

Organic Chemistry II

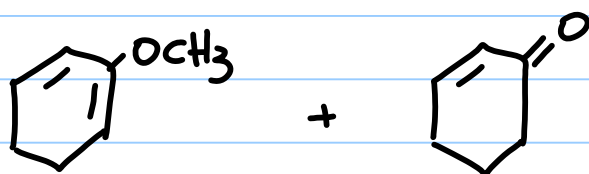
Practice Final Exam

(c) LEAH4SCI

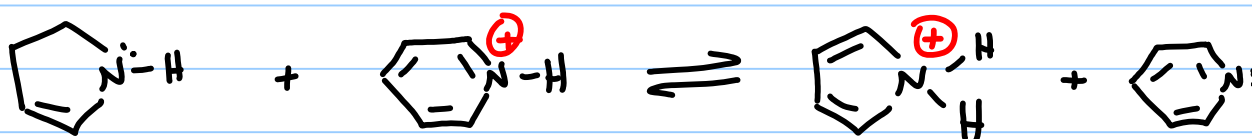
Exam Solutions

[LEAH4SCI.COM/ORG02FINAL](http://LEAH4SCI.COM/ORG02FINAL)

① determine the product of this reaction

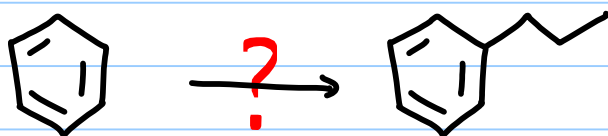


② determine if this reaction favors reactants or products at equilibrium. Use drawings to justify your answer

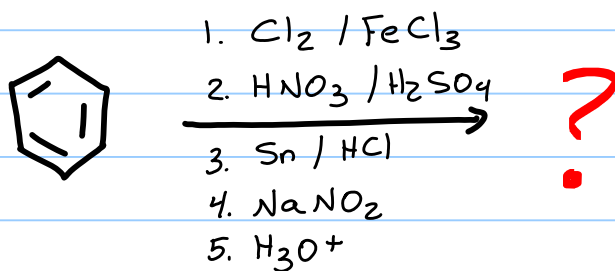


③ Determine the product (or products) when 2-methyl-1,3-pentadiene reacts with HCl under hot and cold conditions

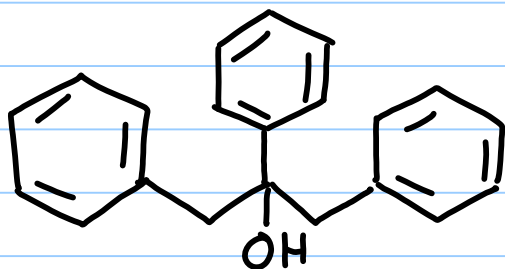
④ Show how to bring about the following transformation:



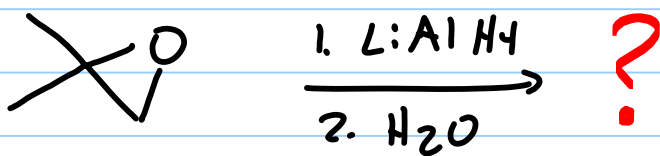
⑤ Determine the product of the following reaction sequence:



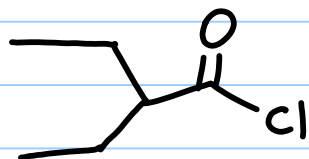
- ⑥ Show how to synthesize the molecule below starting from toluene + any inorganic reagents  
 Hint: count your carbons



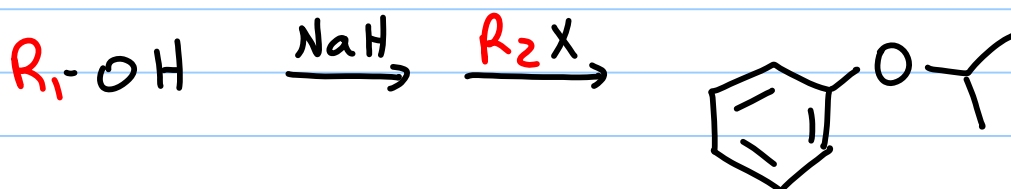
- ⑦ Complete the following reaction



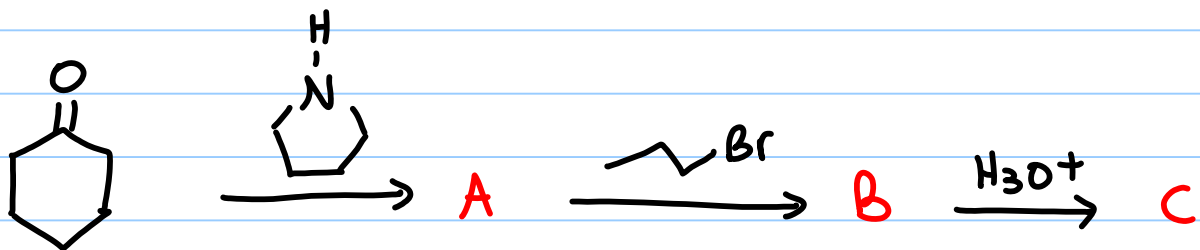
- ⑧ Show how to synthesize the molecule below starting with malonic acid + any other reagents



- ⑨ Select the best alcohol + alkyl halide for the following synthesis



⑩ Identify all intermediates and products for this reaction sequence



Download Exam Solutions at

[Leah4sci.com/orgo2final](http://Leah4sci.com/orgo2final)

PDF + Video