

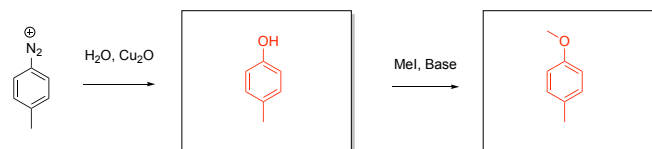
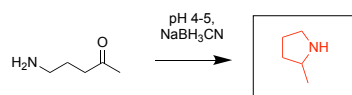
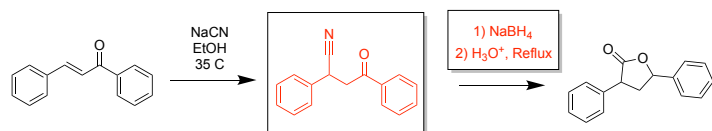
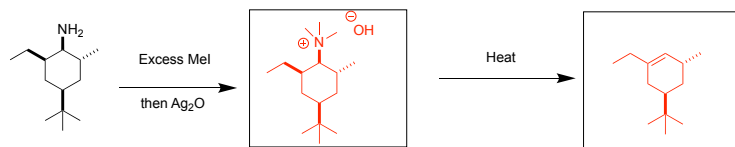
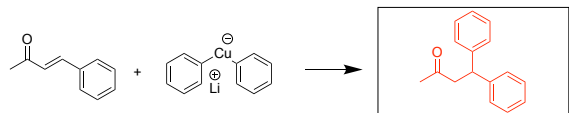
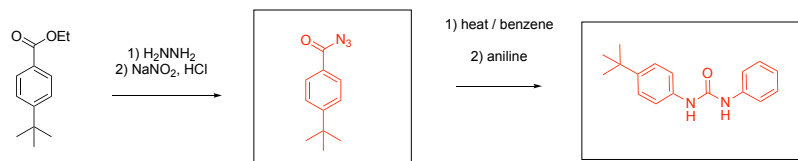
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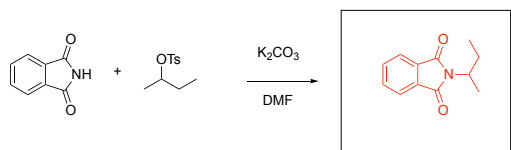
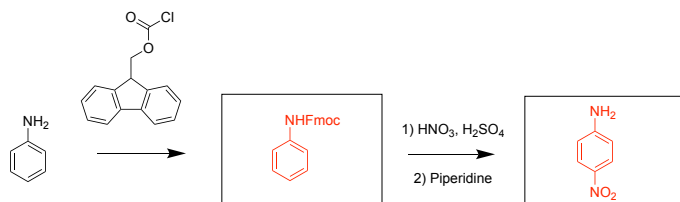
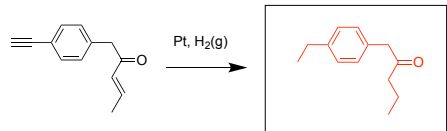
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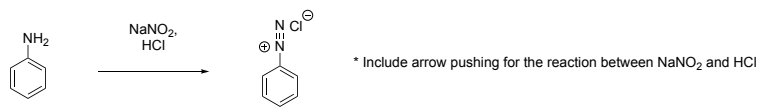
Midterm #3

1) Fill in the blanks with the appropriate reagents and/or predict the major product. (4 pts per row).

