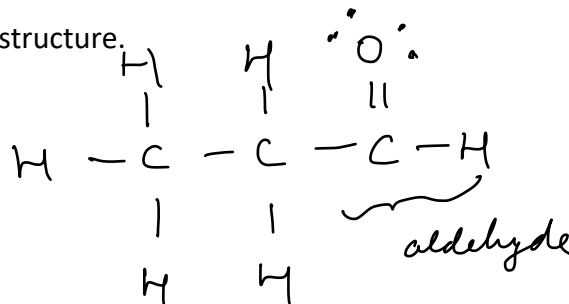
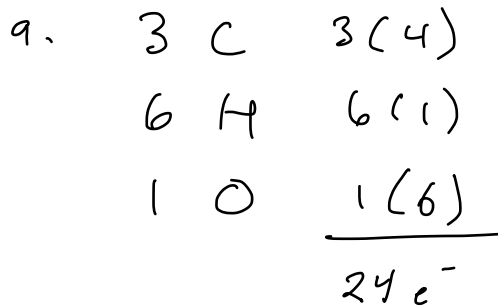


Quiz 2 (35 points)

Name Key

1. Consider the molecular formula C_3H_6O . (15 points)

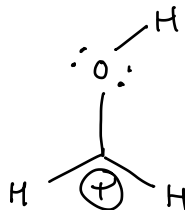
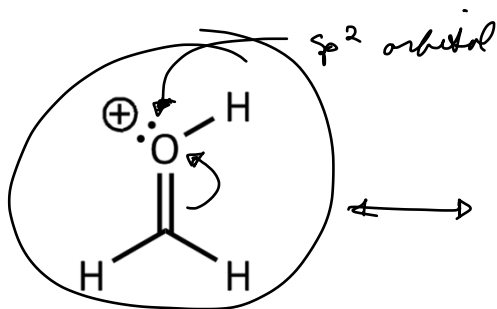
- How many valence electrons are present?
- Draw a *Lewis* structure for this molecule (there is more than one possible). Show any lone pairs of electrons.
- Name the functional group shown in your structure.



lots of other possibilities

3. Consider the structure shown below.

- Show the other resonance structure and use electron pushing to show how you arrived at it.
- Circle which form is the *major* form (the most reasonable).
- What is the hybridization of the oxygen atom?
- In the structure shown below, what type of atomic orbital is the lone pair of electrons in? (20 points)



major form

- more bonds + all octets