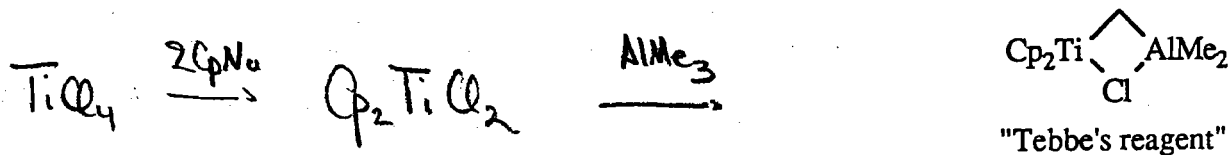
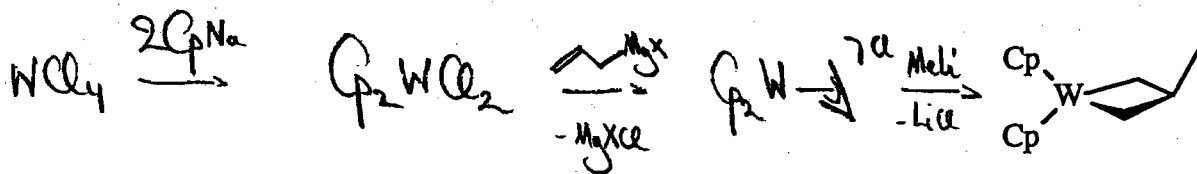
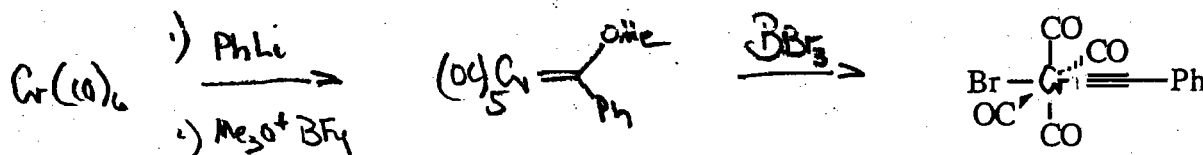
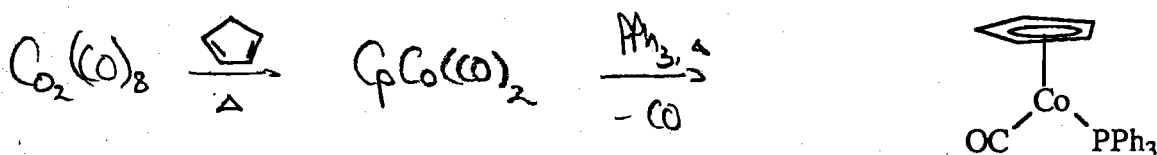
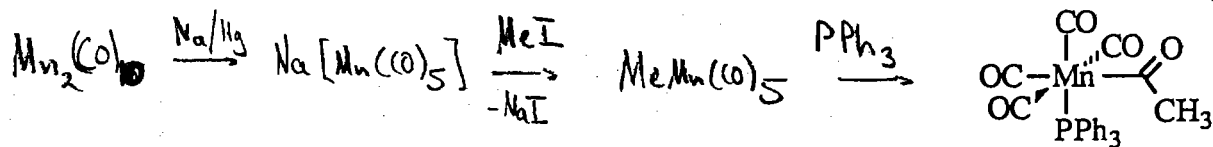


Using only readily available starting materials (i.e. metals, metal halides, or homoleptic carbonyls as well as organic molecules (including lithium alkyls), give plausible synthetic routes to the following organometallic molecules.



Predict the products of the following 2-step transformations, drawing structures of the resulting molecules at both stages. All reactions are carried out in THF (tetrahydrofuran) solution.

