## Chem 41c Quiz 2

Stoltz, Spring 2006 April 14, 2006

In the following complexes, what is the formal oxidation state of the metal, the  $d^n$  description, and the electron count? Feel free to use the periodic table in the room (no partial credit-5 points each)

1. The following compounds are treated with EtMgBr. Rank them from most reactive to least reactive. Most reactive = 1, Least Reactive = 4. (5 points)

2. For the following complex, what is the formal oxidation state of the metal, the  $d^n$  description, and the electron count? Feel free to use the periodic table in the room (5 points)

Ph<sub>3</sub>P CO oxidation state 
$$d^n$$
 electron count

Predict the products (if any) of the following reactions: (5 points each)

3.

4.

## **Bonus (5 points)**

Bonus: What is the driving force for the formation of product in problem 4?