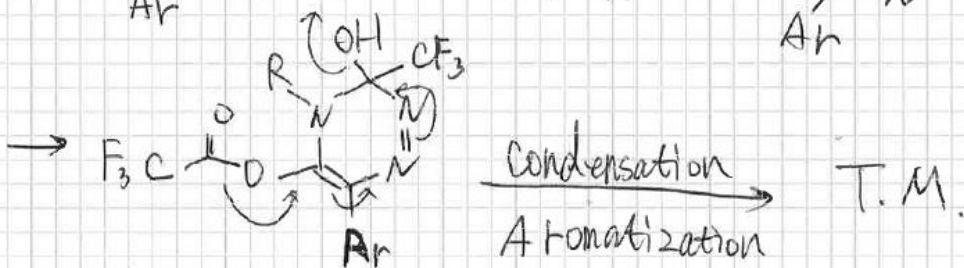
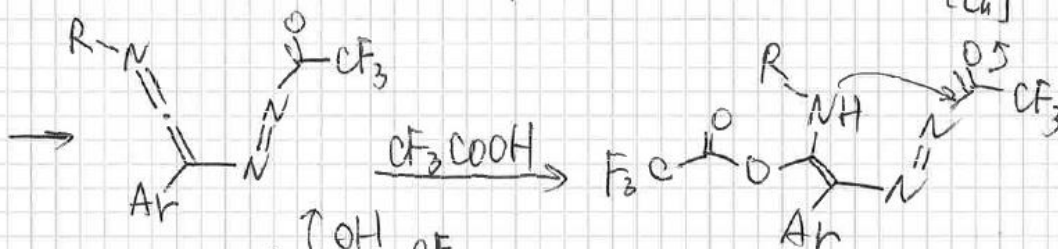
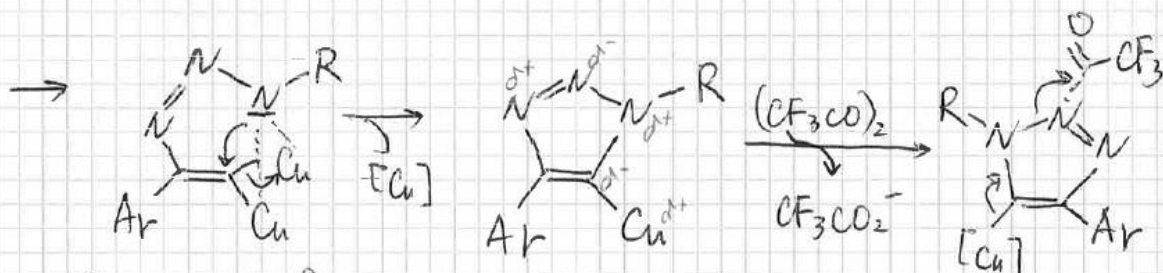
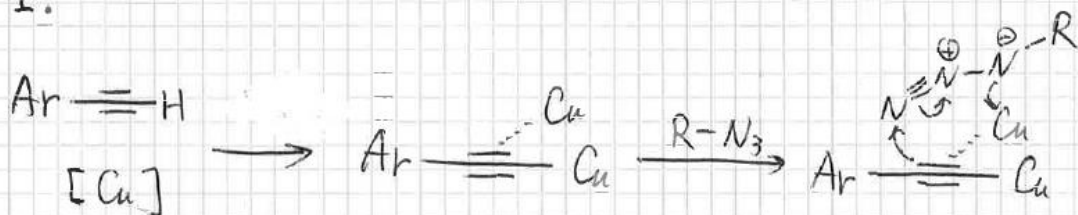
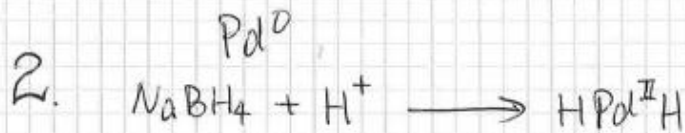
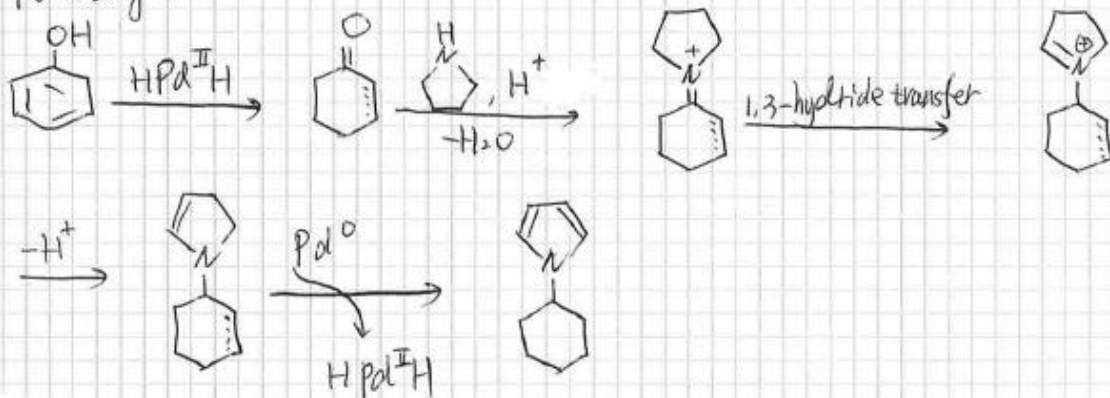


