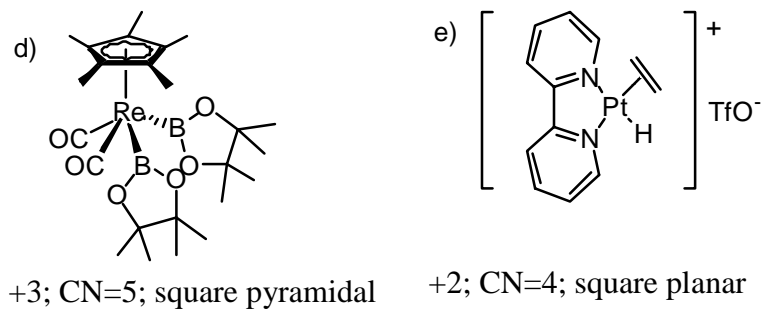
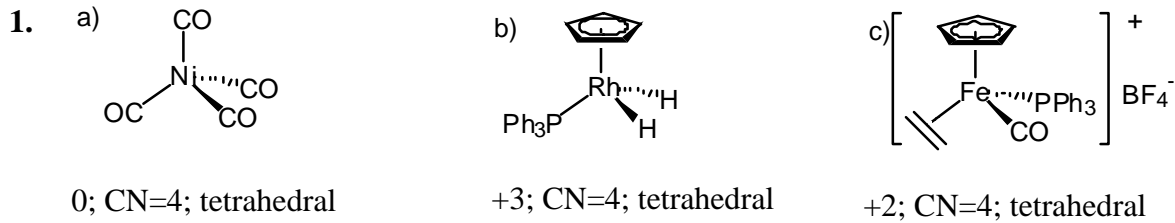
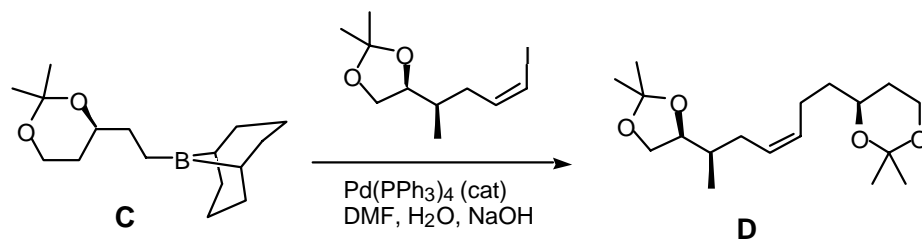
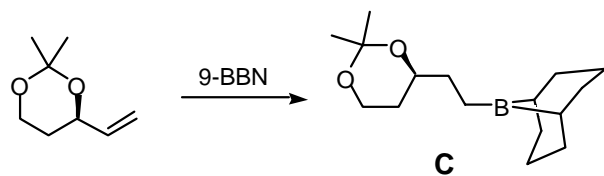
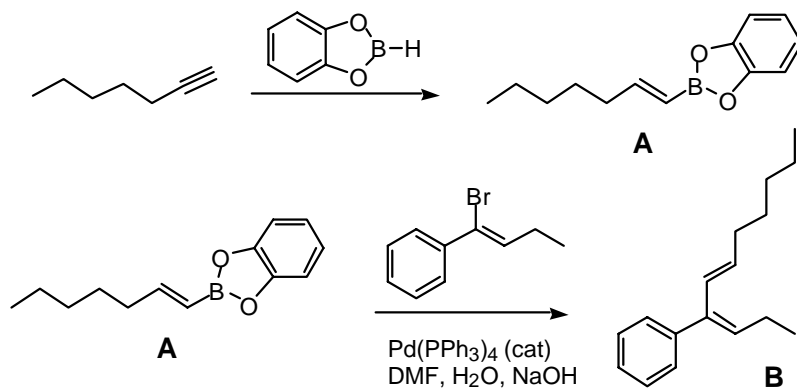


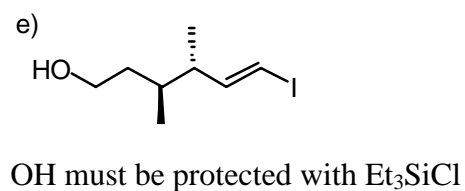
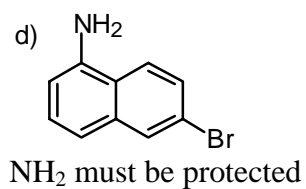
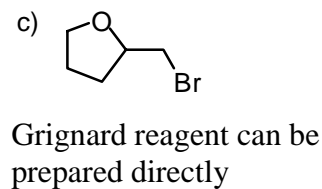
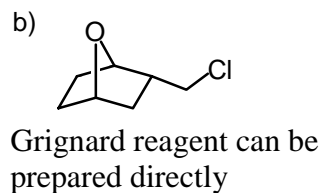
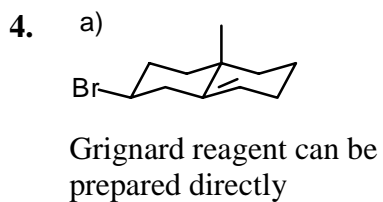
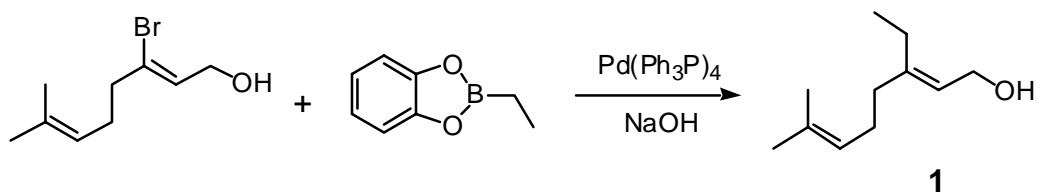
## Answer Key for the Problem Set 2



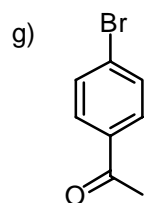
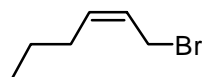
2.



3.

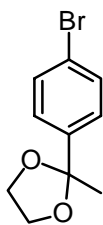


Grignard reagent can be prepared directly at low temperatures, but for more stressed conditions, the following starting compound can be used;

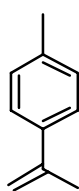


The ketone group must be protected as the ketal form (a), or must be replaced by the methylene group (b).

route a



route b



followed by O<sub>3</sub>