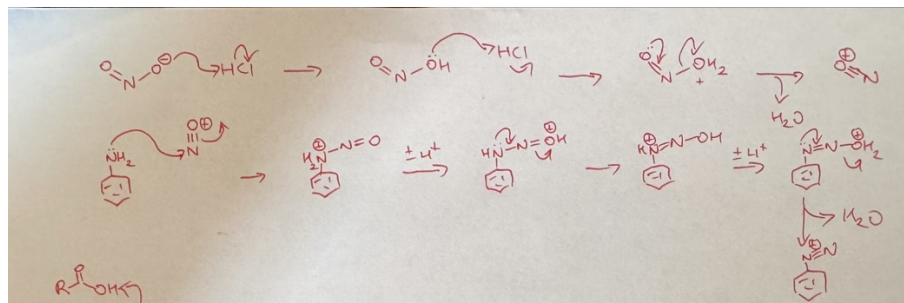


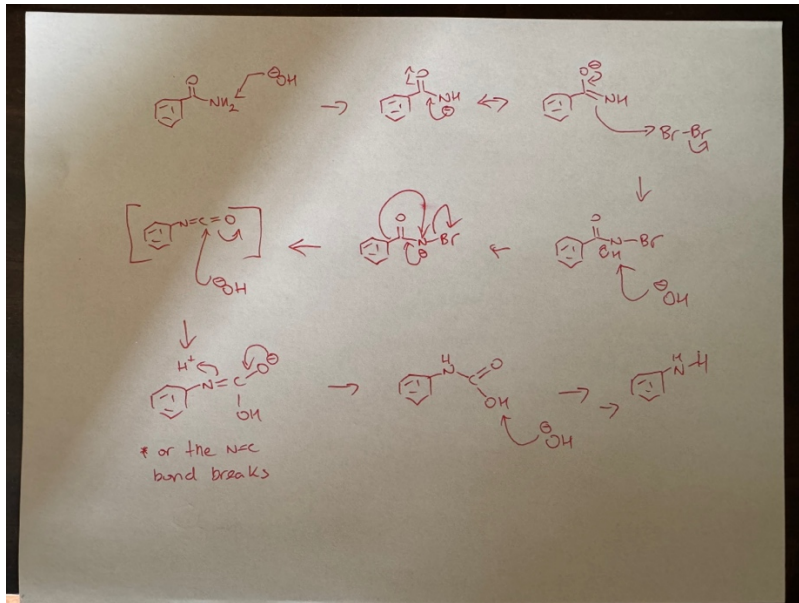
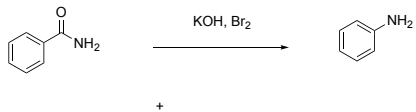
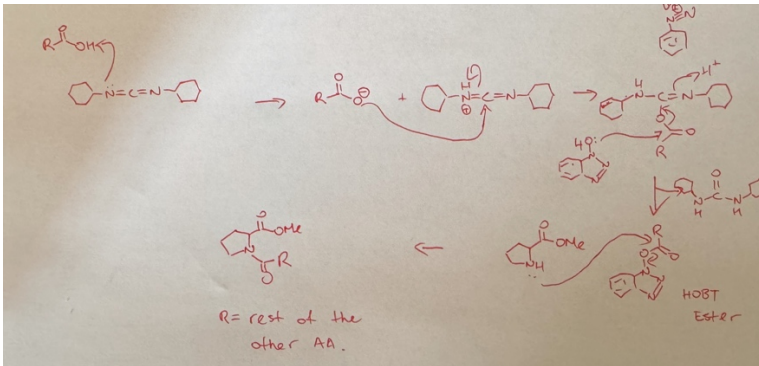
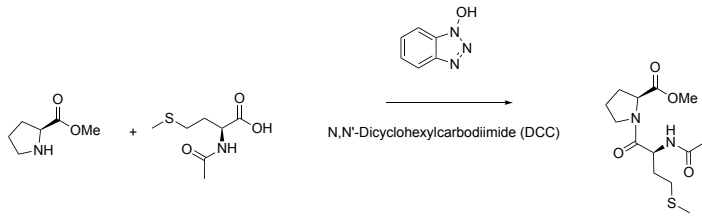


2. Draw the full arrow pushing mechanism for the following reactions (10 pts per Q)



* Include arrow pushing for the reaction between NaNO₂ and HCl





3) Propose an efficient synthesis for the following reactions. Indicate all reagents, solvents, and intermediates. (10 pts per Q)

