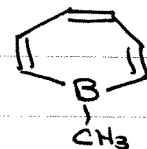
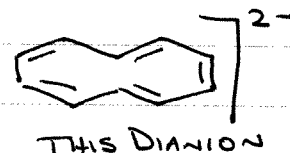
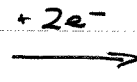
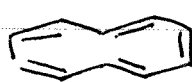


## ASSIGNMENT #1 - NEVER DUE

1. CLASSIFY THE FOLLOWING COMPOUND BY HÜCKEL'S RULE AS BEING AROMATIC, ANTIAROMATIC, OR NON-AROMATIC. INDICATE THE NUMBER OF  $\pi$ -ELECTRONS PRESENT IN THE OVERLAPPING  $\pi$ -SYSTEM IN EACH CASE

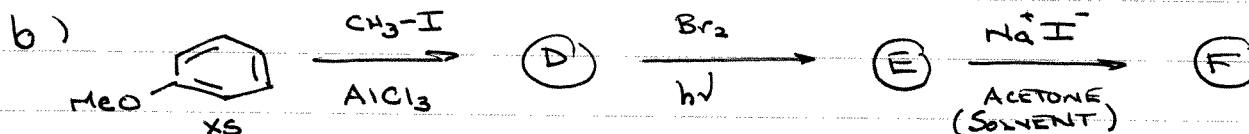


CONSIDER EACH RING INDIVIDUALLY AND THE PERIPHERY AS A WHOLE

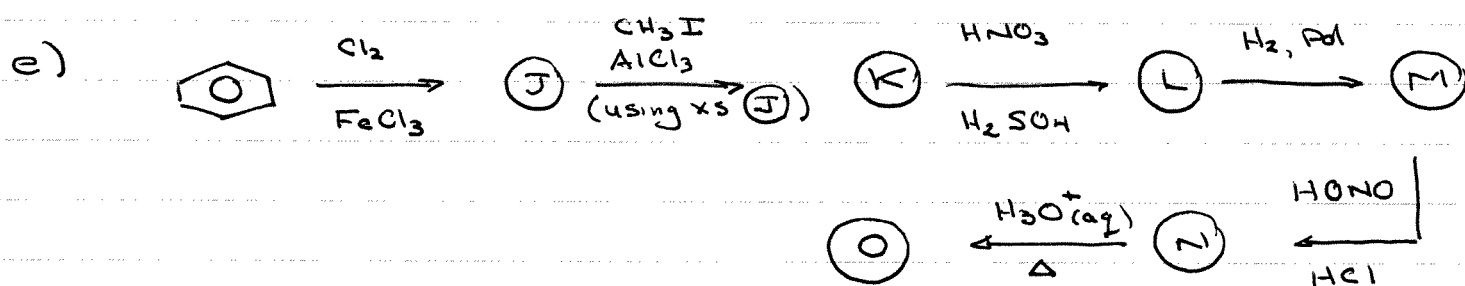
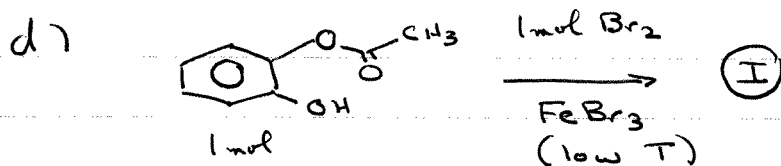
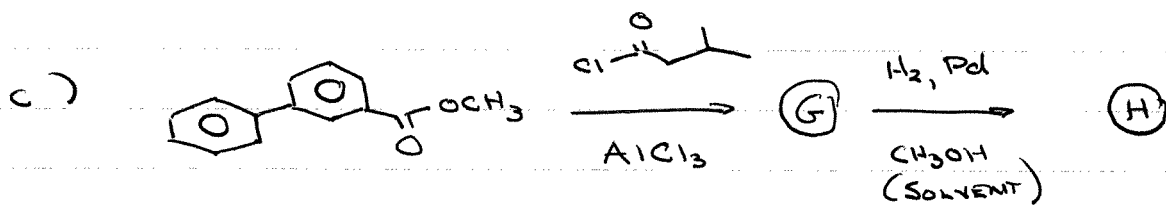
2. GIVE THE MAJOR PRODUCT(S) OF THE FOLLOWING TRANSFORMATION. IF THERE IS A MIXTURE OF A SUBSTANTIAL AMOUNT OF TWO PRODUCTS IN A REACTION, SHOW THEM BOTH AND THEN TAKE THE MAJOR ONE ON THROUGH ANY SUBSEQUENT STEPS. IF YOU CAN'T TELL WHICH IS MAJOR TAKE THE BOTH THROUGH.



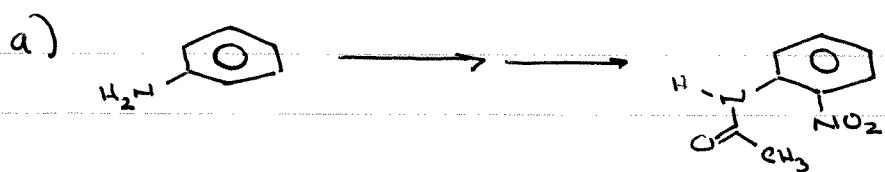
NOTE: CARBOXYLIC ACIDS ARE VERY RESISTANT TO CATALYTIC HYDROGENATION UNDER NORMAL CONDITIONS.



NOTE: THE LAST STEP MAY REQUIRE SOME REVIEW OF THE 59-230 NOTES, BUT RECALL THAT  $I^-$  IS A WONDERFUL NUCLEOPHILE



3. SHOW BY SEVERAL REACTION STEPS HOW YOU WOULD ACCOMPLISH THE FOLLOWING OVERALL TRANSFORMATIONS. SHOW ANY INTERMEDIATES THAT COULD BE ISOLATED, AND INDICATE REASONABLE REACTION CONDITIONS.



NOTE: THE PROPER ANSWER WILL HAVE A HIGH ORTHO-DISUBSTITUTION CONTENT

