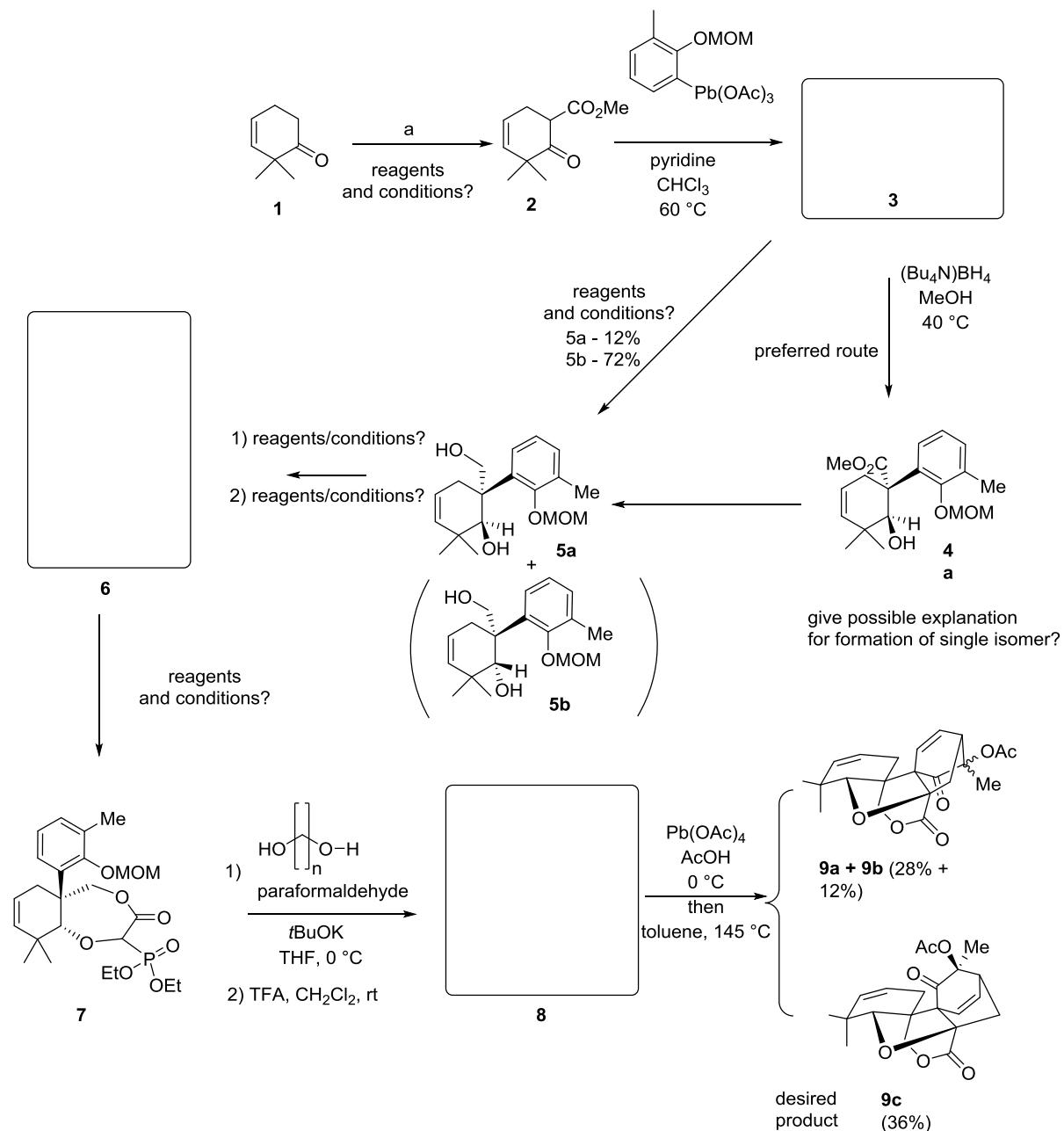
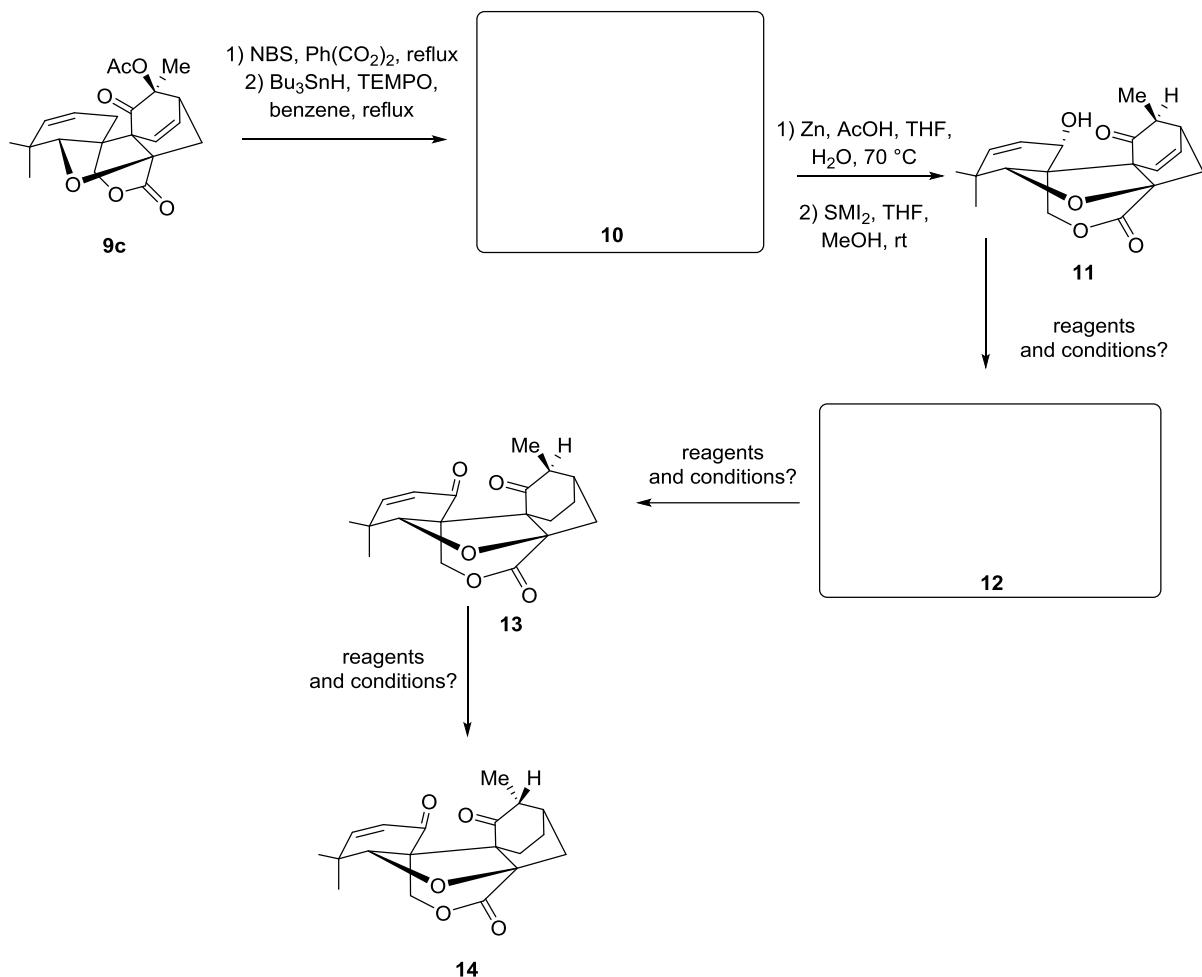


Problem Sheet June 2015

Total synthesis

Please give all missing reagents, conditions and structures, as well as mechanisms for each step.





Please give the product, name and mechanism of the following reactions:

