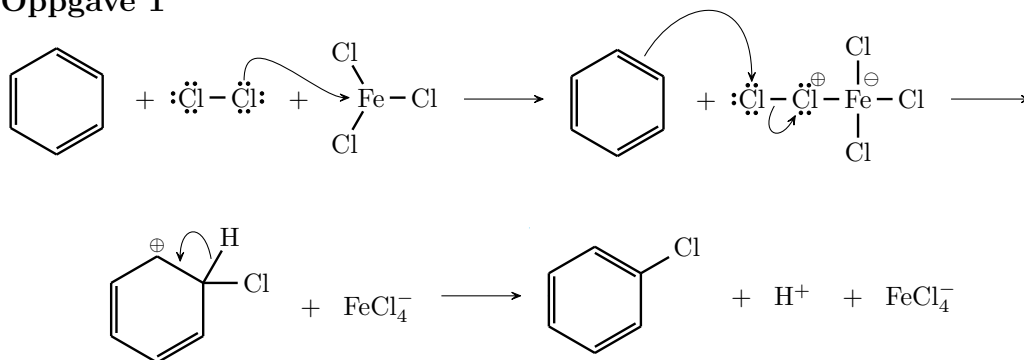
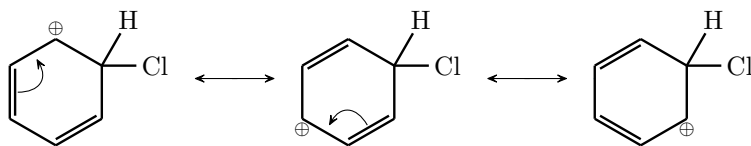


Øving 11

Oppgave 1



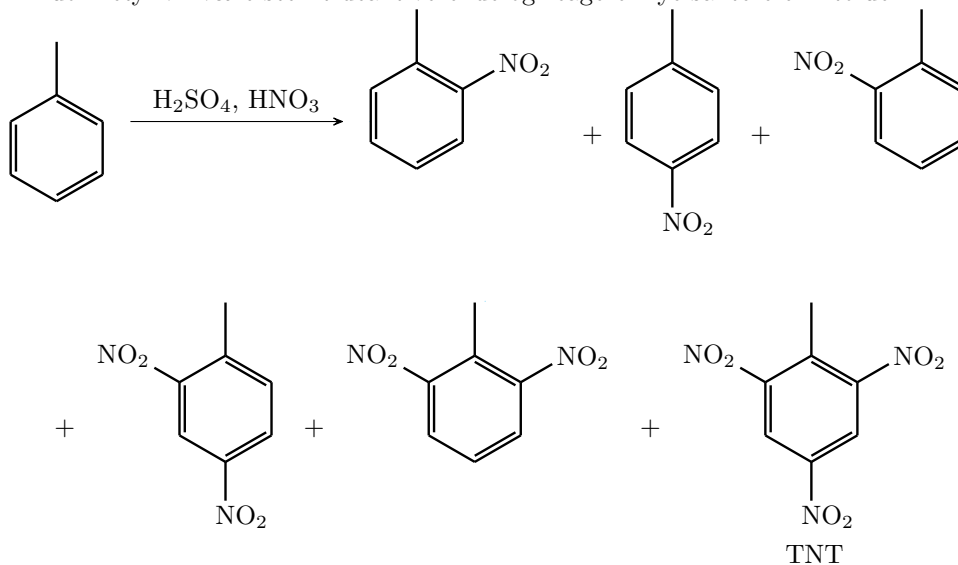
Oppgave 2



Oppgave 3

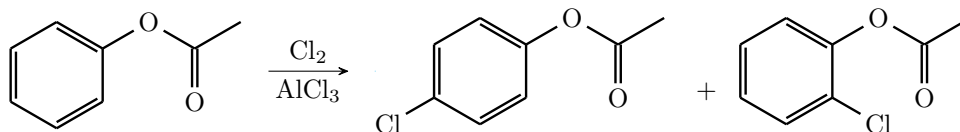
a)

Trifluormetyl vil være sterkt deaktiverende og reagere mye saktere enn toluen.



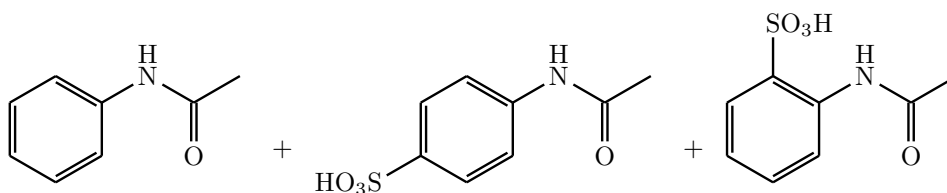
b)

Fenylacetat vil være moderat aktivert og reagere fortere enn metylbenzoat:

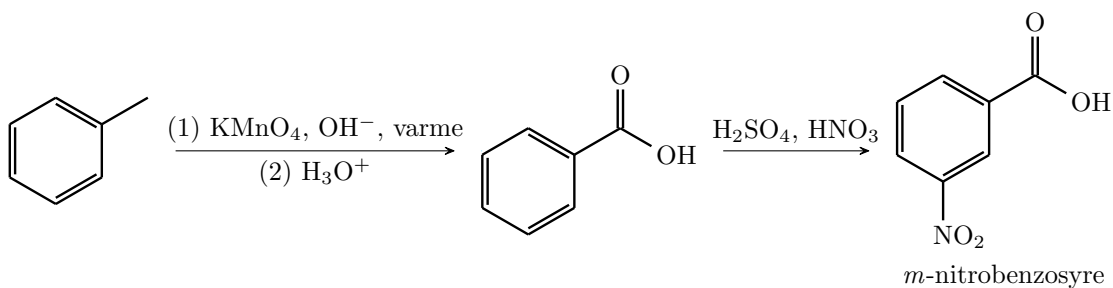


c)

