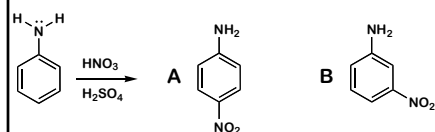
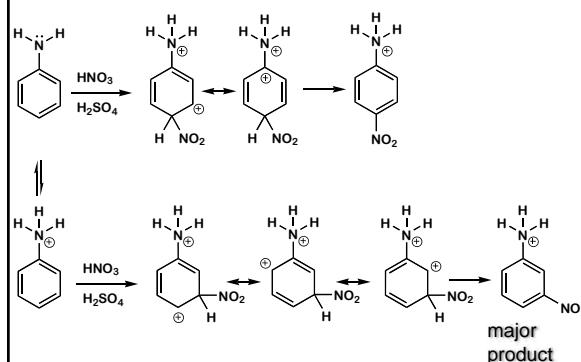


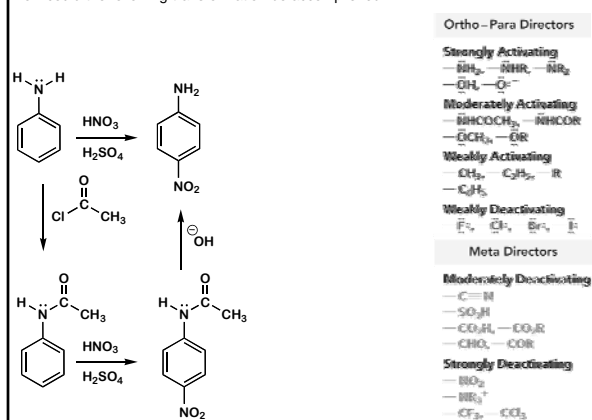
Review: What is the major product of the following reaction?



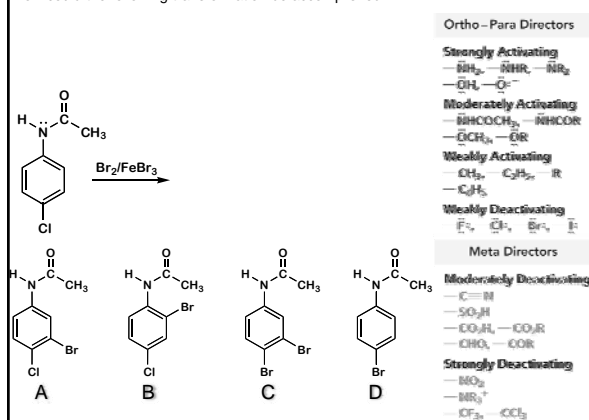
Review: What is the major product of the following reaction?



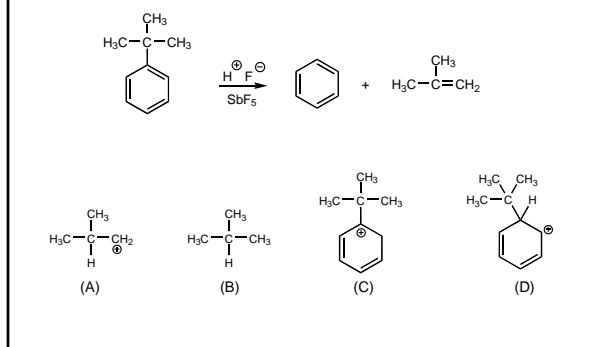
How could the following transformation be accomplished?



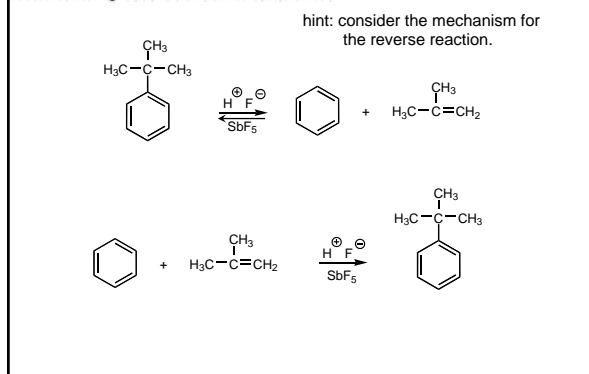
How could the following transformation be accomplished?



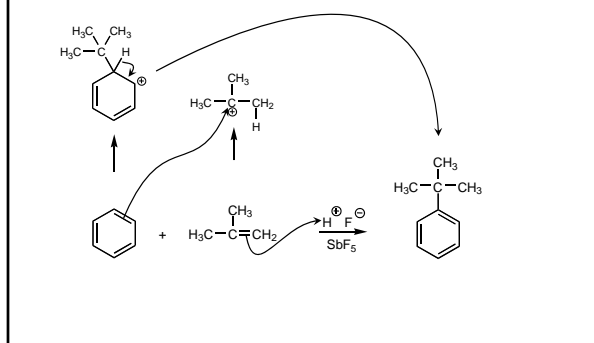
Addition of tert-butylbenzene to HF/SbF_5 followed by aqueous workup gives benzene. Using the curved arrow formalism show how the bond making and bond breaking occurs in this transformation.



