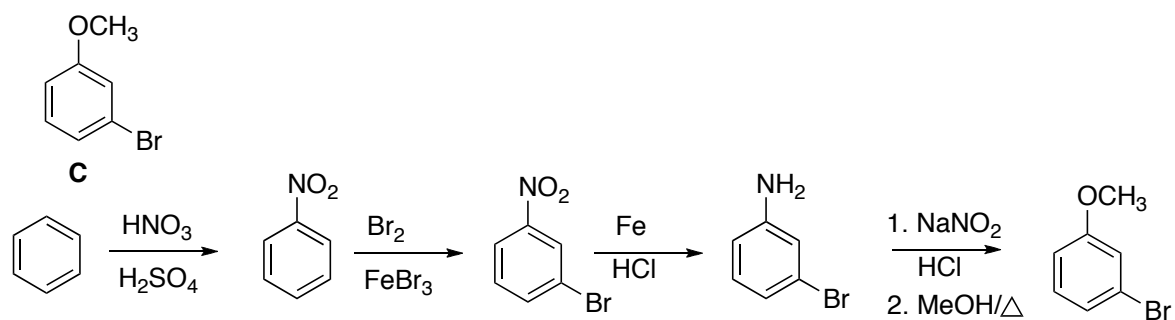


1. (10 points) Write the structures of **A** and **B**.



2. (10 points) Outline a synthesis of **C** starting from benzene.



3. (10 points) Draw an arrow-pushing mechanism for the conversion of **D** to **E**.