Amider er aktiverende og vil reagere raskere enn nitret benzen som er deaktivert:

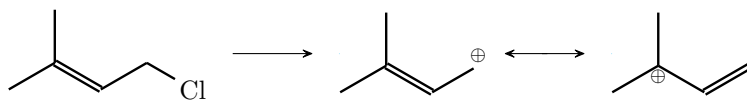


Oppgave 4



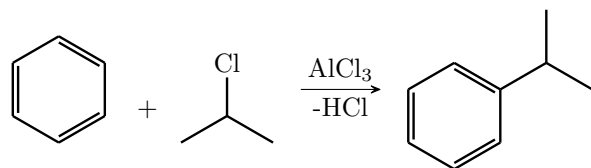
Oppgave 5

Stoff **1** ville dannet et primært karbokation ved en S_N1 reaksjon, som er veldig ustabilt og vil derfor ikke reagere via S_N1 mekanisme. Stoff **2** har ville også dannet et primært karbokation, men dette vil blir kompensert av den konjugerte dobbeltbindingen ved resonans til et mer stabilt tertiært karbokation og derfor være stabilt nok til å kunne reagere via S_N1 mekanisme.

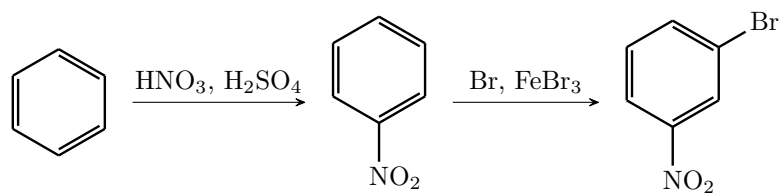


Oppgave 6

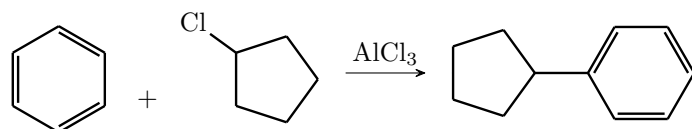
a)



b)

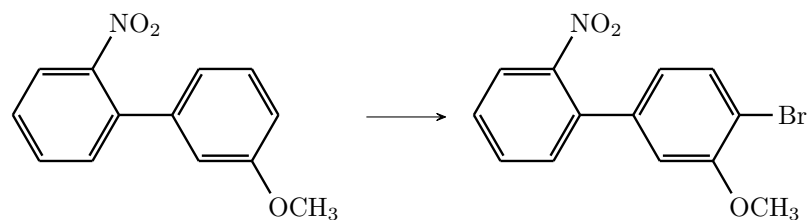


c)

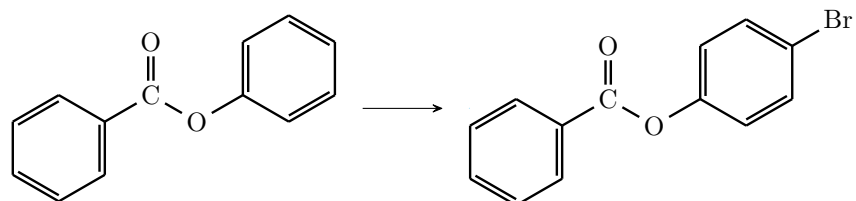


Oppgave 7

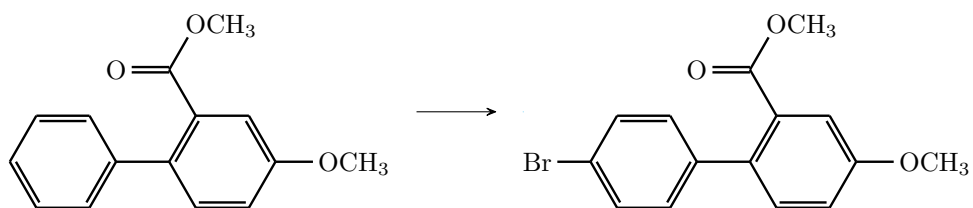
a)



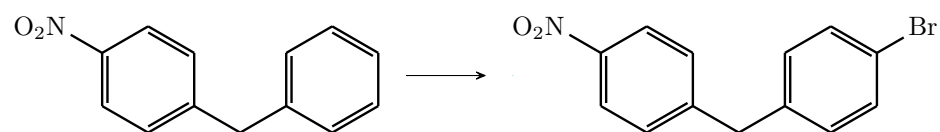
b)



c)

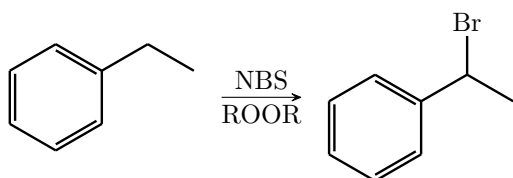


d)

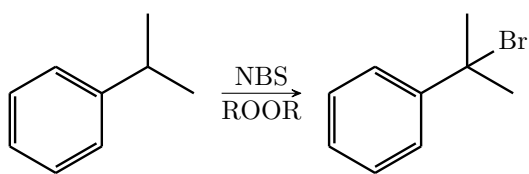


Oppgave 8

a)



b)



Oppgave 9

