

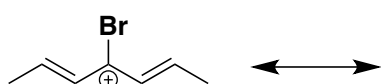
CHE 310 – 002 & 003
Lecture Homework #8

Section 2 Due: Wednesday Feb 6, 2019, 9:00 am.

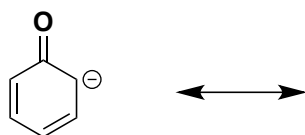
Section 3 Due: Wednesday Feb 6, 2019, 10:00 am.

1. Draw all of the relevant resonance contributors for the molecules below. Use curved arrows to show how each structure is converted to the next. On the final structure show that arrow that would return to the original. In each case circle the more stable resonance contributor (if there is one) and briefly explain your reasoning. Assume lone pairs fill valences as appropriate.

a.

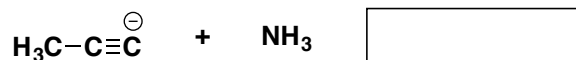


b.

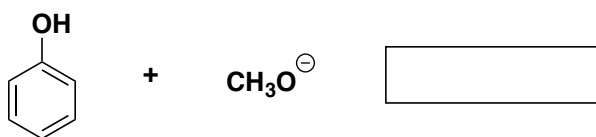


2. For the acid/base equilibria below: a) predict the product of each reaction; b) use curved arrows to show the bonds formed and broken in the reaction; c) place arrows in the box to indicate in the direction in which the equilibrium is favored; d) above the box indicate the magnitude of the equilibrium in the forward direction (reaction going from left to right). (Hint: all the pKa's needed can be found within the pKa Match Game.)

a.



b.



3. Play a minimum of five minutes with at least five attempts on the pKa Match Game

<https://www.nku.edu/~russellk/demo/login.php>