Chem 41c Quiz 1

Stoltz, Spring 2009 April 10, 2009

You have 25 min to take this quiz. It is closed note, closed book, and no collaboration is allowed. Please do not discuss the quiz with anyone until you receive it back graded. Place a box around your answers. There is no partial credit.

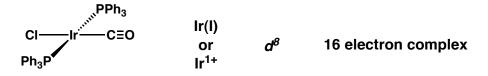
Predict the products (if any) of the following reactions: (5 points each)

1.

2.

3. 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)

a.



b.

OCTUPE CO

V(I) or V¹⁺

d⁴ 18 electron complex

Bonus (5 points)

Predict the major product (with stereochemistry) of the following catalytic reaction.

either answer is fine

