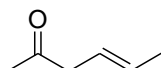


Resonance practice problems

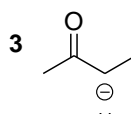
For each of the molecules shown, provide at least one additional reasonable resonance structure. (Some will have only one.) **Not all lone pairs are shown, but all non-zero formal charges are included.**



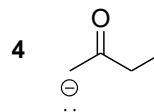
1



2



3

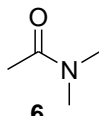


4

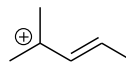
(How many hydrogens are on the carbon with the negative charge in structure 3? in structure 4?)



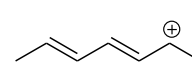
5



6



7



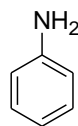
8



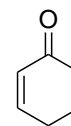
9



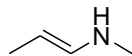
10



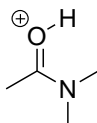
11



12



13



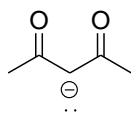
14



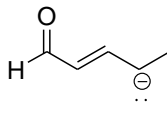
15



16



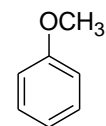
17



18



19



20