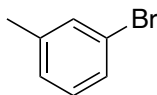


Organic Chemistry 2: Quiz 2

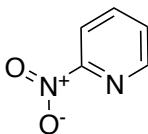
2/13/2026 BJM

Name: Key

1. (9 pts) Provide the structures for the compounds below

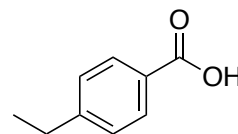


meta-bromotoluene



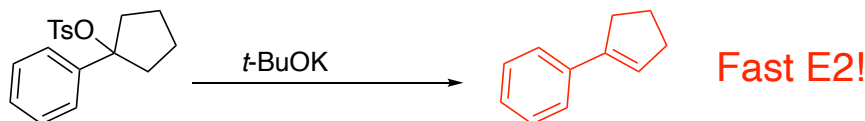
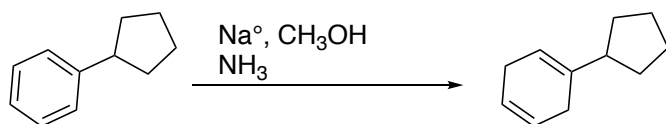
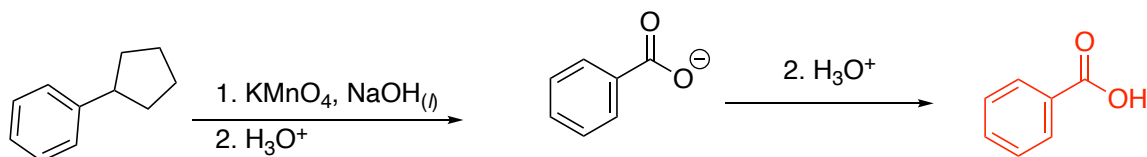
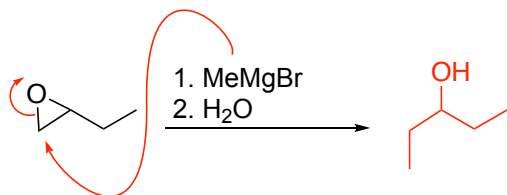
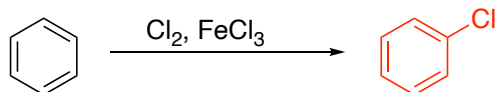
2-nitropyridine

note: you will likely find something helpful below for this one



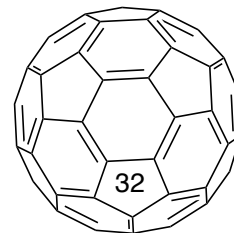
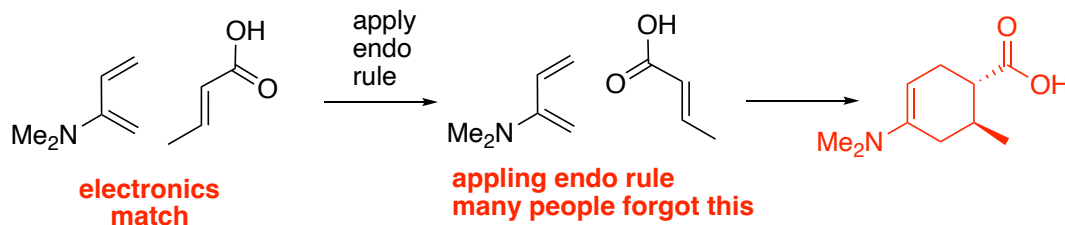
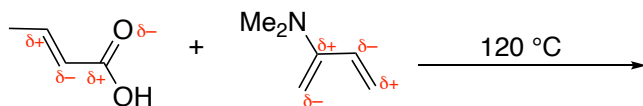
para-ethylbenzoic acid

