QUIZ #4 (100 points)

Answer all questions as completely as you can. Clearly show your work and reasoning.

1. Draw linking lines to show how the two reactions shown below can procedure by a Dewar-Zimmerman favorable concerted reaction process <u>under the conditions shown</u>. Classify the reaction as aromatic (Huckel) or Mobius, and give the number of electrons involved in the pericyclic process. (60 pts).

2. Describe <u>two</u> experiments that you could do to help you to decide whether a given reaction proceeds by a radical pathway or (maybe) not. Assume that you will NOT be able to observe the typical radical intermediate in situ by EPR spectroscopy, due to its short lifetime. (40 pts)