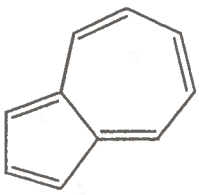
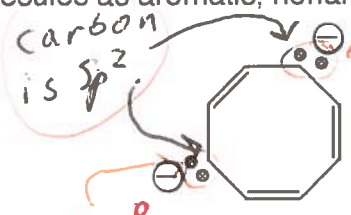
MAD ORG. CHEM "MIN." #15

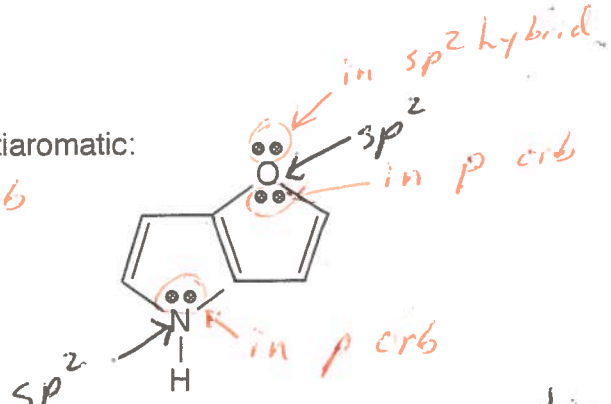
1. Label the following molecules as aromatic, nonaromatic, or antiaromatic:



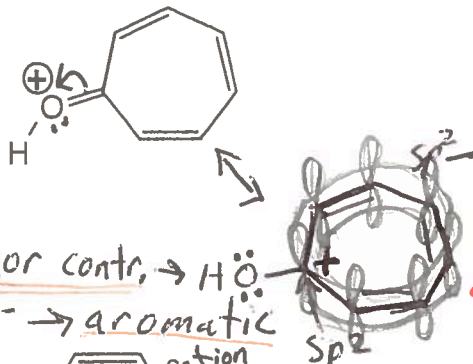
10 π e⁻ → aromatic
planar
4n+2 = 10
n = 2

