

Name _____ (print) Name _____ (sign)

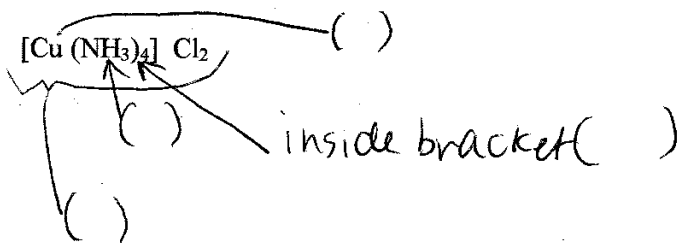
Please show all work for full credit & to get partial credit. (suggestion: A guess is better than no answer.)

turn in deadline in classroom: Please return the completed take home quiz by 4/22 M by 9:45 am.

You will receive the answer key as you turn in the take home quiz in class. After this deadline the quiz will be worth zero points because I will hand out the key and will discuss the answers.

turn in deadline into turn in box: You may also turn in this quiz anytime before 9:20 am into my turn in box or under the door of my office LSF 303 H for full credit. You cannot turn in the take home quiz into my turn in box or under the door of my office after 9:20 am (for the 9:30 am class). I will check my turn in box and under the door of my office LSF 303H at 9:20 am. If the take home quiz has not been turned into my box by this deadline, then you would be turning in the take home quiz after the answer key has already been handed out in class (because I would already have entered the classroom and I will not be at my office or at my turn in box & I will not be back at my office until after I have handed out the answer key) so the take home quiz will be worth zero points after this final deadline.

1. For the coordination compound given, label each parenthesis with the correct letter. You may use each letter one time, many times or not at all. (a) metal (b) ligand (c) coordination complex (d) coordination compound (4 pts, 1 pt per blank)



For the coordination compound shown, the coordination number is _____ (2 pts)

The charge on the coordination complex is _____ (2 pts)

- 2 For the reaction $CaCO_3(s) \rightarrow CaO(s) + CO_2(g)$ if $\Delta H^\circ_{RXN} = 178.3 \text{ kJ}$ and $\Delta S^\circ_{RXN} = 159.0 \text{ J/K}$ at 25°C (298 K) what is the ΔG°_{RXN} (12 pts) $[\Delta G^\circ_{RXN} = \Delta H^\circ_{RXN} - T\Delta S^\circ_{RXN}]$