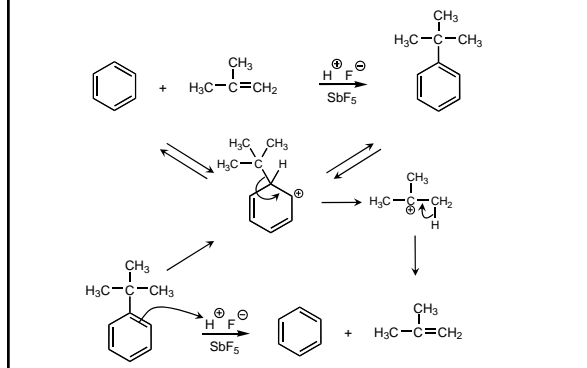
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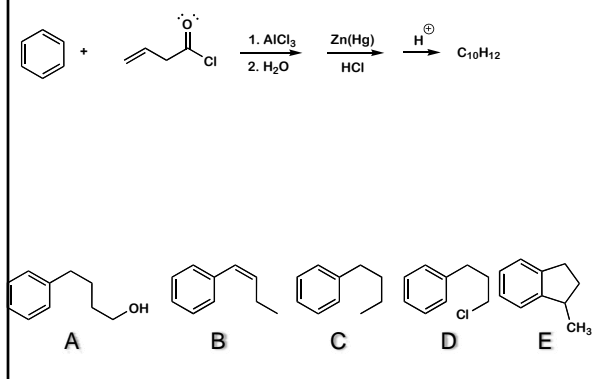
Addition of tert-butylbenzene to HF/SbF₅ followed by aqueous workup gives benzene. Using the curved arrow formalism show how the bond making and bond breaking occurs in this transformation.



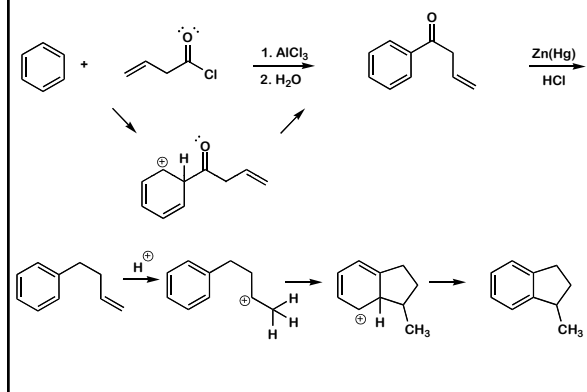
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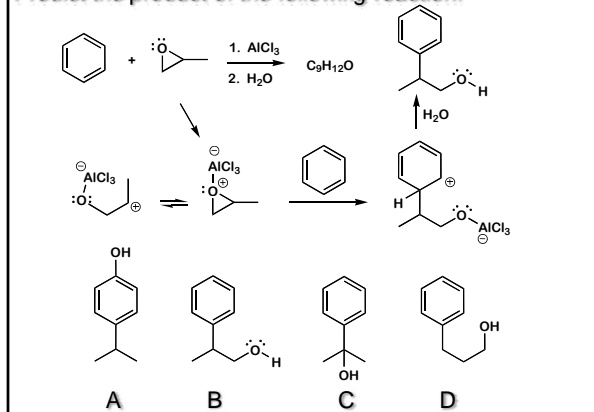
What is the major product of the following reaction sequence?



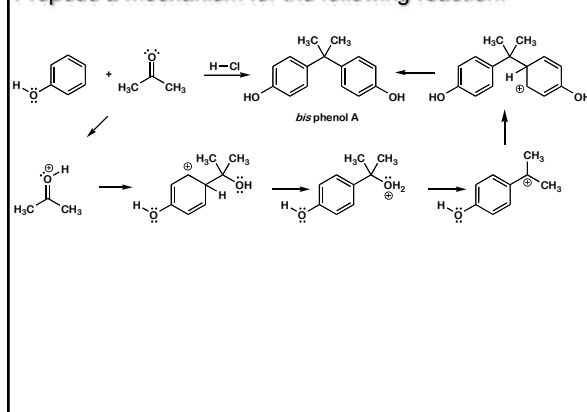
What is the major product of the following reaction sequence?



Predict the product of the following reaction.



Propose a mechanism for the following reaction.



**End of Material
for Exam 1**

Good Luck!!!

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