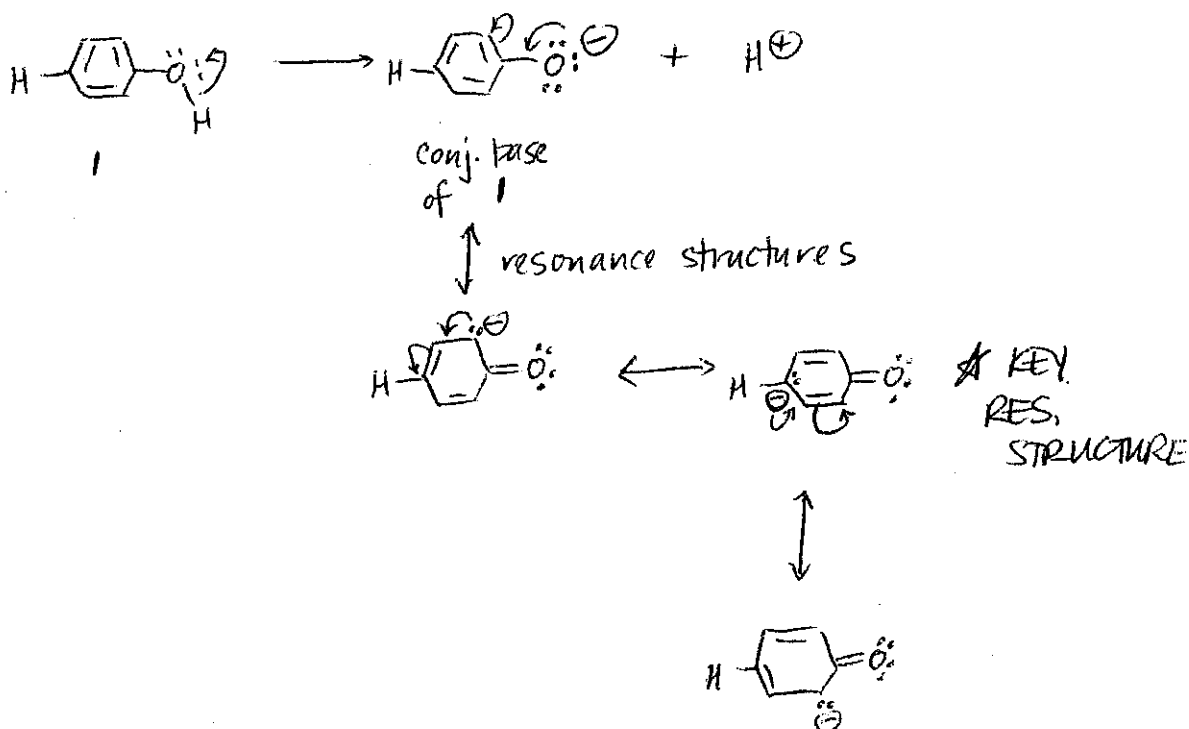


PROBLEM SET #1 SOLUTIONS

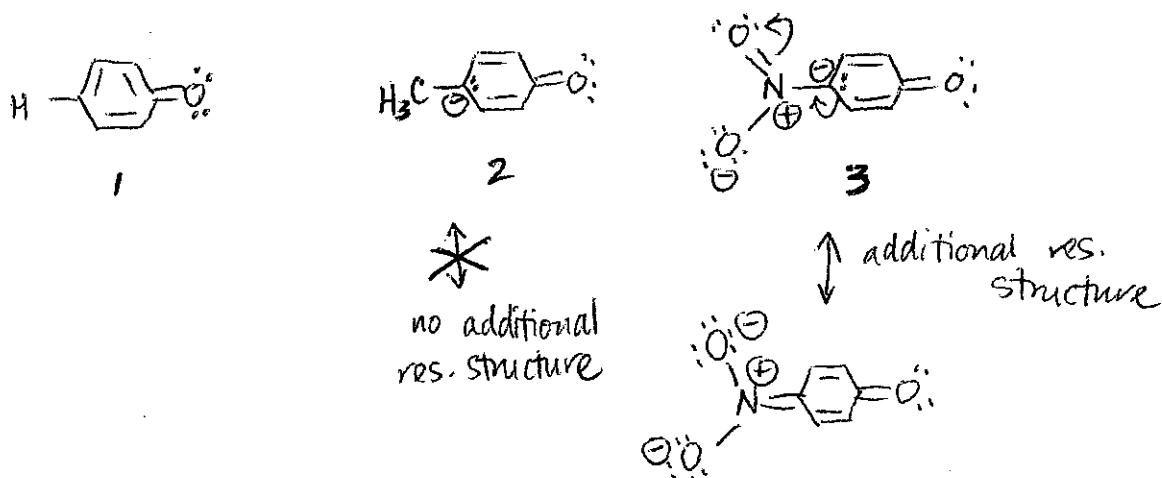
1. Lower $pK_a \Rightarrow$ stronger acid