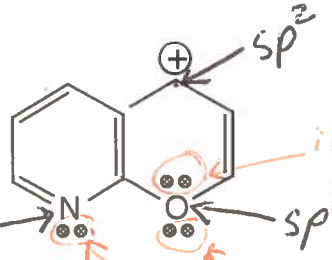


10 π e⁻
aromatic
dianion

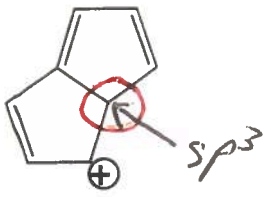


10 π e⁻ → aromatic



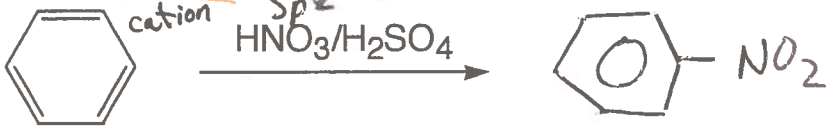


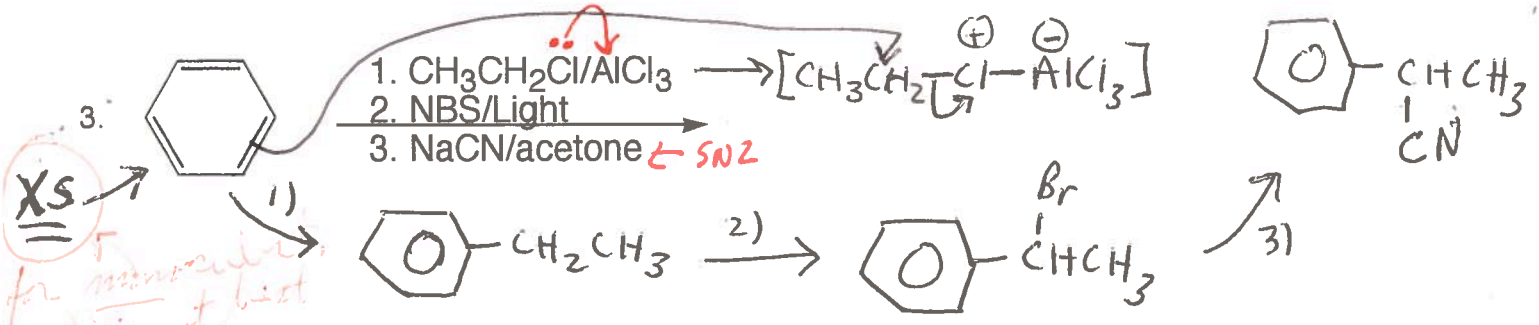
10 π e⁻ → aromatic
cation

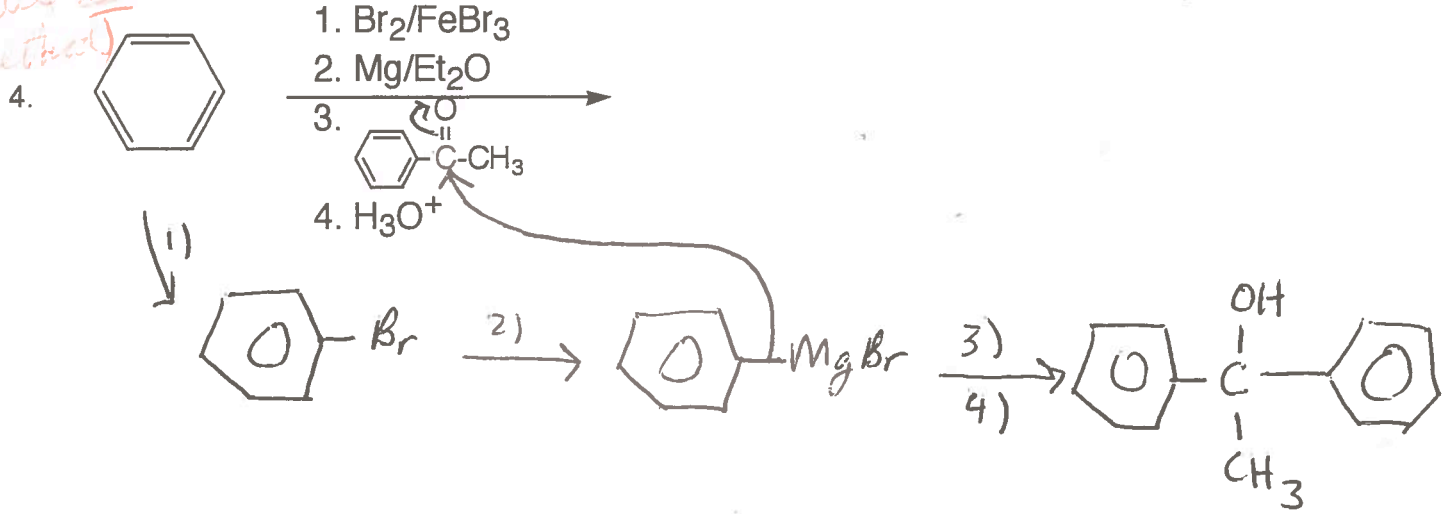


6 π e⁻ but
nonaromatic
(1 carbon does not have a p orb.

← 6 π e⁻ over 7 p orb.

2. 

3. 

4. 

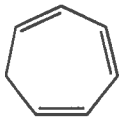
MAD ORG. CHEM "MIN." # 14 (PARTIAL) PLUS

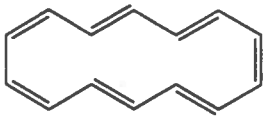
LAST NAME_____ FIRST NAME_____

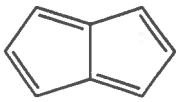
ID#_____ Circle SECTION: **10AM** or **1PM**

1. Copy your answers from Mad Org CHEM Min # 14 for the problem below.

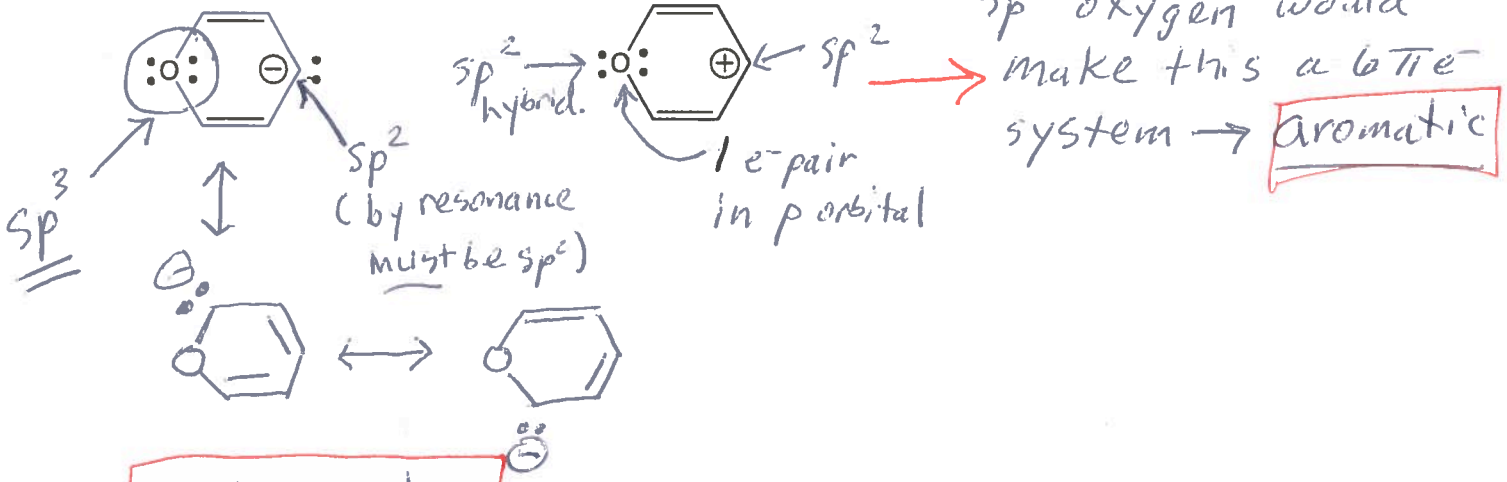
3) Label the following molecules as aromatic, nonaromatic, or antiaromatic:







2. Label the following molecule as aromatic, nonaromatic, or antiaromatic:



* if Oxygen is sp^2, would be antiaromatic (8 π e⁻) and so less stable