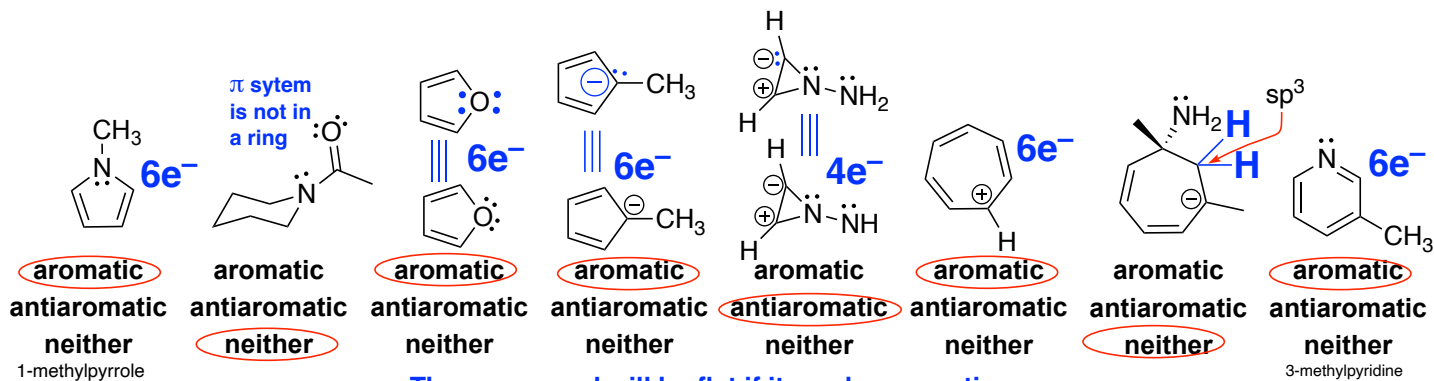
2. (15 pts) For the following reactions, give the major product.



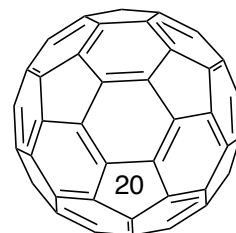
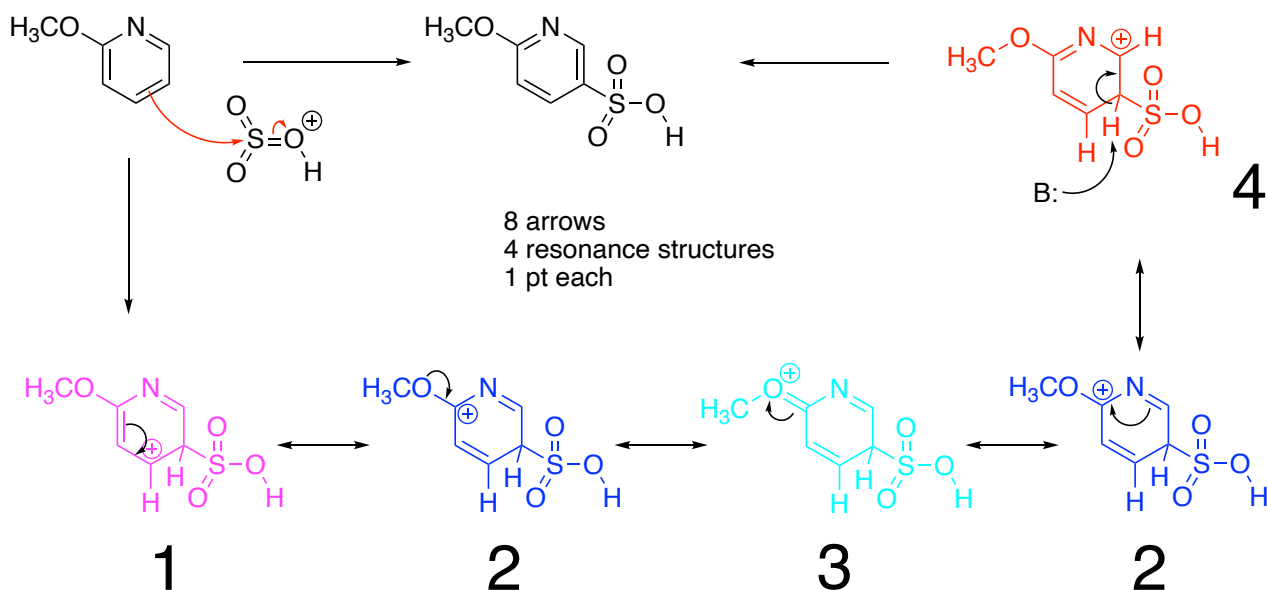
Fast E2!

3. (8 pts) Predict the major product of the Diels-Alder reaction below. Be sure to redraw the diene and dienophile appropriately as I had shown in class.





4. (12 pts) Draw a detailed arrow pushing mechanism for the following EAS reaction. For full credit, draw all 4 resonance structures that show distribution of charge in the intermediate. Note there are 4!



Did you draw all 4 resonance structures?