Stronger acid has more stable (weaker) conjugate base.

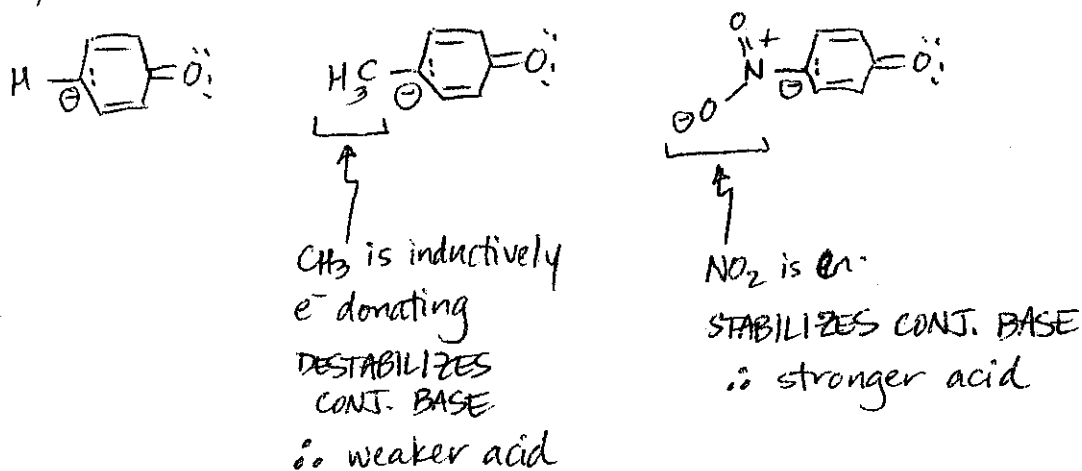
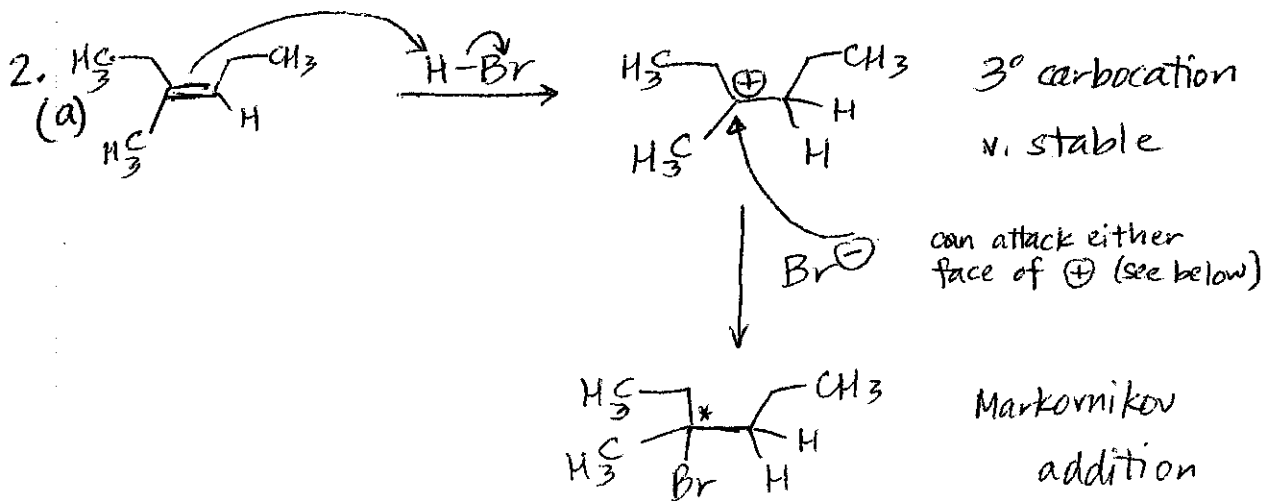
Need to compare stabilities of conj. bases:



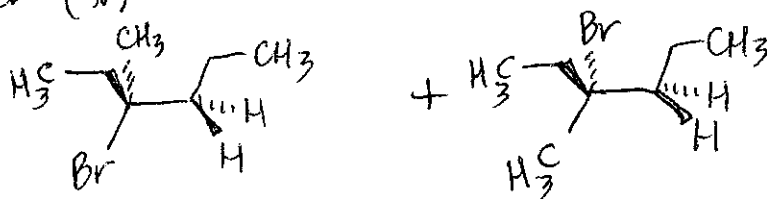
Draw "key" resonance structures for 1-3

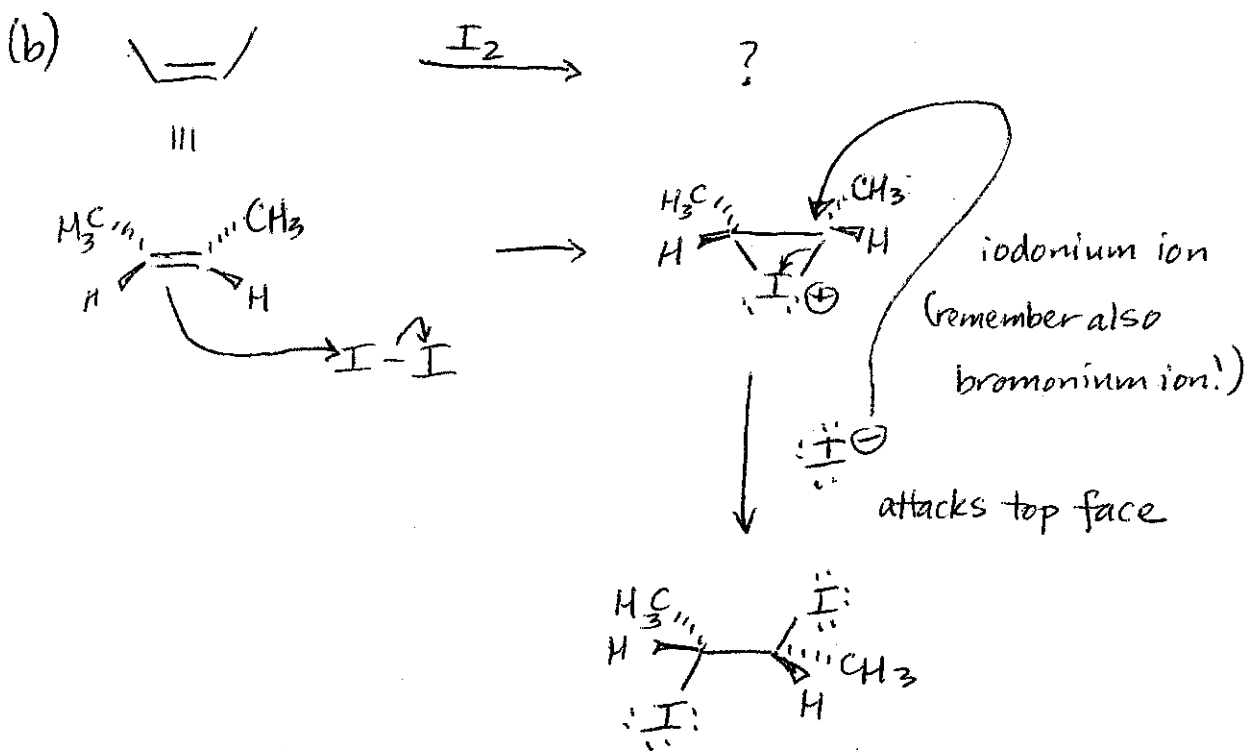


Plus,

So then: \longrightarrow increasing acidity \longrightarrow 

(*) Will get 2 products since you have created a chiral center (*):





Net stereochemistry of I's is anti to each other due to iodonium ion.

