

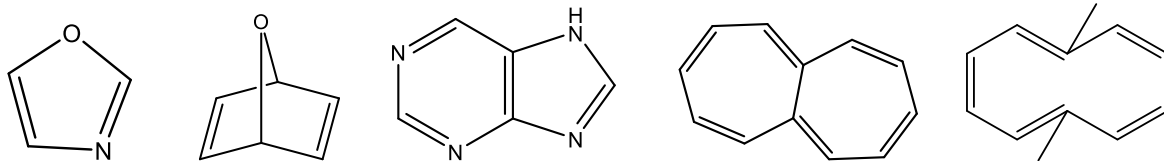
# PA LOT

Organic Chemistry I – Dr. Townsend

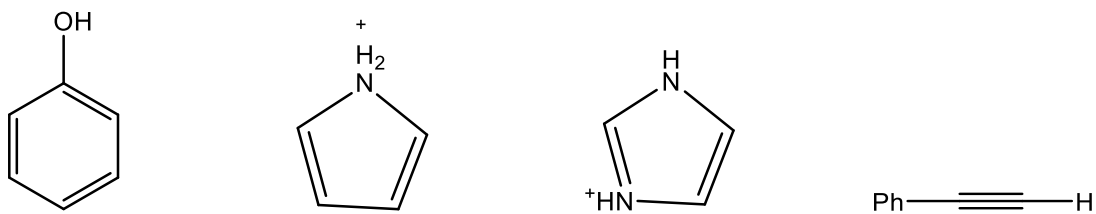
Problem Set #8

Fall 2018

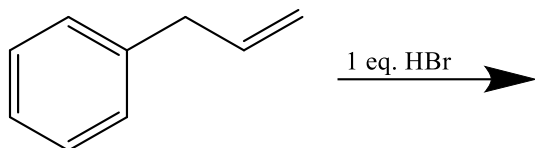
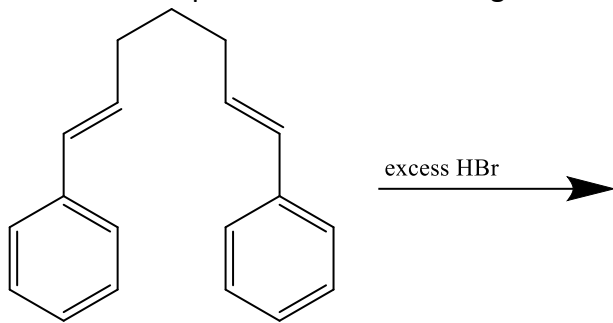
1. Identify whether the following compounds are aromatic, anti-aromatic, or neither.



2. Identify which of these compounds has the highest pKa and the lowest pKa.

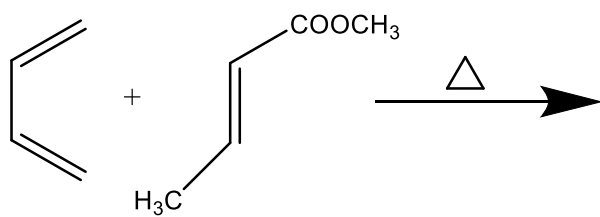
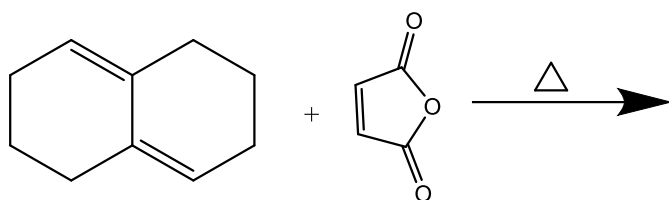
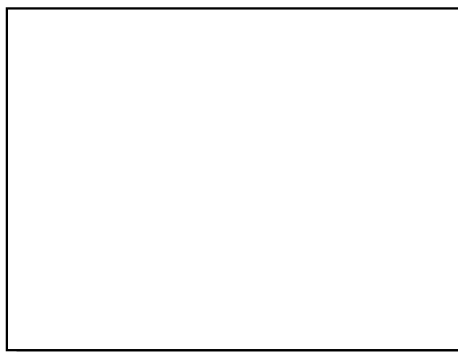
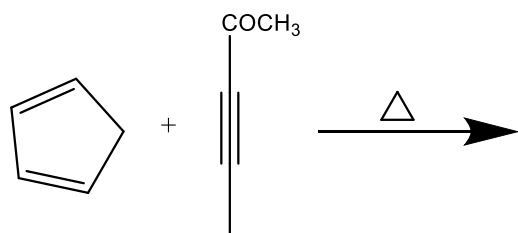


3. What is the product of the following reactions?

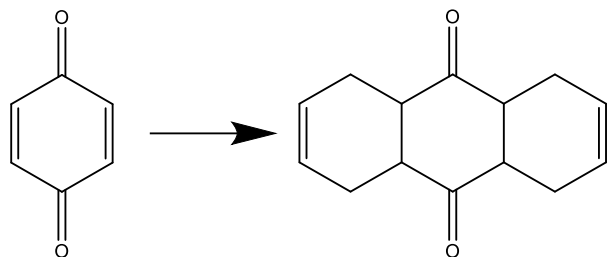




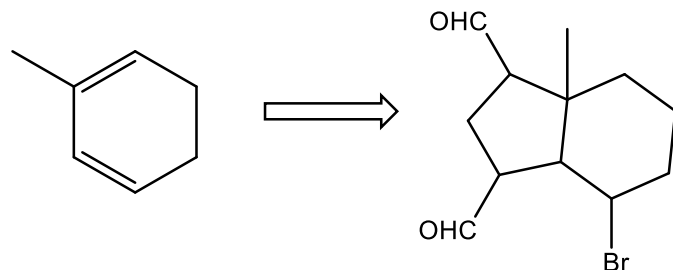
5. What are the products of the following reactions?



6. Only using 4-Carbon reagents, synthesize the following product from the starting material.



7. How would you synthesize the product from the following starting material?



***PILOT Learning - Tip of the Week***

As we round the bend of mid-terms into finals, it is a good time to find quiet places to study on campus. Have you checked out the newly renovated 3<sup>rd</sup> floor of Latrobe Hall? What about settling down to read read in one of the rocking chairs in the Mudd Atrium? Both are inviting places to study. The Office of Academic Support (OAS) will release a list of quiet study spaces just before Reading Period starts in December. To stay informed please check out our website:

<https://advising.jhu.edu/tutoring-mentoring/>