

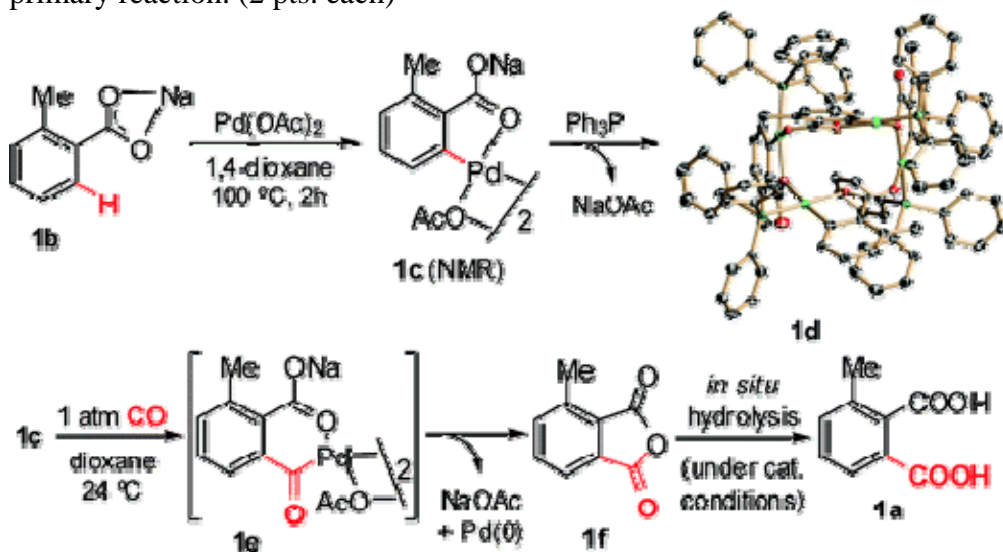
Organometallic Chemistry

Name: _____

Problem Set #5

Due: Nov. 4, 2008

1. Identify the following reactions by their type, i.e. oxidative addition, reductive elimination, etc. Note: some reactions will not show a ligand substitution or association step that must occur prior to the primary reaction. (2 pts. each)

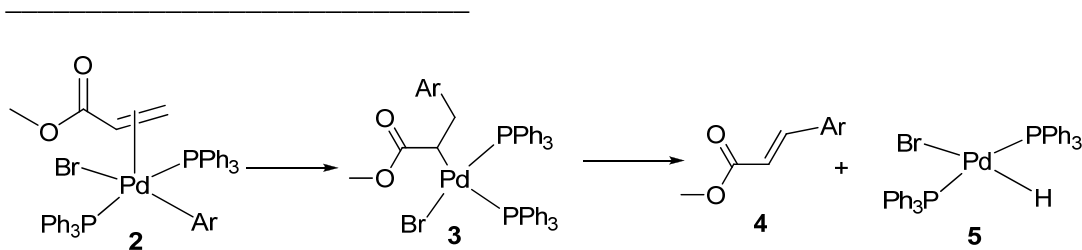
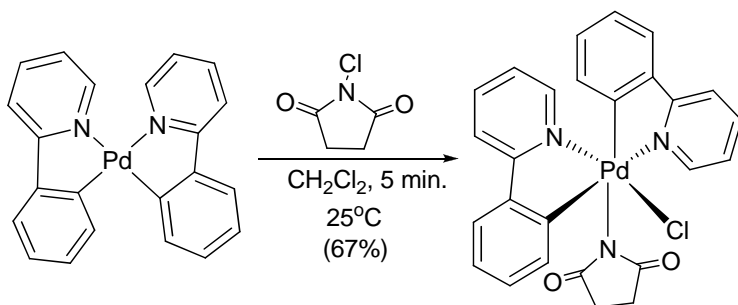


a) The reaction taking **1b** to **1c**. _____

b) The reaction taking **1c** to **1e**. _____

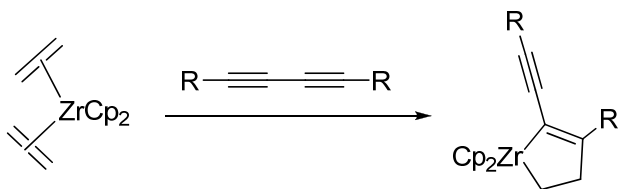
c) The reaction taking **1e** to **1f**. _____

d)

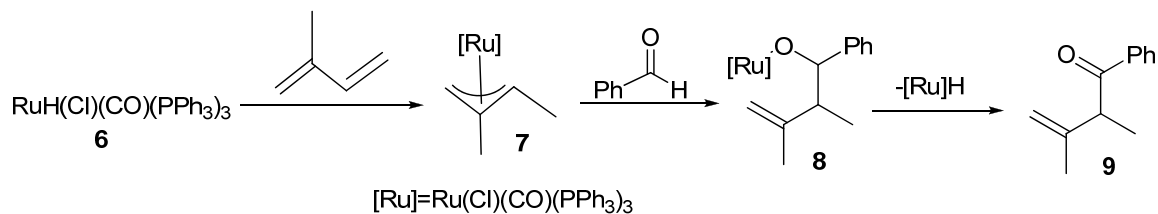


e) The reaction taking **2** to **3**. _____

f) The reaction taking **3** to **4** and **5**. _____



g) _____



h) The reaction taking **6** to **7**. _____

i) The reaction taking **8** to **9**. _____

2. Propose a mechanism for the following conversion. Draw all intermediates leading to the final structure. (2 pts.)

