

Name: \_\_\_\_\_

## Chemistry 250A -- September 10, 2009 -- HW/Quiz #1

To receive full credit *show all lone pair electrons and non-zero formal charges*.

1. (5 pts) Aldrich Chemical Company sells six compounds with the formula  $C_5H_7ClO$ . Draw Lewis structures for 3 *stable* molecules (constitutional isomers) having this molecular formula.

2. (5 pts)

a) Complete the Lewis structure shown below by indicating all non-zero formal charges.

b) Draw an additional important resonance form for this molecule. (Hint: All atoms should have filled shells.)

c) Circle the resonance form that is most important.

