Chem 41c Quiz 1

Stoltz, Spring 2004 April 5, 2004

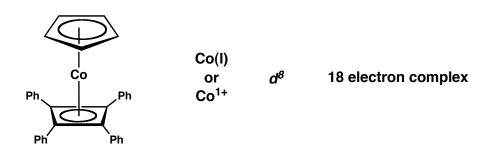
Predict the products (if any) of the following reactions: (5 points each)

1.

2.

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)

3.



4.

$$\begin{array}{c} \text{Rh(I)} \\ \text{(PPh}_3)_3 \text{RhCI} \\ \\ \text{or} \\ \\ \text{Rh}^{1+} \end{array} \quad \text{16 electron complex}$$

Bonus (5 points)

The complex below is commonly called Schwartz' reagent and is useful for many organic transformations. 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)