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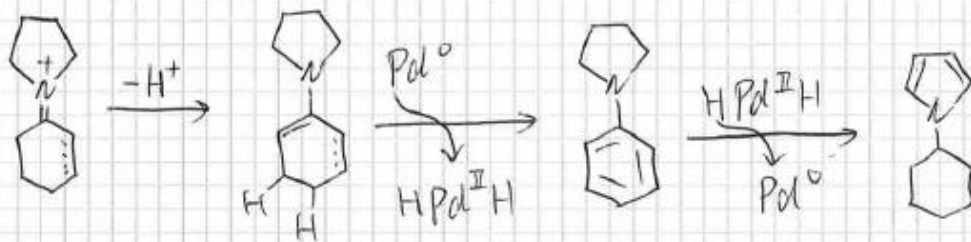




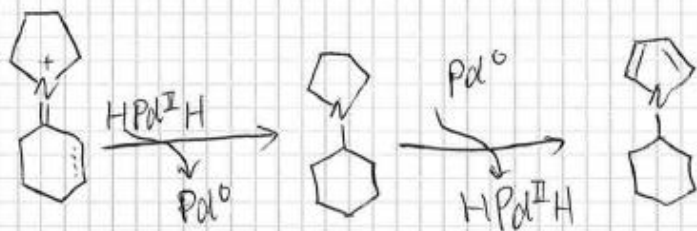
Pathway A:



Pathway B:

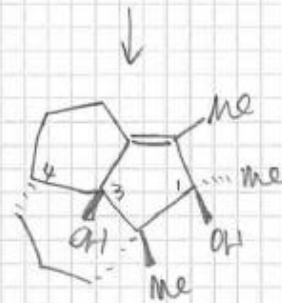
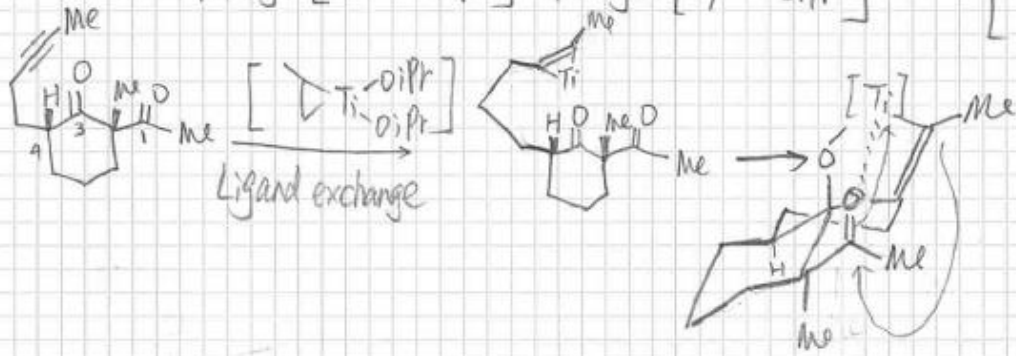
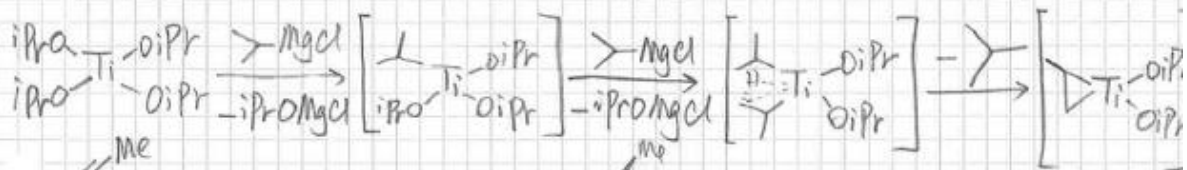
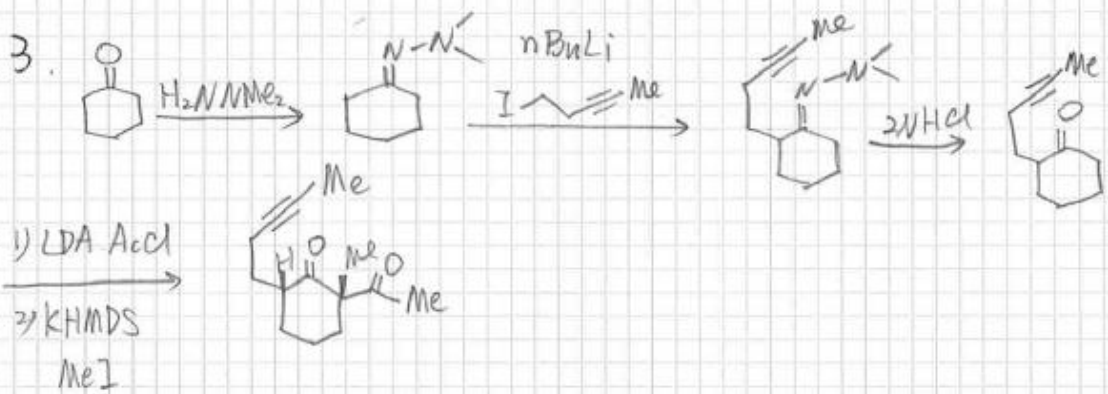


Pathway C:



For 4-alkyl substituted phenols, thermodynamically, trans isomer is more favored





4-A. carbon-carbon bond cleavage

ring fragmentation

